AKAI PROFESSIONAL

MPC X / X SE
MPC LIVE / LIVE II
MPC ONE / ONE+
MPC KEY 61 / KEY 37

User Guide

English

Manual Version v3.6

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Introduction

Welcome to MPC 3, the latest advancement from Akai Professional for standalone MPC hardware.

This user guide explains how to create music using the MPC 3 operating system on first generation standalone MPC hardware, including: **MPC X**, **MPC X Special Edition, MPC Live**, **MPC Live II**, **MPC One**, **MPC One+**, **MPC Key 61**, and **MPC Key 37**.

Please note this manual does not cover the following:

- **MPC Studio mk2** and **MPC Touch**, which are not supported on MPC 3.
- **MPC Live III**, which has a separate User Guide.
- Using MPC products with an LCD screen with the MPC software application.
- Using your MPC 3 supported hardware as a controller for the MPC Software.

For these products, or for information on MPC 2 operating systems, refer to the previous User Guides. To view these user guides, click the **Help** menu in the MPC software, select **MPC Help**, and select an option.

Support

For the latest information about this product (documentation, technical specifications, system requirements, compatibility information, etc.) and product registration, visit **akaipro.com**.

For additional product support, visit **support.akaipro.com**.

About This User Guide

This manual should help you get familiar with using your **MPC X**, **MPC X Special Edition, MPC Live**, **MPC Live II**, **MPC One**, **MPC One+**, **MPC Key 61**, or **MPC Key 37** (from here on, "**MPC hardware**" unless otherwise noted) using the MPC 3 standalone operating system. For consistency, the terminology throughout is based on the MPC nomenclature. We also used specific formatting to indicate particular topics of significance:

Important/**Note**/**Tip**: Important or helpful information on a given topic.

Names of buttons, controls, parameters, settings, and other options are written in **bold** characters throughout the manual.

Examples: Press the **Play** button.

Turn **Knob 4**.

Tap the **Mute** icon.

The **Velocity** ranges from **0** to **127**.

Set the **Sample Play** selector to **One Shot**.

Tap **BPM**, and then use the numeric keypad to enter a **120** as the tempo.

Some parts of this manual refer to other relevant chapters or sections, which are cited in ***bold, italic blue*** characters. Click the text to skip immediately to that section.

Examples: Read the ***Important Notes*** section before proceeding.

See ***Operation*** > ***General Features*** > ***Menu*** > ***Sync*** for more information.

To learn more about using send effects, see ***General Features*** > ***Effects*** > ***Send/Return Effects***.

Important Notes

Read the included safety & warranty manual before using your MPC hardware.

Before getting started and connecting devices to your MPC hardware or turning the hardware on/off, make sure all devices are switched off.

MPC2 vs. MPC3

The transition from MPC2 to MPC3 introduces significant architectural changes, most notably the unification of tracks and programs into a single track container. This redesign aims to streamline and accelerate workflow, but also results in MPC2 projects not being loadable into MPC3 with identical behavior. Because of this, we strongly recommend saving a **new copy** of all MPC2 projects before importing to preserve editing capabilities.

Upon loading an MPC2 project, MPC3 will display a Project Import dialog. By default, the **Import** field is set to **All Sequences**. Using this method:

- MPC3 will attempt to import all sequences and tracks from the MPC2 project.
- If a single track was assigned to a single program in MPC2, MPC3 will create a corresponding track of the same type as the original program.
- If multiple tracks were assigned to the same program in MPC2, MPC3 will create one primary track of the same type as the program, and subsequent tracks will be converted to MIDI tracks with their **Send To** field pointing to the primary track.

Alternatively, you can set the Import field to **Selected Sequences Import**. Using this method:

- A list of sequences from the source MPC2 project will be displayed, and you can tick the sequences you wish to import into MPC3.
- The selected sequences will load into their original locations within the sequence list.

Updates in v3.6

MPC Pro Pack

MPC v3.6 provides support for the MPC Pro Pack. This is included automatically for all users of MPC Live III and can be purchased as an upgrade for users of other MPC standalone hardware that supports MPC3.

> **To purchase the MPC Pro Pack,** visit **thempcstore.com** / **akaipro.com**. You can unlock the Pro Pack on up to three supported devices.
>
> **To unlock the Pro Pack,** use the **Activations** tab of the Preferences.

The MPC Pro Pack includes:

- MPC Clip Launch: New Clip Matrix and Clip Edit modes.
- Advanced CV Track Edit.
- Advanced Q-Link Edit, including Envelope Follower and LFO.
- Super Warp algorithm
- MPC3 Pro Pack Plugins: AIR Fabric Select, AIR Visual EQ4, AIR Reverb Pro, AIR Utility
- Import Ableton Live Projects

See ***Addenda > MPC Pro Pack*** to learn more about these features.

Project Time Signature Support

You can now change the time signature of your MPC project to suit your creative needs. Changing the project time signature updates all sequences to use the new setting. Sequences will retain their length in bars. If Clip workflow is enabled, clips will retain their length in pulses.

Project Time signatures can be changed in ***Main Mode***. You can also set the default time signature in the ***Project Defaults*** section of the **Preferences**.

Track Edit Enhancements

MPC now includes an enhanced Track Edit mode for Drum Tracks, including:

- A powerful **Drum Articulation Engine**, allowing you access to typical drum articulations and rudiments like flams, paradiddles, and dynamic drum phrases which can be added to individual pads. You can also trigger and record different articulations using ***16 Level***, and Modifiers (editable in ***List Edit Mode***) include an Articulation parameter.
- A 32-cell modulation matrix, for extensive routing options for complex modulation setups.
- New modulation sources, including an upgraded dual LFO, a Note Counter, dual Ramps, and Global and Per-Voice Drift LFOs.
- The **Layer Play Offset** parameter lets you shift a framed sample window—defined by **Start**, **End**, and **Loop** points—across the sample without altering their relative positions.
- The **Global** tab now includes a **Pad Tuning** parameter, altering the tuning of all layers on that pad.

Both Drums and Keygroups have the following additional enhancements:

- The **Modulation Matrix** now supports a hierarchical menu of sources and targets.
- **Layer Play – Crossfade:** This new setting allows you to crossfade between sample layers using modulation sources like Envelopes and LFOs in Drum and Keygroup tracks, enabling wave-sequencing or vector synthesis-like effects.
- **Random Seeds:** When **Layer Play** is set to **Random**, the **Random Seed** field displays a value between **1**–**999,999**. This number can be copied and reused to reproduce the same random sequence across sessions or projects.

See ***Operation*** > ***Modes*** > ***Track Edit Mode*** > ***Drum Tracks*** or ***Keygroup Tracks*** to learn more.

MIDI Improvements

You can now configure individual pads within a Drum Track to send specific MIDI notes for triggering external gear, lighting, or video sources.

We've also expanded the MPC sequencer's MIDI capabilities with full per-event channel recording and routing. This update unlocks more flexible workflows for multi-timbral instruments and external MIDI gear.

Other Improvements

You can now input automation bounded by the length of a step in the ***Step Sequencer***.

When using **Pad Copy**, pad colors are now copied.

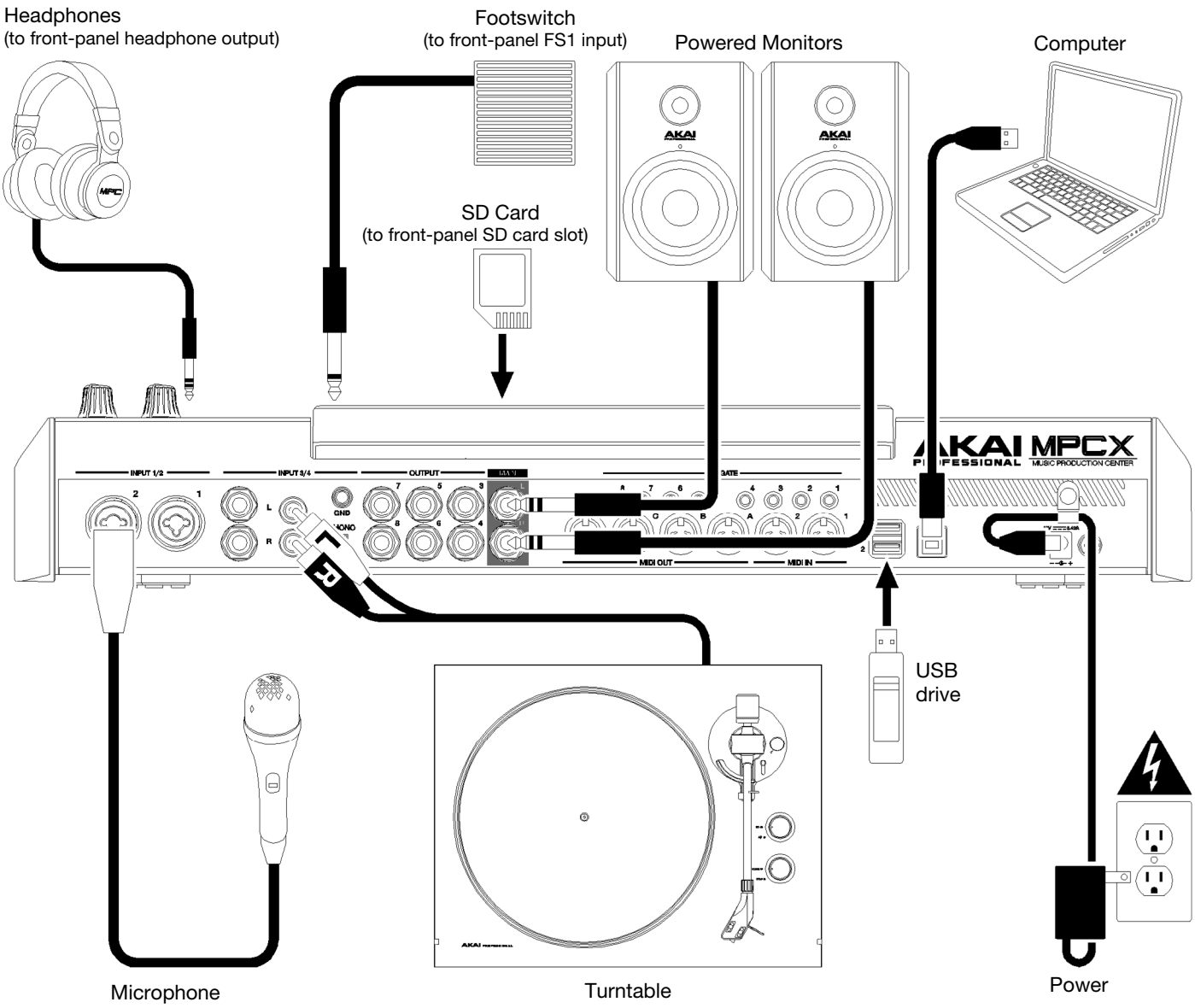
In **Main Mode**, tapping and holding the **Sequence** field opens a new pop-up with the following settings:

Use the **Name** field to rename the Sequence.

Use the **Auto-Select Track** field to specify which track is selected when switching sequences. Select **None** to keep the current track selected when changing sequences, or select a specific track from your project.

Setup

Here is just an example of how to use MPC X in your setup. Items not listed under ***Introduction*** > ***Box Contents*** of your included Quickstart Guide are sold separately.



Remember to remove the protective film from your MPC hardware touchscreen!

To use your MPC hardware in Standalone Mode, just connect it to a power outlet using the included power adapter, and power it on!

Note: We highly recommend checking **akaipro.com** for any available updates to the MPC software/firmware and/or drivers. You can also connect your device to ***Wi-Fi*** and check for updates in the ***Preferences*** menu.

Tutorial

For those new to MPC, this chapter should familiarize you with some of the basic features and modes. We'll create a short song to illustrate some of the most important features. To get the most out of this chapter, we recommend reproducing each of the described steps in order.

For in-depth information on the various features and modes in MPC3, proceed to the ***Operation*** chapter.

For a breakdown of all the controls on your MPC hardware, proceed to the ***Hardware Features*** chapter.

You can also access video tutorials from the Akai Professional YouTube page at **youtube.com/AkaiProVideo**.

Starting Up

When you first power on your MPC hardware, you will be presented with a welcome screen. Tap **Next** to continue.

Next, a help screen will appear with a QR code that links to this User Guide. Tap **Got It** to continue. You can also access this at any time from the ***Toolbar*** in the Menu.

You will then be prompted to connect your MPC hardware to the internet to check for the latest software update. We recommend always staying up-to-date with the latest software version. Tap **Let's Go** to dismiss this message. If you no longer want to see this message, tap the **Don't show this again** box before proceeding.

Your MPC will then display a list of demo projects to choose from. These projects cover a range of styles and are included to highlight the wide array of sounds available with MPC.

To begin this tutorial, we will instead start by selecting **New Project** at the bottom of the screen. In MPC 3, this will automatically load a small factory project by default. The configuration of this project varies depending on the type of MPC device in use.

For MPCs without a keyboard (MPC X/X SE, Live/Live II, One/One+)**:**

- **Drum Track Preset:** A single drum track with samples loaded on Pad Bank A.
- **Q-Link Screen Layout:** Configured to control settings and features in Main Mode.
- **Effects:** AIR Reverb and AIR Delay are preloaded on Returns 1 and 2.

MPC Key 61:

- **Drum Track Preset:** Same as MPCs without a keyboard.
- **Plugin Instrument Tracks:** Four plugin instrument tracks are added before the drum track.
- **Effects:** AIR Reverb and AIR Delay are preloaded on Returns 1 and 2.

MPC Key 37:

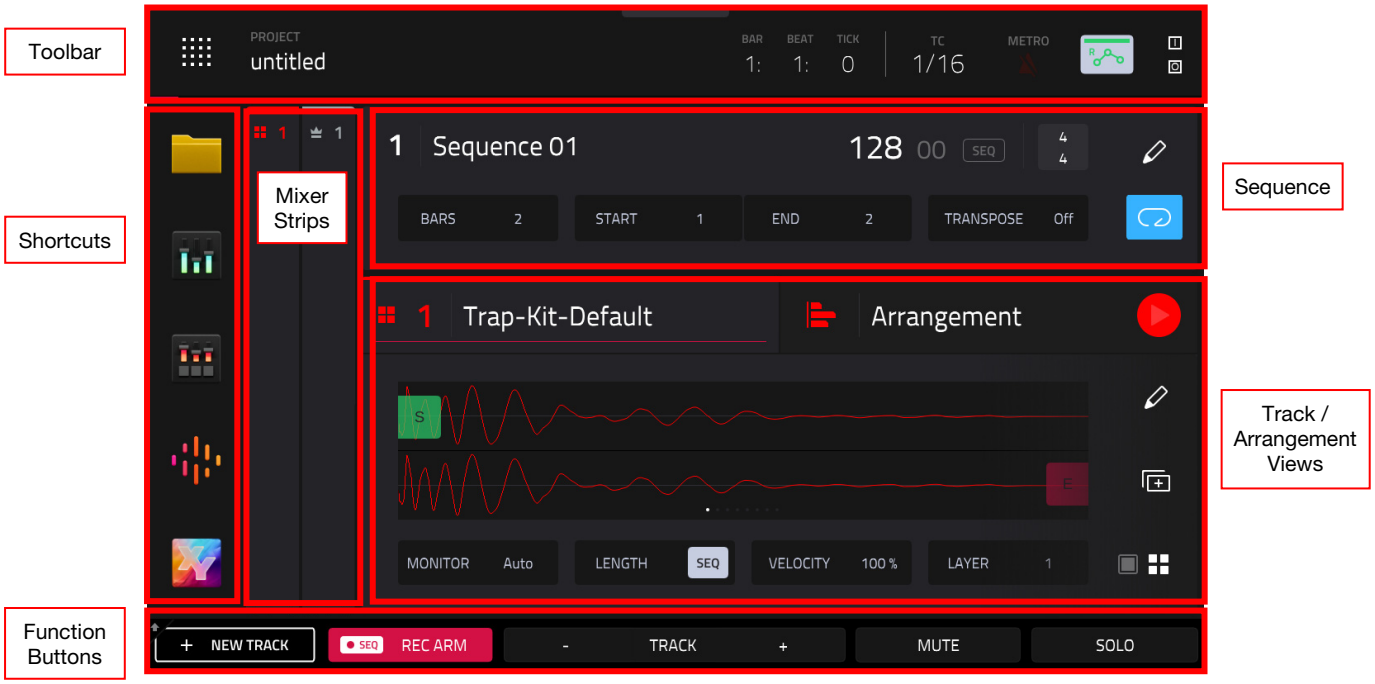
- **Drum Track Preset:** Same as MPCs without a keyboard.
- **Plugin Instrument Tracks:** A single plugin instrument track is added before the drum track.
- **Effects:** AIR Reverb and AIR Delay are preloaded on Returns 1 and 2.

Recording Tracks with Main Mode

Main Mode Overview

Your project will begin in **Main Mode**, which provides visual feedback and fast access to many of MPC's key features.

The image below shows an overview of Main Mode. You can view more information about all the features mentioned below in the ***Main Mode*** chapter later in this User Guide. For now, this will help familiarize you with the different parts of this page as you progress through the tutorial.



Begin with the **Track / Arrangement View**. When the new project is loaded, the **Track** view will be selected. This allows you to navigate between your project's available tracks.

Tap the track header and make sure the drum track is selected (MPC Key 61 users will want to scroll to Track 5, and MPC Key 37 users will want to scroll to Track 2). Once selected, you can hit each pad to hear the assigned sample and view a simple waveform editor, where you can adjust sample start and end points. Double-tapping this area will take you directly to ***Track Edit Mode***, where you can apply more advanced editing techniques.

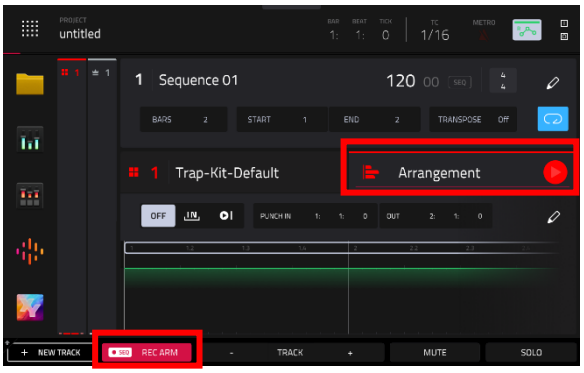
Next, tap the **Arrangement** header to show the Arrangement view. Here, you can see all the MIDI or audio events recorded on the selected track. Double-tapping this area will open the full ***Grid View***, where you can edit your MIDI notes or audio events for the selected track.

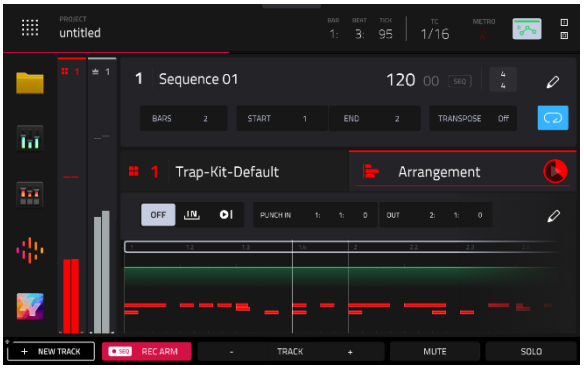
Recording a Drum Sequence

Using these areas, and the pre-loaded drum kit track, let's start by recording a basic drum sequence:

1. Make sure the ● **SEQ REC ARM** button at the bottom of the screen is enabled, and then press the **REC** button on your MPC hardware to arm the arrangement for recording.
2. Select the **Arrangement** view by tapping the header.
3. Press the **Play** button to start the actual recording. You will hear the metronome count-in for one measure before the recording starts. We recommend recording only one sound (pad) at a time, especially if you're not familiar with playing drums on the pads.
4. Play a simple hi-hat pattern. The note events you just recorded will automatically be placed in the arrangement. The initial measure length is two bars. After the two bars, the recording will automatically activate Overdub; the sequence will play again from the beginning and keeps looping, allowing you to record further notes. Don't stop the recording!

   Tip: Try spicing up your recorded pattern by enabling **Note Repeat** on your MPC hardware. Press and hold this button, and then tap to select **1/16** and **T** at the bottom of the screen. Now try adding some triplet hi-hat notes to your current sequence as you record.
5. Next, play a kick drum part, and then a snare drum part.
6. When you're done recording, press the **Stop** button.





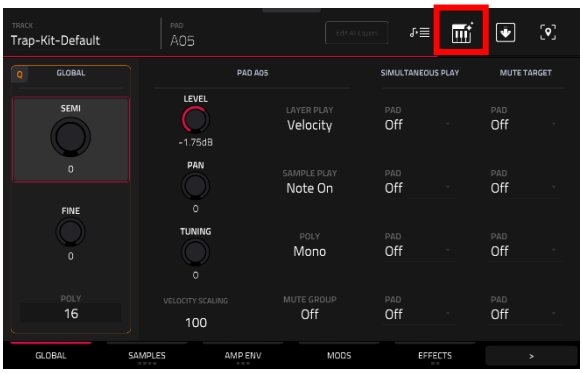
If you start recording again on this sequence, keep in mind that the pads you play in your new recording will replace existing notes played with the same pads. To prevent this, press the **OVERDUB** button before recording instead of the **REC** button. Overdub lets you record additional note events over the existing sequence.

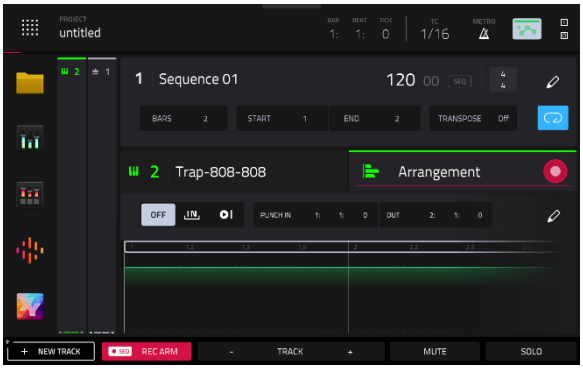
If you made a mistake while recording, you can simply press **UNDO** on your hardware to undo the last event (or events) recorded if playback is stopped. If you are currently recording, the **UNDO** button will flash, and pressing it will erase **all** events from that recording (i.e., since **PLAY** or **PLAY START** was pressed).

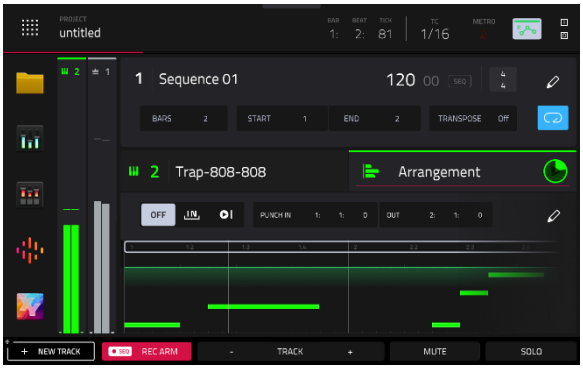
Creating and Recording a Keygroup Track

With a basic drum part down, you can now start adding to your sequence. **Pad 5** in the default drum kit features an 808 sound. We can use this sound to create a pitched bass sound by turning it into a **Keygroup** track. Keygroup tracks take a sample and allow you to play it chromatically with your MPC pads (or a MIDI keyboard).

1. With the default drum track still selected, press **Pad 5** on your MPC hardware to select it. Then, double-tap the sample area in the Track View of Main Mode. This will take you directly to ***Track Edit*** mode.
2. Tap the **keyboard+** icon at the top of the screen to instantly turn this 808 sample into a **Keygroup Track**.
3. Press **Main** on your MPC hardware to return to Main Mode, and then select your new keygroup track. It will be added at the end of your current tracks.
4. Your MPC hardware's pads will now be in Pad Perform mode as well. This will allow you to play the sample melodically.
5. Make sure the ● **SEQ REC ARM** button at the bottom of the screen is enabled, and then press the **REC** button on your MPC hardware to arm the arrangement for recording.
6. Press **Play** to begin playback and record a bass part using your MPC pads and the 808 sound.



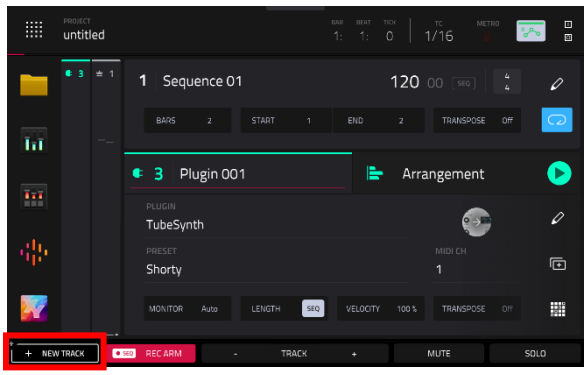


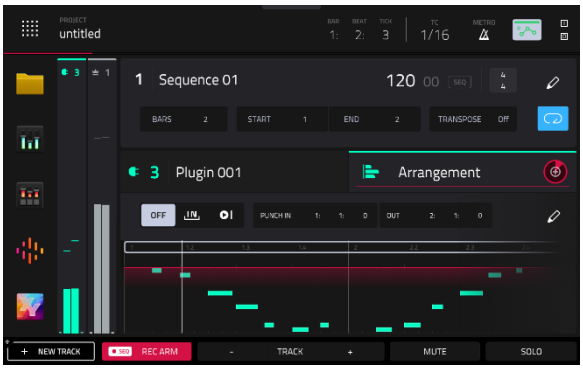


Adding and Recording with a Plugin Track

Let's try adding another new track to the sequence. This time, we'll use one of MPC's built-in plugin instruments to add a melodic line.

1. In Main Mode, tap **+ New Track** at the bottom-left corner of the screen.
2. A window will appear where you can select what type of track you want to add. Select **Plugin** to add a new plugin instrument track at the end of your current tracks.
3. Use the **Plugin** field to select the desired plugin, and then use the **Preset** field to select a preset.
4. Once you are ready, make sure the ● **SEQ REC ARM** button is enabled, and then press the **REC** button to arm the arrangement for recording.
5. Press **Play** to begin playback and record a new melodic part on your MPC pads.





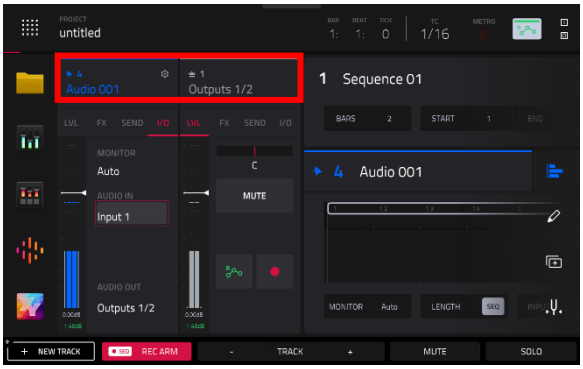
Working with Audio Tracks

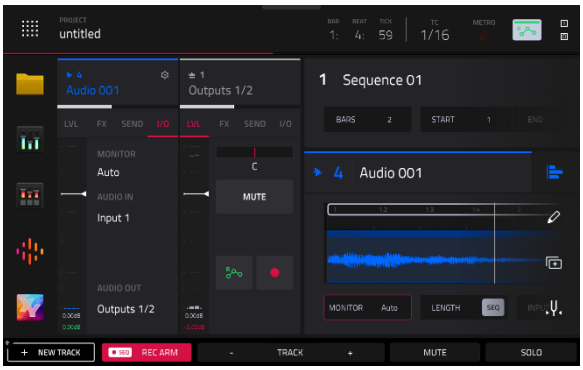
So far, the tracks we have used and added have all been MIDI-based tracks. You can also use Audio tracks in your project to add recorded sounds in different ways. In the following sections, we will introduce recording an audio sample from an external instrument and adding samples using the Browser.

To begin, press **Main** to go back to Main Mode. Tap **+ New Track** at the bottom-left corner of the screen, and then select **Audio**. A new audio track will be added to the project.

Recording an External Instrument

To record audio from an external instrument or microphone:





1. Select the audio track in the Track View area, and then tap the icons at the top of the **Channel Strips** to expand them.
2. Tap to select the **I/O** tab of the track channel strip.
3. Tap the **Monitor** field to select it, and then turn the **data dial** on your MPC hardware until **Auto** is selected. With the track armed for recording, If you start playing your instrument, you should now hear it and see the signal coming into the track. This will allow you to hear your input when the track is armed for recording.
4. Connect a line-level audio source to the 1/4" (6.35 mm) **input/inputs** on your MPC hardware's rear panel, and set the **Line/Phono** selector to **Line** (MPC X, MPC Live, MPC Live II), or set the **Inst/Line** selector to **Line** (MPC Key 61). Then, make sure the **Audio In** field is set to the input or inputs where you've connected your instrument.
5. Press **Rec** to arm the arrangement for recording.
6. If you start playing your instrument, you should now hear it and see the signal coming into the track. As needed, turn the **3/4 Rec Gain** (MPC X), **Rec Vol** (MPC Live, MPC Live II, MPC One, MPC Key 37), or **Gain** (MPC Key 61) knob to set the input level while playing your audio source. Make sure it does not exceed the maximum level (the meter should not be "peaking" constantly).
7. Press **Play** or **Play Start** to start recording. Now play your audio source! You should hear your existing sequence playing in the background.

   To stop recording, press **Stop**.

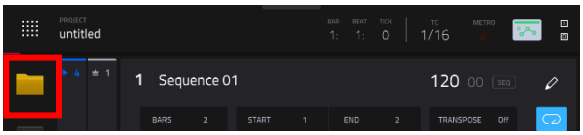
Later in this manual, you can also learn about recording using the ***Sampler*** or ***Looper***. You can also apply these same principles to recording audio directly into ***Drum Tracks***.

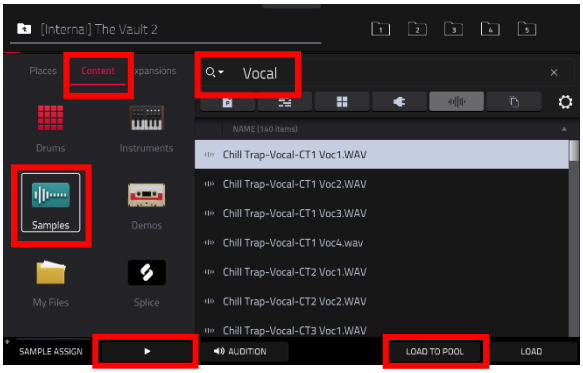
Loading Sounds with the Browser

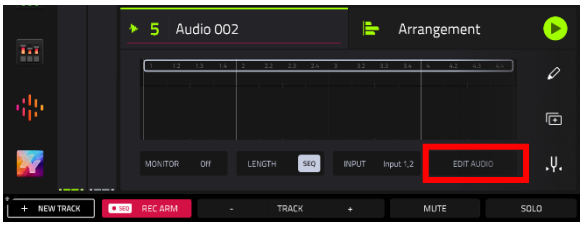
You can also browse and add previously recorded samples, either those included with MPC or your own, to an audio track.

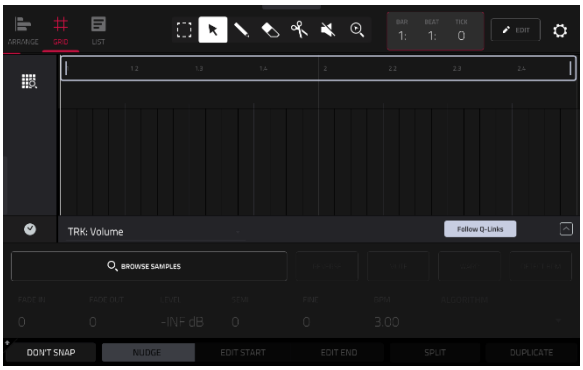
To add a recorded audio sample to an audio track:

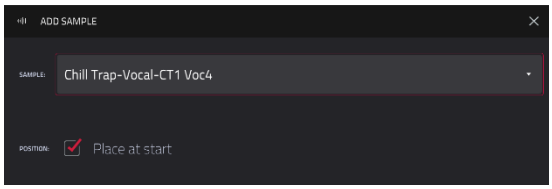
1. From Main Mode, tap the **file folder** icon in the Shortcuts panel on the left side of the screen to open the ***Browser***. You can also do this by pressing the **Menu** button and then tapping **Browser**.
2. On the left side of the Browser screen, tap the **Content** header. This will allow you to browse files by content. Tap **Samples** to show the list of included audio samples with your MPC.
3. Let's search for a vocal sample to add to our loop. Tap the **Search** bar and use the keyboard that appears on screen to search for the key word "Vocal." This will display included samples that are marked as vocal samples.
4. As you scroll through the list, either by swiping up or down or using the **encoder** on your MPC hardware, you can preview a sample by tapping and holding the **Play** icon (▶). You can also adjust preview setting by tapping **Audition** at the bottom of the screen, and then using the window that appears to adjust the preview volume, enable auto-audition, and more.
5. Once you have found a sample or samples you like, tap the **Load to Pool** button to add it to the project sample pool.
6. Press **Main** to return to Main Mode. In the Track section of your audio track, tap the **Edit Audio** button. This will open ***Grid View***, where you can add and edit samples in your audio track.
7. Tap the **Browse Samples** button to open the **Add Sample** window, and then use the **Sample** field to select a sample you loaded. When the **Place at start** option is checked, this sample will be added at the start of your sequence. You can uncheck this to specify a different location, but you can also freely move and edit the sample after adding it.
8. Once your sample has been added, see how it sounds as part of your sequence. You can use the Grid View editing tools to edit the start and end points of the sample, trim it, move it, apply fades, and even reverse it with the touch of a button. Try experimenting with some simple edits to your sample!





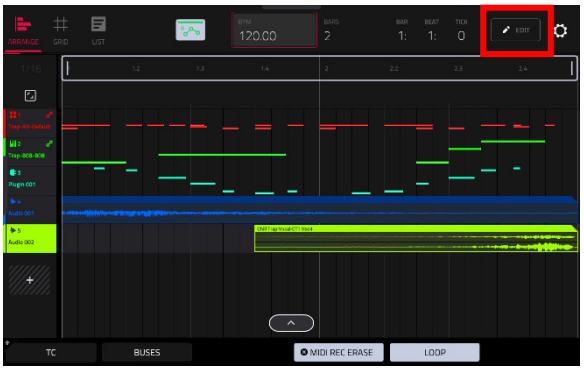






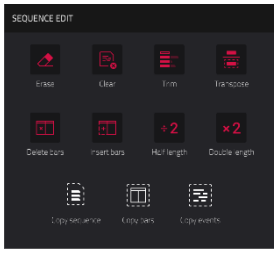
Working with the Linear Arranger

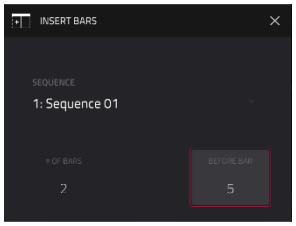
To take your track further, you can use ***Arrange Mode*** to record, edit, and arrange your sequences on a DAW-style linear timeline. Now that you've recorded a few tracks, open Arrange Mode by pressing **Menu** and then tapping **Arrange**.

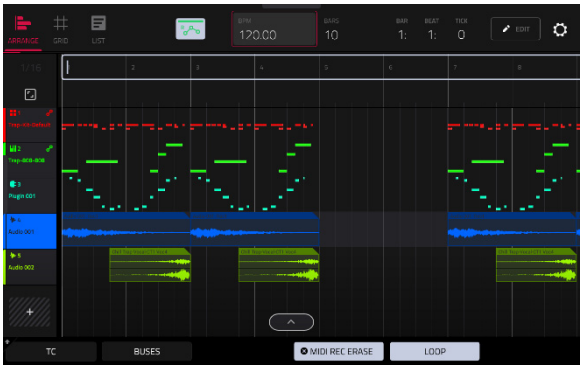


Let's start by using the Arrange sequence editing tools to expand the length of our sequence.

1. Tap the **pencil Edit** button at the top of the Arrange screen to open the Sequence Edit window.
2. Tap the **Double length** button to instantly double the length of your sequence, including all recorded events. In this example, the sequence has been doubled from 2 bars to 4 bars. We will repeat this process again to double the sequence from 4 bars to 8 bars.
3. Next, let's try adding a new section in between these bars. Tap the **pencil Edit** button again, and this time select **Insert Bars**. Set the **# of Bars** field to **2**, set the **Before Bar** field to **5**, and then tap **Do It**. This will add two blank bars between the two four-bar phrases.

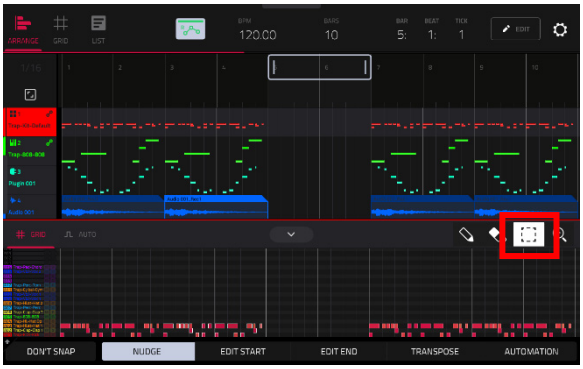






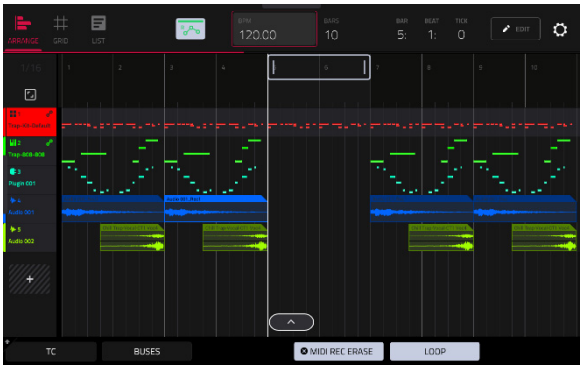
Next, let's fill in these empty bars in two ways. Perhaps you want to continue the same drum beat over these two bars, but change the melody. We can start by copying over notes from our drum track into this section. You can do this using the **Copy Events** function in the Sequence Edit window, but it is also easily accomplished using the Arrangement Track Editor.

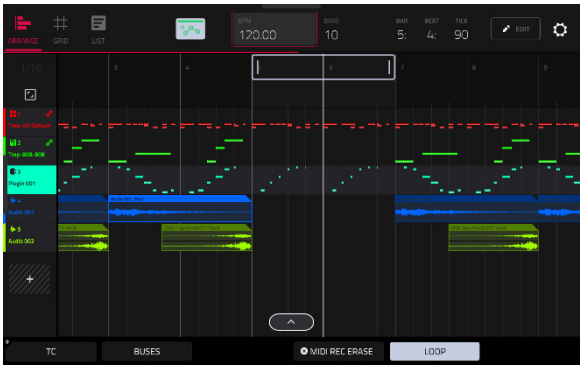
1. Tap your drum track to select it.
2. At the bottom of the Arrange window, tap the up arrow (^) to expand the Arrangement Track Editor. This is a fully featured grid editor (the same as ***Grid View*** mode) where you can add, remove, and edit note events.
3. Tap the **box icon** to use selection mode.
4. Tap and drag your finger over the recorded drum notes in the two bars before your empty bars.
5. Once selected, press and hold **Shift** on your MPC hardware, and then tap **Duplicate**. This will instantly duplicate the selected events on the next available beat marker. As needed, tap **Nudge** at the bottom of the screen to enable note nudging, and then turn the **data dial** on your MPC hardware to adjust the position of the duplicated notes so they start on the downbeat of the bar.



You can also record into a section of the arrangement with a new performance.

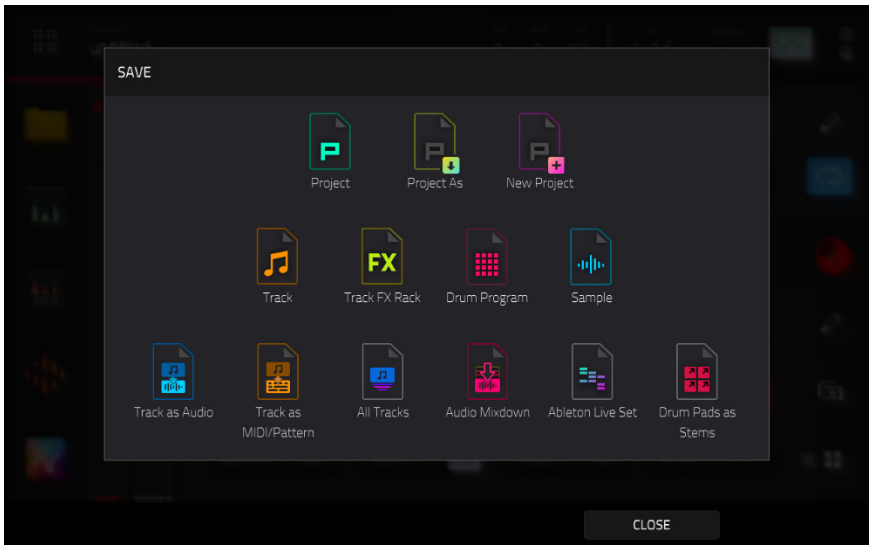
1. Tap the **Loop** button at the bottom of the screen to activate loop.
2. Set the **Loop Start** and **Loop End** points by tapping and dragging the beginning and end of the loop region in the timeline. Tapping and dragging in the middle of the loop region moves both the Loop Start and Loop End points at the same time. Move the loop so it covers the two new bars we created.
3. Select the track where you want to record by tapping the track header on the left side of the screen. If the ● **SEQ REC ARM** button was already enabled in ***Main Mode***, this will automatically enable this track for recording. You can also double-tap the track header to bring up the Track Settings window, and then set the **Rec Arm** field to **On**.
4. Press **REC** to arm recording and then **Play** to begin recording. The recording will begin at the Loop Start point, and once it reaches the Loop End Point, will switch to Overdubbing mode.
5. Record a new melody using the MPC pads.



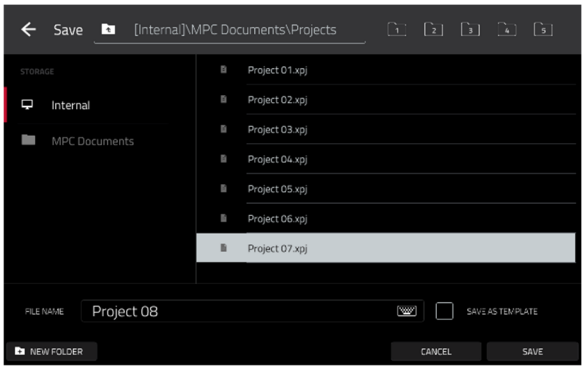


Saving Your Work

Now would be a good time to save your project. Press **Menu** to show the ***Menu***, and tap the **Save** at the bottom of the screen to open the **Save** window.



The options displayed in this window may differ based on the type of track you have selected. For now, simply tap the **Project As** button to save your project as a new file. A new save window will appear where you can choose your save location and name your file.



To select the storage device you want to view, tap it in the **Storage** column on the left.

> **Internal** is the internal drive of your MPC hardware.
>
> **MPC Documents** is a shortcut to the **MPC Documents** folder on the internal drive of your MPC hardware.
>
> If you have storage devices connected to USB ports or SD card slot of your MPC hardware, they will appear in this column, as well.

Double-tap a folder to enter it.

Tap **New Folder** to create a new folder. Use the virtual keyboard that appears to enter a name, and then tap **Do It**. You will immediately enter the new folder.

Tap the **folder/↥ icon** in the upper-left corner to move up one folder level.

Tap the **File Name** field at the bottom of the screen to name the file using the virtual keyboard that appears.

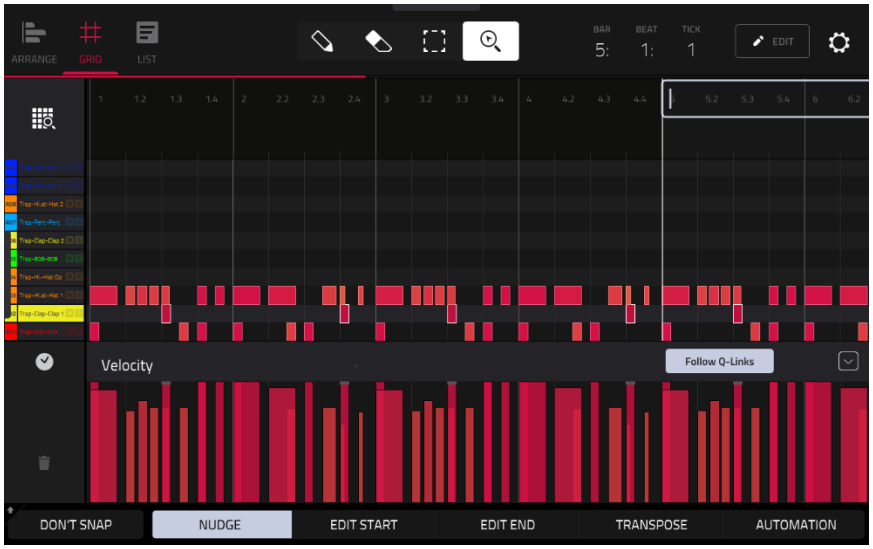
Tap **Save** to save the file.

Tap **Cancel** to cancel and return to the Menu. Alternatively, tap the **← icon** in the upper-left corner.

Editing Note Events

As you record, you may want to make more in-depth edits to your note events or recorded audio. In the grid, you can see your recorded notes (or note events) as a sequence.

To enter the Grid View, press **Menu**, and then tap **Grid View**.



In the ***Grid View***, you can do any of the following:

Tap the **magnifying-glass icon** in the upper-right corner to enable zoom control. Then, in the grid, spread two fingers apart or pinch two fingers together. You can do this for each axis, horizontal or vertical.

Tap the **grid-and-magnifying-glass icon** in the lower-left corner to automatically set the grid to view the active area, up to three pad banks and 32 bars.

Press **Undo** to undo your last action. Press **Shift** and **Undo**/**Redo** to redo the last action you undid.

To enter a note, tap the **pencil icon** at the top of the screen. Then, in the grid, tap a square.

To delete a note, tap the **eraser icon** at the top of the screen. Then, in the grid, tap a note.

To select a single note, tap the **select box** at the top of the screen. Then, in the grid, tap the note.

To select all notes for a pad, press the desired **pad**. (This can be enabled or disabled using the **Hitting Pad Selects All Events** option in the Grid Settings, accessed by tapping the **gear icon** in the upper-right corner of the screen.)

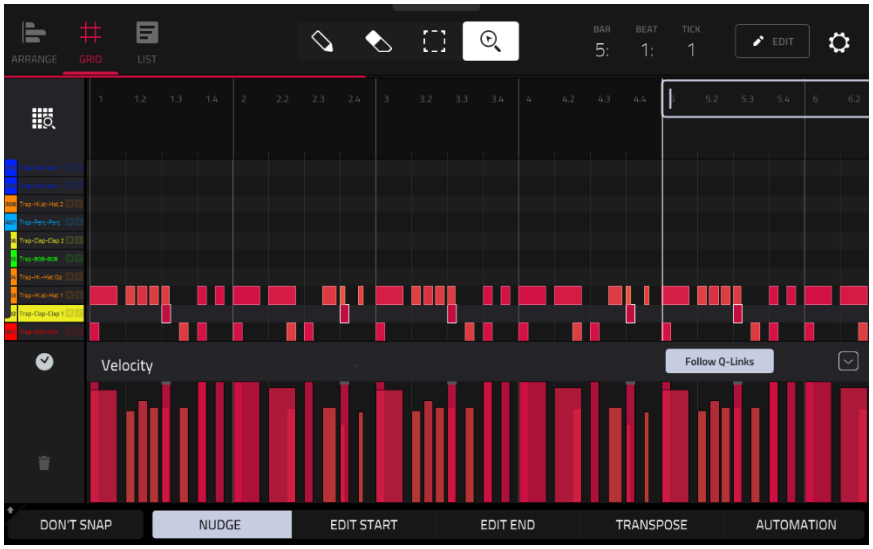
To move the selected notes, tap **Nudge** at the bottom of the screen, and then use the **data dial** or **–/+** buttons to shift the notes left or right. By default, you can position notes only by quantization values defined by the **Time Correct** value (learn about this feature in ***Operation > General Features > Timing Correct (TC)***).

To move the selected notes without restricting ("snapping") **them to the quantization grid**, tap **Don't Snap** in the lower-left corner of the screen, and then use the **data dial** or **–/+** buttons to shift the notes. By default, each nudge is equivalent to one tick.

To adjust the start point or end point of the selected notes (without changing their position), tap **Edit Start** or **Edit End** at the bottom of the screen, and then use the **data dial** or **–/+** buttons.

To transpose the selected notes up or down, tap **Transpose** at the bottom of the screen, and then use the **data dial** or **–/+** buttons.

To open the Timing Correct window, tap the **clock icon** next to the automation parameter.



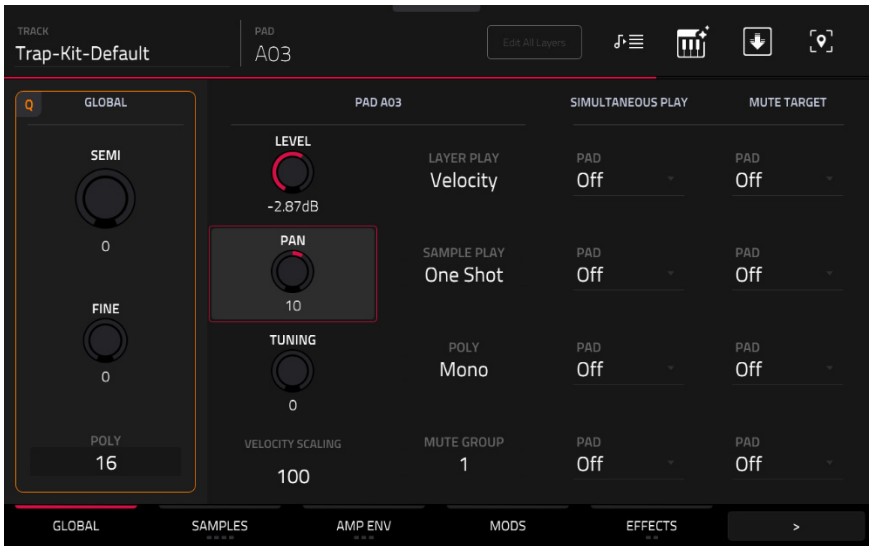
To show or hide the automation lane, tap the **up arrow** (^) button in the lower-right corner of the screen to show the velocity lane below the grid. By default, note Velocity is selected, and each note's velocity is represented by a vertical bar. The higher and redder the bar is, the higher the velocity is.

To adjust the velocity of selected notes, tap **Automation** at the bottom of the screen, and make sure Velocity is selected as the automation lane parameter. Then, use the **data dial or –/+** buttons, or tap and drag up or down on a selected note. The numeric value will appear on the screen.

Making Basic Sound Edits

In addition to editing note events themselves, you may want to edit the sound of your samples, such as by changing the sample level and pitch, adjusting envelopes, or adding modulation and effects. These operations can be done using ***Track Edit Mode***.

To enter Track Edit mode, press **Menu**, and then tap **Track Edit** to enter Track Edit Mode. Alternatively, press **Prog Edit** (MPC X, MPC One), or **Edit** (MPC Key 61, MPC Key 37).



Let's make sure the samples are properly tuned and have good levels.

Press a pad to show its parameters on the screen.

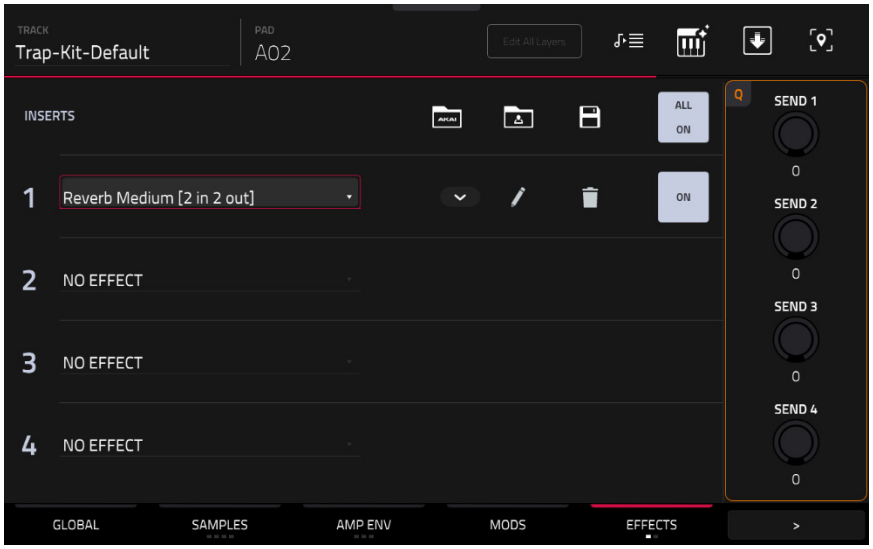
To adjust its volume, tap and drag the **Level** knob up or down. Alternatively, use the **data dial** or **–/+** buttons. **To make finer adjustments**, double-tap the knob and adjust the larger version that appears. Tap anywhere else to return to the previous screen.

To adjust its stereo panning, tap and drag the **Pan** knob up or down. Alternatively, use the **data dial** or **–/+** buttons. **To make finer adjustments**, double-tap the knob and adjust the larger version that appears. Tap anywhere else to return to the previous screen.

Adjust the level of each pad to suit your taste. We recommend spreading the panning of the bright sounds (e.g., cymbals, snare drum) a little. Additionally, you can tune the kick drum sound—tap the **Samples** tab so the second square under it is lit, and then adjust the **Semi** and **Fine** knobs next to the sample name.

The snare drum may need some reverb to give it a more spatial sound.

Tap **Effects** at bottom of the screen so the first square under it is lit to view the **Insert Effects** tab. Press the **pad** with your snare drum sound to select it.



To add an effect:

1. Double-tap the desired slot. A list of effects will appear.
2. Swipe up or down to move through the list.
3. **To load an effect**, double-tap it. Alternatively, tap it once and then tap **Select** or push the **data dial**. Let's try **Reverb Medium**.
4. **To close the list**, tap **Close**.

To adjust the effect's parameters, tap the **pencil icon**.

To empty the effect slot, tap the **trash can icon**. Switch the effect on or off by tapping the **On/Off** button for the slot.

Other Features Explained

Now that you've learned some basic concepts, this chapter describes various advanced features. For a fuller explanation of these features, please refer to their corresponding sections in the ***Operation*** chapter.

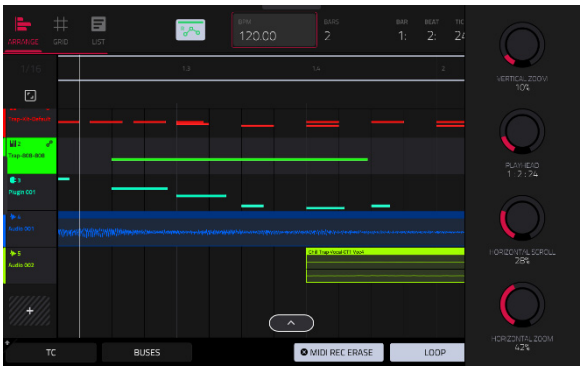
Q-Links

Your MPC hardware features Q-Link knob controls, which allow you to quickly manipulate various parameters on screen or in your project.

For MPC X/X SE users, the current Q-Link control parameters are shown on the display strips above each knob, and you can use the Q-Link buttons to switch between the different Q-Link modes.

For all other MPC hardware, Q-Link controls are divided into four banks, which can be cycled through using the **Q-Link** button. In some modes, the current control or controls that are within Q-Link Screen mode control are outlined by a yellow box marked with a Q.

You can also press and hold the **Q-Link** button to open the Q-Link window, where you can switch between Q-Link modes and view the current Q-Link controls. If you are new to MPC, you may wish to enable the **Q-Link Status** feature, which will temporarily open a pop-up on the right side of the screen whenever a Q-Link is touched, displaying the current controls and values.



See the ***Q-Link Edit*** section to learn more about how to use Q-Links.

Step Sequencer

You've already learned how to record note events on a track, but you can also quickly enter note events in the Step Sequencer by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.

To enter the Step Sequencer, press **Menu**, and then tap **Step Sequencer**. You can also press **Step Seq** (MPC X, MPC Live II, MPC One), or **Shift** and **Grid/Step Seq** (MPC Key 61, MPC Key 37).

1. Trying creating a new sequence. In Main Mode, tap **Sequence 1** to select it, and then use the **data dial** or the **+** button to switch to Sequence 2. This will be shown as "(unused)" until it is edited.
2. Select the original drum track from your first sequence, then enter Step Sequencer mode using the directions above.
3. Tap the **Bars** field at the top of the screen, and then use the **data dial** or the **–/+** buttons to select a length.

   Tip: The **Track Length** selector allows you to maintain tracks of different lengths by selecting **Track** instead of **Sequence**. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.
4. Tap the **Bar –/+** buttons at the bottom of the screen to select the bar whose steps you want to create or edit. The bar number will appear in the **Bar** field in the upper-left corner.
5. Tap the **Pad –/+** buttons at the bottom of the screen to select the pad whose steps want to create or edit. The pad number will appear in the **Pad** field in the upper-left corner.
6. Press **Play** to start your sequence. The current step is marked in green.
7. Each pad represents a step in the bar. If the pad already has note events on the selected track, the corresponding pads (steps) will be lit with colors corresponding to their velocities.

   To enter a note at a step, press an **unlit pad** or tap an unlit step marker. The pad will light up with a color corresponding to its velocity. On the screen, the step marker will light up blue and a bar will appear showing the corresponding velocity.

   To delete the note from a step, press a **lit pad**. The pad will become unlit.

   To delete all notes from the current page view, press and hold **Shift**, and then tap **Clear Page** in the lower-right corner.

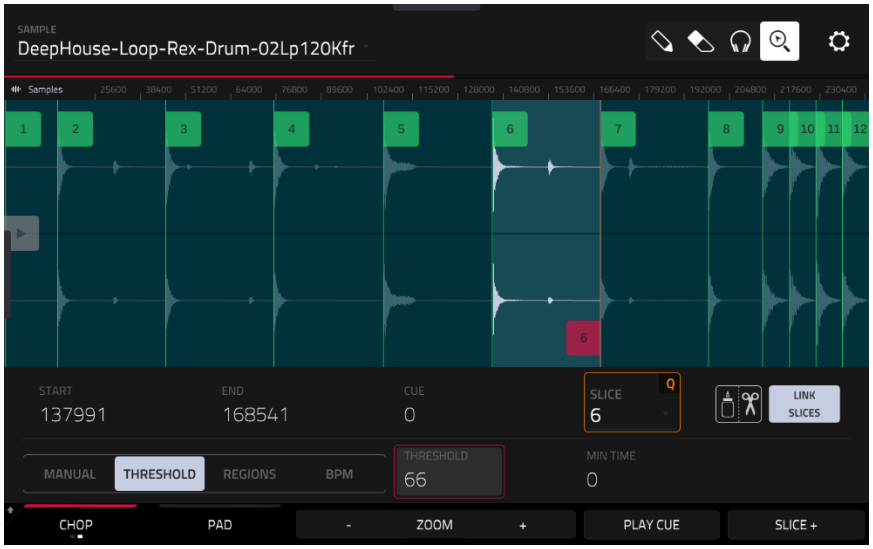
See ***Operation*** > ***Modes*** > ***Step Sequencer*** to learn more about this feature.

Drum Loops & Chop Mode

Modern music producers often use drum loops to add grit and nuance to programmed beats. This section explains how to use Sample Edit Mode to work with drum loops.

Use the Browser to locate a drum loop. If you have a pad selected in a Drum Track, you can tap **Load** to instantly add it to the kit. You can also tap **Load to Pool** to load it to the general sample pool of your project. The loop does not have to match the tempo of anything in the project.

To enter Sample Edit Mode, press **Menu**, and then tap **Sample Edit**. Alternatively, press **Sample Edit** (MPC X, MPC One, MPC Key 61, MPC Key 37), or **Shift** and **Mute/Sample Edit** (MPC Live II).

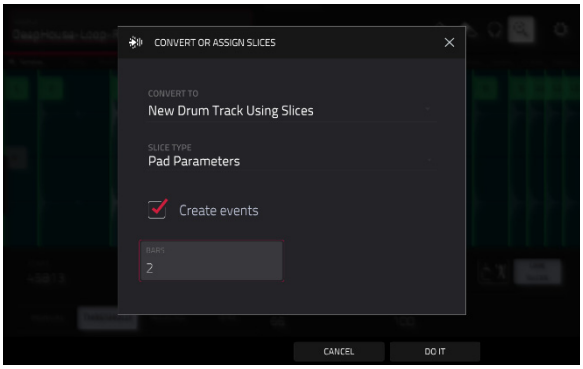


1. Tap the **Sample** field at the top of the screen, and then use the **data dial** or **–/+** buttons to select a loaded drum loop. You can scroll through all loaded samples in the project. Alternatively, double-tap the **Sample** field, and then tap a sample to select it.
2. Tap the **Trim**/**Chop** tab in the lower-left corner to switch between Trim Mode and Chop Mode. Select Chop Mode, which will let us cut the drum loop into slices.
3. Tap **Threshold**, and then tap the **Threshold** field to the right of it. Use the **data dial**, **–/+** buttons, or **numeric keypad** (MPC X) to select a value. Alternatively, double-tap the **Threshold** field and use the numeric keypad on the screen. The lower the threshold, the more slices will be created. Be sure to select a value so that every transient peak of the drum loop has a corresponding a slice marker.

   Tip: Each slice will be automatically assigned to a pad: **Pad A01** plays Slice 1, **Pad A02** plays Slice 2, etc. Press each pad to play the slice with the same number.

Let's use this chopped sample to create a new track in which each of these slices is an individual sample. We can also automatically create corresponding note events to play back these slices sequentially.

1. Press and hold **Shift** and then tap **Convert** at the bottom of the screen to enter the **Convert or Assign Slices** window.
2. Tap the **Convert To** field, and then use the **data dial** or **–/+** buttons to select **New Drum Track Using Slices**.
3. Make sure **Create Events** is checked. If it is not, tap it.
4. Tap the **Bars** field, and then use the **data dial** or **–/+** buttons to select how many bars the entire sample should use in your track.
5. Tap **Do It** to proceed. Each slice will be assigned to a pad, and each pad will have a recorded note event in the track. When you play that track, it will play each pad (each slice) in the original order. Press **Menu** and then tap **Grid View** to see how the sample appears in your sequence.
6. Press **Play** and listen to how the drum loop matches your song tempo now.



You can also edit the note events of the drum loop slices—enter Main Mode to do this. A new track with the note events playing their corresponding slices has been automatically created. Tap the **TC/clock icon** at the top of the screen to use the **Timing Correct** window to quantize the note events so they fall on exact, even time intervals.

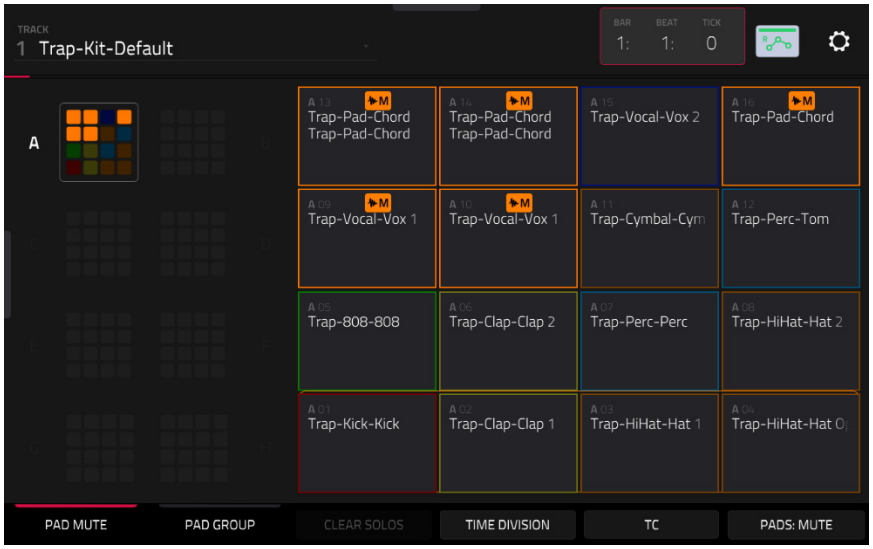
You can also rearrange the note events, thus creating a new playback order for the slices. You can also edit each slice or sample in Track Edit Mode. You can add effects for slices or use the filter function to change the frequency range of a selected slice. You can even convert your chopped sample to an audio track instead, using the **Audio Track from Samples** option in the **Convert** menu. There are almost no limits to what you can do.

See ***Operation*** > ***Modes*** > ***Sample Edit Mode*** > ***Chop Mode*** to learn more about these features.

Pad Muting & Track Muting

Pad Mute Mode and Track Mute Mode let you silence different pads and tracks to see what the sequence sounds like without those samples or parts.

To enter Pad Mute Mode, press **Menu**, and then tap **Pad Mute**. Alternatively, press **Shift** and **Track Mute**/**Pad Mute** (MPC X, MPC One, MPC Key 37), or **Shift** and **Mute/Pad** (MPC Key 61).

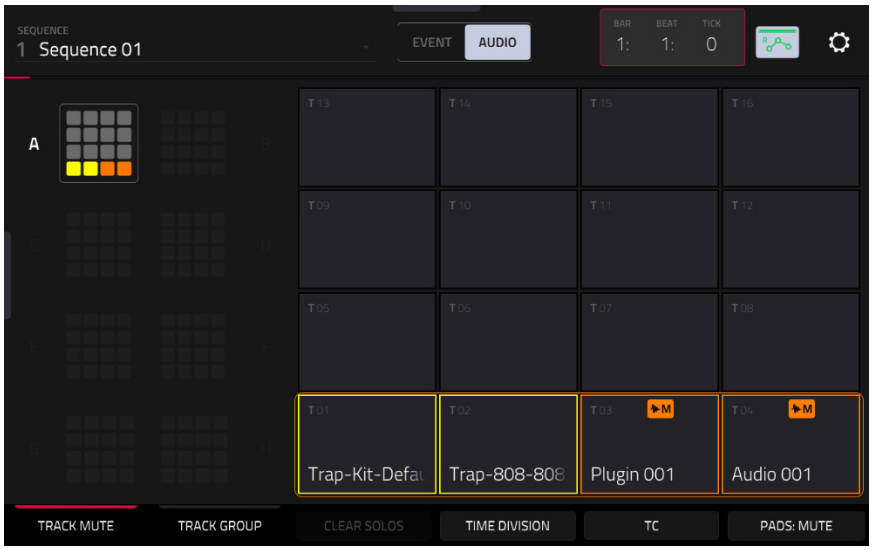


1. Press **Play** to play the sequence.
2. Tap the **Track** field at the top of the screen, and then use the **data dial** or **–/+** buttons to select your drum track. Alternatively, double-tap the **Track** field, and then tap a track to select it.
3. Mute a pad by pressing it once or tapping it on the screen. The muted pad will be lit **orange**. You can mute multiple pads at the same time.

See ***Operation*** > ***Modes*** > ***Pad Mute Mode*** to learn more about pad mutes.

You can also mute entire tracks by using the similar Track Mute function.

To enter Track Mute Mode, press **Menu**, and then tap **Track Mute** to enter Track Mute Mode. Alternatively, press **Track Mute** (MPC X, MPC One, MPC Key 37), or **Mute** (MPC Key 61).



1. Press **Play** to play the sequence.
2. Tap the **Sequence** field at the top of the screen, and then use the **data dial** or **–/+** buttons to select the desired sequence. Alternatively, double-tap the **Sequence** field, and then tap a sequence to select it.
3. Each pad is assigned to a track. Mute a track by pressing the corresponding pad or tapping it on the screen. The pad will be lit **orange**. You can mute multiple tracks at the same time.

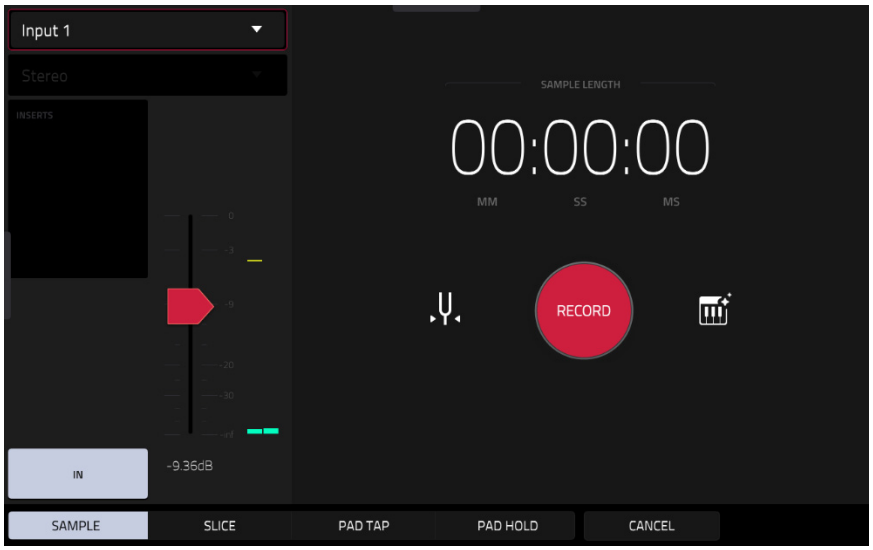
Tip: **To mute a track only at precise note intervals** (“quantizing” your mutes, essentially), tap **Time Division** to set a musical timing value. Tap the desired musical value (e.g., **1 Bar**). Tap **Close** to close the page. Now, when you press a pad in Track Mute Mode, the mute will occur precisely at the beginning of the following time division (in this example, one bar). This lets you test musical combinations of patterns—the preliminary stage to building a song structure.

See ***Operation*** > ***Modes*** > ***Track Mute Mode*** to learn more about track mutes.

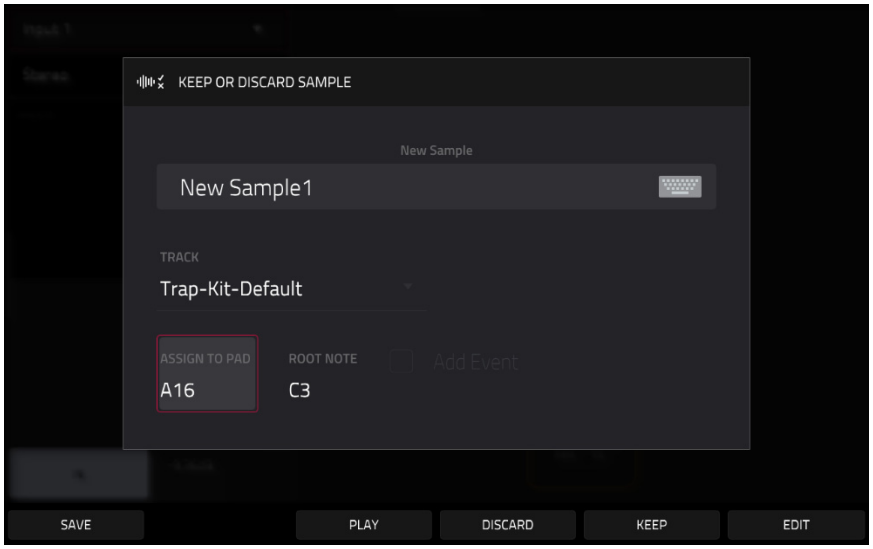
Sampling (Recording)

Earlier in this tutorial, we described recording audio from an external instrument directly into your arrangement. You can also record from an external instrument to create samples that can be used in other ways in your project. This can be done using the Sampler function.

To open the Sampler, press **Menu**, and then tap **Sampler**. Alternatively, press **Sampler** (MPC X, MPC One), press **Shift** and **Mix/Sampler** (MPC Live II), or press **Shift** and **Sample Edit/Sampler** (MPC Key 61, MPC Key 37).



1. Connect an audio source to the input/inputs of your MPC hardware.
2. The **Input** ___ menu in the upper-left corner should be set to **Input 1,2** (the inputs of your MPC hardware). If it is not, then select **Input 1,2**.
3. Turn the **3/4 Rec Gain** (MPC X), **Rec Vol** (MPC Live, MPC Live II, MPC One, MPC Key 37), or **Gain** (MPC Key 61) knob to set the input level while playing your audio source. You should now see the level in the meter. Make sure it does not exceed the maximum level (the meter should not be "peaking" constantly).
4. Tap and drag **threshold slider** to set the threshold. Alternatively, use the **data dial** or **–/+** buttons. Set it to a fairly low level (e.g., **-50 dB**).
5. Tap **Arm** to record-arm the Sampler.
6. Play your audio source. The Sampler will start recording immediately when the input level reaches the threshold value. Alternatively, tap the round **Record** button to manually start recording.
7. **To stop recording**, tap the round **Stop** button. The **Keep or Discard Sample** window will appear.



In the **Keep or Discard Sample** window:

Tap the **Name** field to name the new sample using the virtual keyboard.

Use the **Track** field to select the desired track. Tap to select it, and then use the **data dial** or **–/+** buttons to select the track. You can also double-tap this field to open the list of tracks, and then tap to select your track.

Use the **Assign To Pad** field to assign the sample to a pad in your track. You can tap this field and then press the desired **pad**, use the **data dial** or **–/+** buttons to select the desired pad number, or double-tap the **Pad** field, and then tap a pad number.

Use the **Root Note** field to set the root note for the sample. Tap the field and then then use the **data dial** or **–/+** buttons to select the desired note.

Tap the **Save** button at the bottom of the screen to save the sample.

Tap the **Play** button at the bottom of the screen to play the recording.

Tap the **Discard** button at the bottom of the screen to discard the recording and return to the previous screen.

Tap **Keep** at the bottom of the screen to confirm your selections.

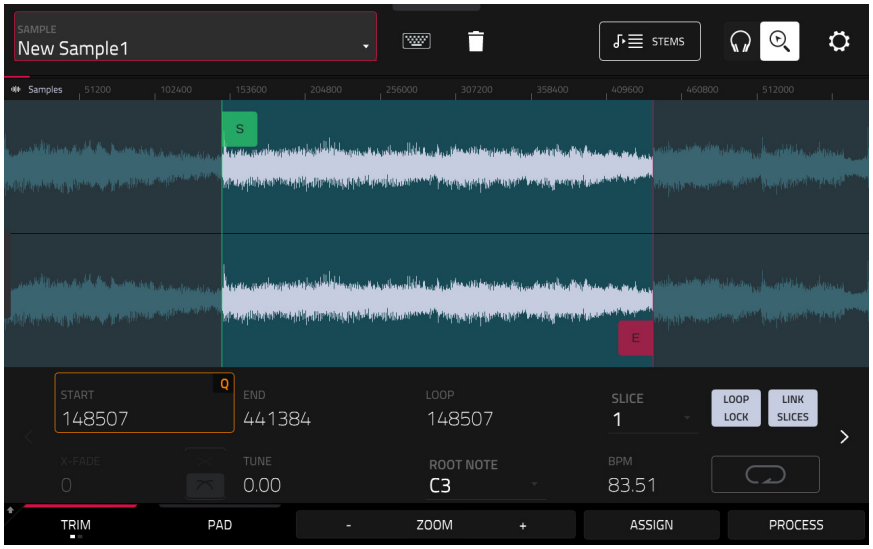
Tap the **Edit** button at the bottom of the screen to edit the sample in ***Sample Edit Mode***.

See ***Operation*** > ***Modes*** > ***Sampler*** to learn more about this feature.

Sample Editing

You may need to edit your newly recorded samples using Sample Edit Mode.

To enter Sample Edit Mode, press **Menu**, and then tap **Sample Edit**. Alternatively, press **Sample Edit** (MPC X, MPC One, MPC Key 61, MPC Key 37), or press **Shift** and **Mute/Sample Edit** (MPC Live II).



In Sample Edit Mode:

Tap the **Trim**/**Chop** tab at the bottom of the screen to switch between Trim Mode and Chop Mode. In this example, use **Trim Mode**.

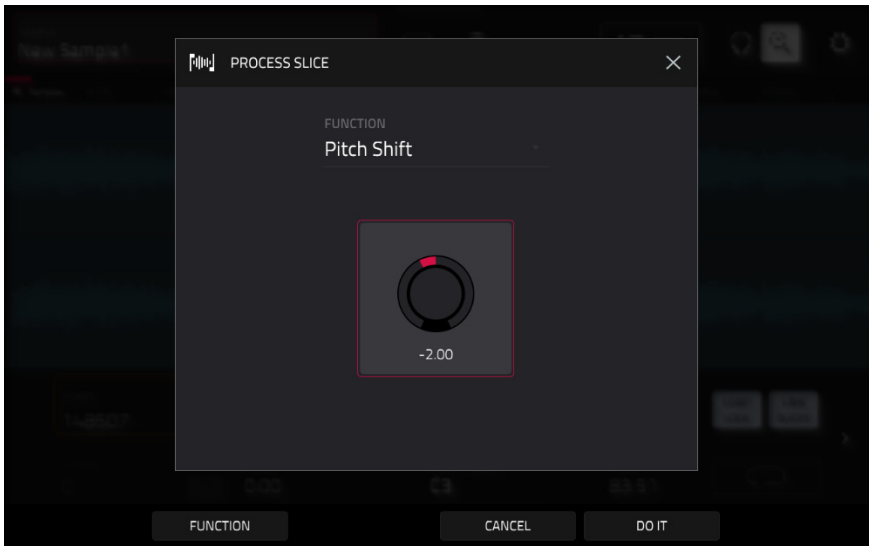
To set the sample's start point, use the **first** column of **Q-Link knobs** (when in the **Screen** Q-Link Edit Mode) to adjust the start point with varying degrees of resolution. Alternatively, tap and drag the **S** marker in the waveform. You can also double-tap the **Start** field and use the numeric keypad on the screen to enter a value (or tap the **Start** field and use the **numeric keypad** [MPC X only]).

To set the sample's end point, use the **second** column of **Q-Link knobs** (when in the **Screen** Q-Link Edit Mode) to adjust the end point with varying degrees of resolution. Alternatively, tap and drag the **E** marker in the waveform. You can also double-tap the **End** field and use the numeric keypad on the screen to enter a value (or tap the **Start** field and use the **numeric keypad** [MPC X only]).

To hear your edits, press **Pad 10** to play the sample from the start point to the end point.

Let's apply some processing to the sample.

To open the Process Sample window, tap **Process** at the bottom of the screen.



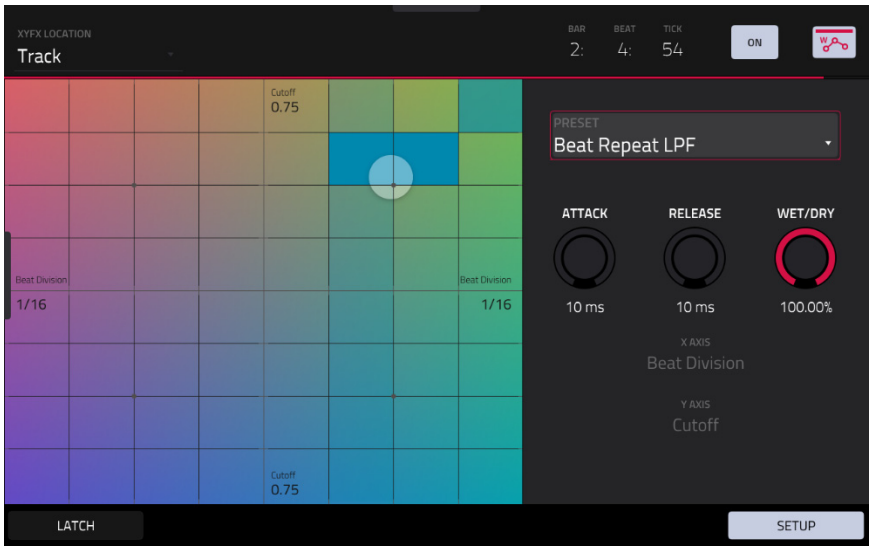
1. Use the **data dial** or **–/+** buttons to select the desired process in the **Function** field. Alternatively, tap **Function** or double-tap the **Function** field, and then tap the desired process. Let's select **Pitch Shift** to change the overall pitch of your sample. This will transpose the sample without affecting its length.
2. **To set the pitch shift amount**, tap and drag the **knob** in the center of the window up or down. Alternatively, use the **data dial** or **–/+** buttons.

   To make finer adjustments, double-tap the **knob** and adjust the larger version that appears. Tap anywhere else to return to the previous screen.
3. Tap **Do It** to confirm your selections, or tap **Cancel** to cancel the process.

See ***Operation*** > ***Modes*** > ***Sample Edit Mode*** to learn more.

Recording Automation with the XY Pad

Automating various parameters is a good way to add some motion and dynamism to your sequences.



1. Press **Menu**, and then tap **XYFX** to enter XYFX Mode.
2. Tap the **XYFX Location** field, and select **Track**. This will add the XY effect to the currently selected track.
3. When you first enter this mode in a project, you will be prompted to "load" XYFX to the track. Tap **Insert XYFX** to do this.
4. Tap **Setup** to show the Setup panel, which controls how the XY pad behaves.
5. Double-tap the **Preset** field, and tap an effect to select it. (These are just the effects available in XYFX Mode, not all MPC effects.) Swipe up or down to view the complete list.
6. Tap and drag any of the knobs (**Attack**, **Release**, or **Wet/Dry**) up or down to set their values as desired. Below them, you can see what parameter the X axis and Y axis control.

   Note: XYFX uses an envelope to control how quickly the effect crossfades between the dry signal and wet signal. The **Attack** knob determines how long it takes the completely dry signal to reach the wet signal (determined by the **Wet/Dry** knob) after you touch the XY pad. The **Release** knob determines how long it takes the wet signal (determined by the **Wet/Dry** knob) to return to the completely dry signal after you touch the XY pad.
7. Tap the **automation button** to cycle through the available automation modes. Make sure the button is **red** (the **Write** (**W**) option).
8. Press **Play Start** to start recording.
9. As you record, move your finger over the **XY pad** on the screen. The changes in the sound are being recorded as automation of both the X axis and Y axis parameters.

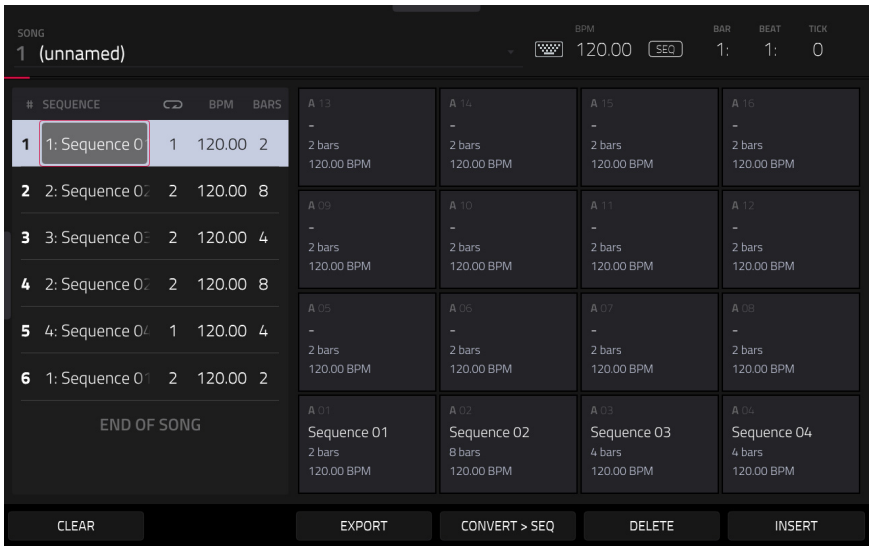
   Tip: While touching the **XY pad**, tap **Latch** in the lower-left corner to keep the marker on the XY pad even after you release it. The marker will remain there until you touch another part of the XY pad or until you tap **Latch** again.
10. When you are done recording, press **Stop**.
11. Tap the **automation button** to select the **green Read** (**R**) option. This ensures your track uses the automation you just recorded when you play it back.

See ***Operation*** > ***Modes*** > ***XYFX Mode*** to learn more about using this feature.

Creating a Song

As your project grows, you may have multiple sequences of music that you want to piece together into a larger song for exporting. This can be done using Song Mode.

To enter Song Mode, make sure playback is stopped, then press **Menu**, and then tap **Song**. Alternatively, press **Song** (MPC X).



In Song Mode, each of the sequences you've created in this project are assigned to a pad. The sequence playlist is to the left of the pads, showing the song's structure.

As a song plays, it moves through each step of the sequence playlist. Each step contains a sequence you assigned. Each step can be repeated, determined by the value in the **Repeat** column (the **repeat icon**; a value of **1** means the sequence will play through only once). The **Bars** column on the right indicates the length of that sequence.

Each step can be set to play its sequence at an independent tempo, determined by the value in the **BPM** column.

Important: Each sequence has its own tempo, while the project itself may use a different global tempo. The BPM value for each sequence may be different from the global tempo. As long as playback is set to follow the global tempo, each sequence's individual tempo will be ignored. By default, each project is set to use the sequence tempo. We recommend tapping the **SEQ**/**GBL** button at the top of the screen (so the button displays **GBL**) and entering a global tempo to ensure all sequences use the same tempo.

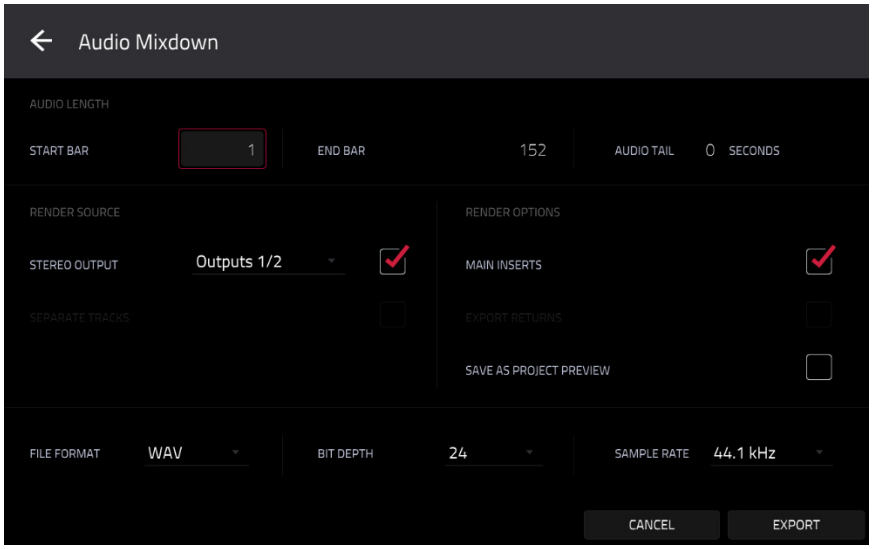
Tap **Insert** to insert a step at the current position.

Tap **Delete** to delete the currently selected step.

To set which sequence plays for a step, tap the step's **Sequence** field, and then turn the **data dial** to select a sequence.

To set how many times a sequence repeats, tap the step's **Repeat** field (next to the sequence name), and then turn the **data dial** to select a number.

Want to share your new song? Just export it first.



To export a song:

1. While in Song Mode, tap **Export** at the bottom of the screen.
2. In the **Audio Mixdown** screen that appears, do the following:
    - Make sure the **Start** field is set to **1**, and set the **End** field to the last bar of your song.
    - Tap the **Audio Tail** field and turn the **data dial** to set it to **2** seconds.
    - As you'll likely share the song online, tap the **mp3** file format option in the lower-left corner.
3. Tap **Export**. Choose where you want to save the song.

    To name the song, tap the **File Name** field, and use the virtual keyboard that appears to enter a new name, and then tap **Save** to start exporting.

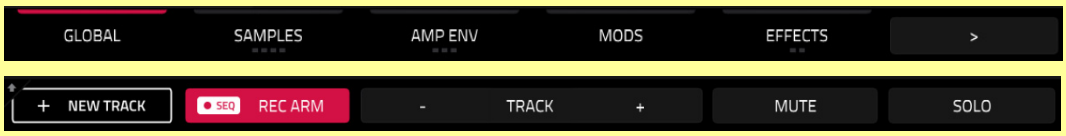
See ***Operation*** > ***Modes*** > ***Song Mode*** to learn more about using this feature.

Operation

This chapter explains the complete features and functions of the MPC operating system. For a breakdown of the hardware controls on your MPC device, see the following ***Hardware Features*** section.

Important:

- When the left-most button at the bottom of the screen shows an upward arrow (⬆), it means there are additional buttons you can use when you press and hold **Shift**. Press and hold **Shift** to show the secondary buttons. Release **Shift** to return to the previous buttons.
- Many modes shown on the screen have 1–6 buttons at the bottom. Each of these buttons select a different tab in that mode or perform a specific function in that mode. If there are more than six tabs available, use the **<** and **>** buttons to scroll between them.



- As an alternative to double-tapping an item on the screen to "enter" it, you can press the **data dial**.
- When a parameter is highlighted and has a red outline, this means that it is selected. You can then change it by turning the hardware's **data dial** or using the **–/+** buttons. If the parameter is a number, double-tap it to show a numeric keypad on the screen to enter a specific value.

General Features

Control Types

This section covers the types of control elements featured on the MPC touchscreen, and details how you can adjust them using the touchscreen or your hardware controls. In descriptions throughout the remainder of this manual, touchscreen controls are primarily referenced, but you can always use the hardware controls described below to adjust each control type.

Knobs

To set the value for a knob, do any of the following:

- Tap and drag the knob up or down.
- Tap the knob to select it, and then use the **data dial** or **–/+** buttons to adjust the value.
- Double-tap the knob to show it in a larger screen. Alternatively, press **data dial** when the knob is selected.

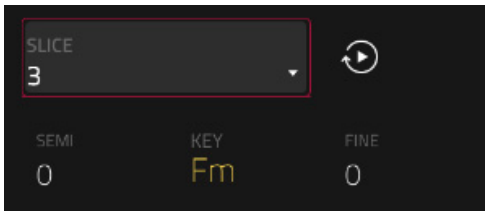
  Tap and drag the larger version that appears, or use the **data dial** or **–/+** buttons to adjust the value.

  If the knob is bipolar (has positive and negative values with the center as the default position), double-tap the larger version to reset it to the center/0 position.

  Tap anywhere else to return to the previous screen.
- Press and hold **Shift** while turning the **data dial** to adjust a value by smaller increments.

Parameter Values

To set the value for a parameter, do either of the following:



- Tap the field to select it, and then use the **data dial** or **–/+** buttons to adjust the value.

  When the value has decimal places, you can sometimes press and hold **Shift** and then use the **data dial** or **–/+** buttons to adjust the value by smaller increments.

- Double-tap the field or hold your finger on it for a second. In the screen that appears, type in a value using the number pad, or use the **data dial** or the **–/+** buttons to adjust the value. Alternatively, tap and drag the value up or down.

  You can also tap **/2** to halve the value or **x2** to double it.

  To confirm the value and remain on this screen, tap **Apply**.

  To confirm the value and return to the previous screen, tap **Do It**.

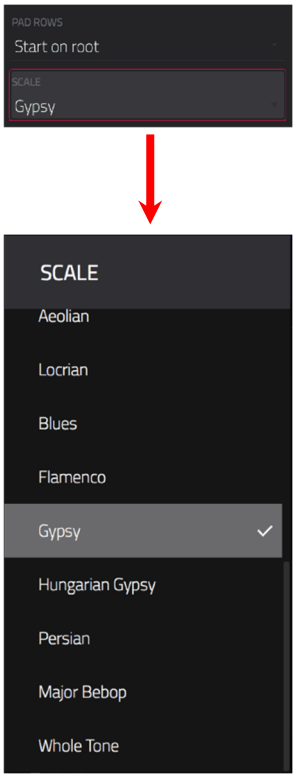
  To return to the previous screen, tap the gray area in the upper-left corner of the screen. Unsaved changes made using the number pad will not be applied. All other changes will be saved.

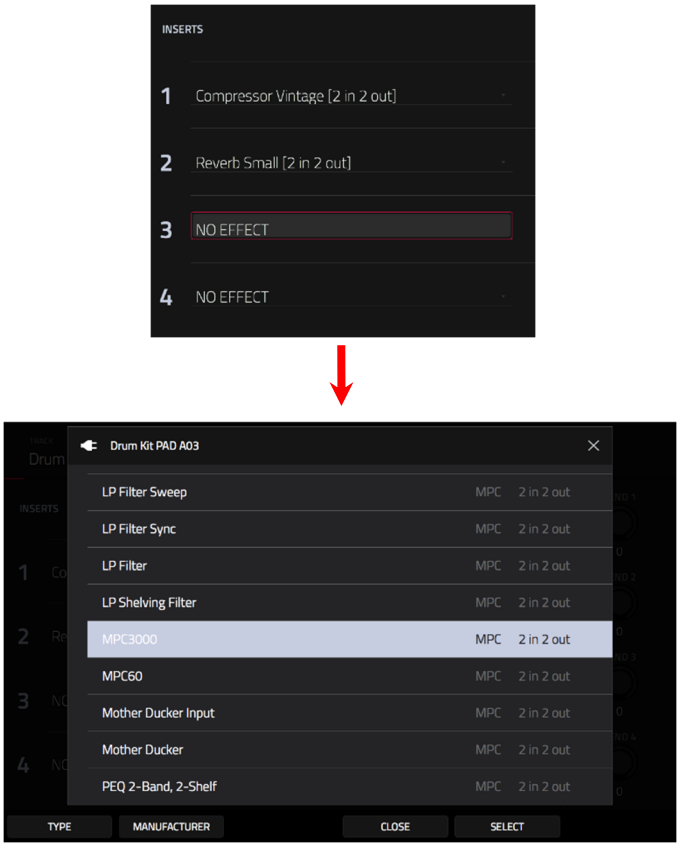
Drop-Down Menus / Lists

To select an option for a drop-down menu, do any of the following:

- Tap the field to select it, and then use the **data dial** or **–/+** buttons to select an option.
- Double-tap the field. In the list that appears (examples below), tap the desired option. Alternatively, use the **data dial** or the **–/+** buttons to select an option.

  In some windows, tap the relevant button at the bottom of the screen to confirm your selection or to cancel without changing anything.





Selectors

Selectors show all available options. One of them is always selected. The selected option is highlighted while the others are dark.

To select an option, tap it.

Buttons

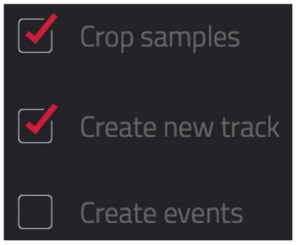
Buttons usually have two states: selected and deselected (active or inactive, respectively). Some may have more than two states.

To switch between or cycle through a button's states, do either of the following:

- Tap it.
- If it is outlined in red (and is not a mute button), use the **data dial** or **–/+** buttons.

Checkboxes

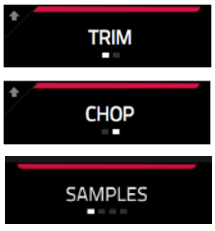
Checkboxes have two states: checked and unchecked (enabled or disabled, respectively).



To check or uncheck a checkbox, tap it.

Tabs

Some modes have buttons at the bottom of the screen that let you cycle through several similar tabs. For example, you can toggle between **Trim** and **Chop** modes in ***Sample Edit Mode***, or cycle between the **Samples** tabs in ***Track Edit Mode***. With each tap, you will move to the next tab, indicated by the squares below it.



To select a tab, tap it. Each time you tap it, it will select the next tab.

Sliders

To adjust the position of a slider, do any of the following:

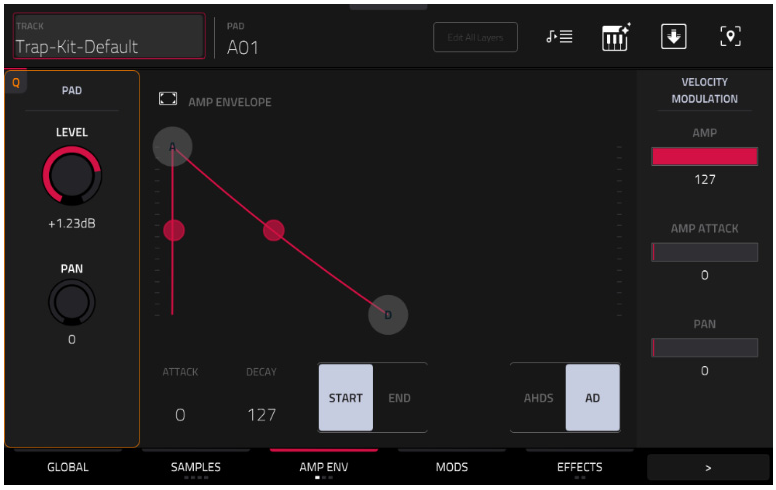
- Tap and drag the slider to the desired position.
- Tap the desired position (this works only on some sliders).
- Tap the slider to select it, and then use the **data dial** or **–/+** buttons to adjust the position (this works only on some sliders).
- Double-tap the slider, and then tap and drag the larger version that appears, or use the **data dial** or **–/+** buttons to adjust the value. Tap anywhere else to return to the previous screen.

Envelopes

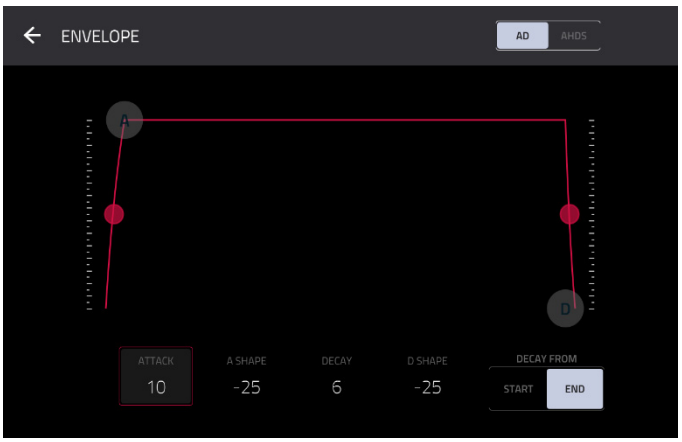
To set the stages of an envelope, do either of the following:

Tip: Tap the **expand-rectangle icon** above the envelope to show a close-up view.

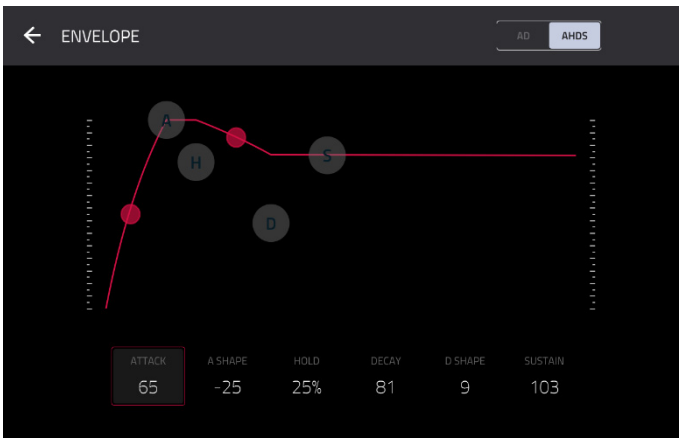
- Tap and drag a "handle" of an envelope stage in the desired direction.
- Set the numeric value of an envelope stage by adjusting or entering it as a parameter value (described ***earlier***).



The Envelope tab in Track Edit Mode (Drum Tracks).



Close-up of an AD-type filter envelope.



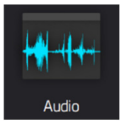
Close-up of an AHDS-type amp envelope.

Tracks

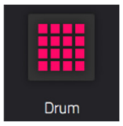
About Tracks

Each sequence you create within a project is made up of **tracks**. There are six main types of tracks, each of which determines how the track sounds or for what it is used. A single project can hold up to 128 tracks.

To learn about editing your tracks to your preference, see the ***Modes*** > ***Track Edit Mode*** chapter.



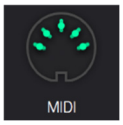
An **Audio track** lets you record audio from an external source or by resampling another track to create a sample. See ***Audio Tracks*** for more information.



A **drum track** uses one or more samples as its sound source. It contains (**1**) a list of samples and (**2**) the settings for each sample (i.e., pad assignments, loop points, pitch tuning, effects, etc.). Drum tracks are used mostly for creating drum parts and quickly and easily assigning samples to pads. See ***Drum Tracks*** for more information.

A **keygroup track** uses one or more samples as its sound source. It contains (**1**) a list of samples and (**2**) the settings for each sample (i.e., pitch tuning, effects, etc.). Keygroup tracks are used to play samples chromatically with a MIDI keyboard or the MPC pads. See ***Keygroup Tracks*** for more information.

A **plugin track** contains an instance of a plugin through which you can send your track's MIDI data. See ***Plugin Tracks*** for more information.



A **MIDI track** lets you send your track's MIDI data to an external MIDI device like a synth or drum machine. See ***MIDI Tracks*** for more information.

A **CV track** lets you send your track's MIDI data to an external device that uses control voltage (CV), like a synth. See ***CV Tracks*** for more information.

To create a new track:

1. Press **Main** to open ***Main Mode***, or select **Main** from the **Menu**.
2. Tap the **New Track** button at the bottom of the screen.
3. A window will appear where you can select the track type. Tap to select a track type, which will be instantly added to your project.

   Alternatively, tap the **Advanced** button at the bottom of the screen. In this window, use the **Type** field to select the track type. You can also use the **Number of Tracks** field to add multiple tracks of the selected type.

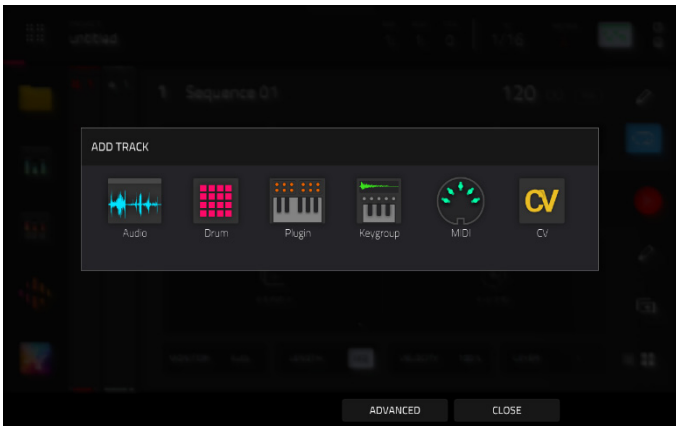
   For Audio Tracks, you can also adjust the following options:

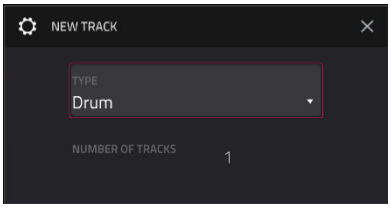
   Use the **Input** field to select which inputs the audio track will use.

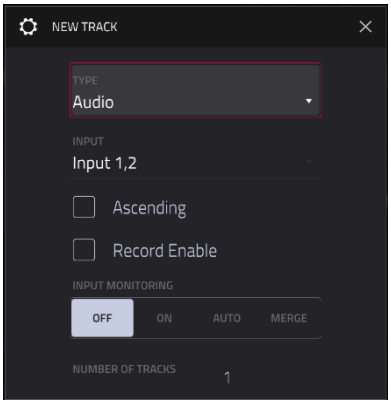
   Check the **Ascending** box to determine if the channel numbers of the input sources will ascend across the new audio tracks you create. When checked, the first new audio track will use the input source you set above (e.g., **Input 1**), the second new audio track will use the next input source (e.g., **Input 2**), etc. When unchecked, all of the new audio tracks you create in this instance will use the same input source. This feature is relevant only if you are creating more than one new audio track (determined by **Number of Tracks** below).

   Check the **Record Enable** box to set the new track to be automatically record enabled.

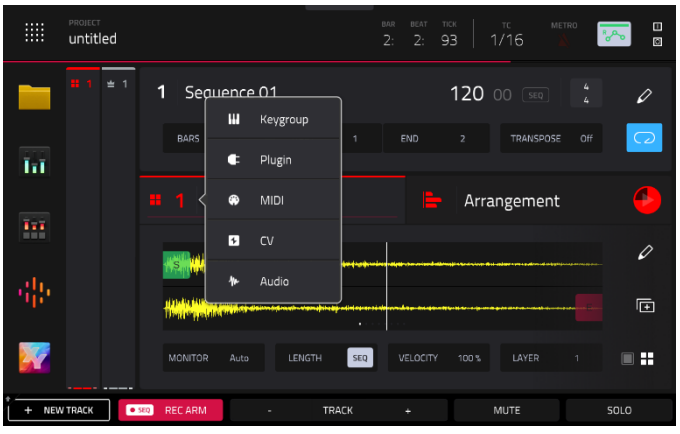
   Use the **Input Monitoring** field to set the monitoring behavior: **Off**, **On**, **Auto**, or **Merge**.







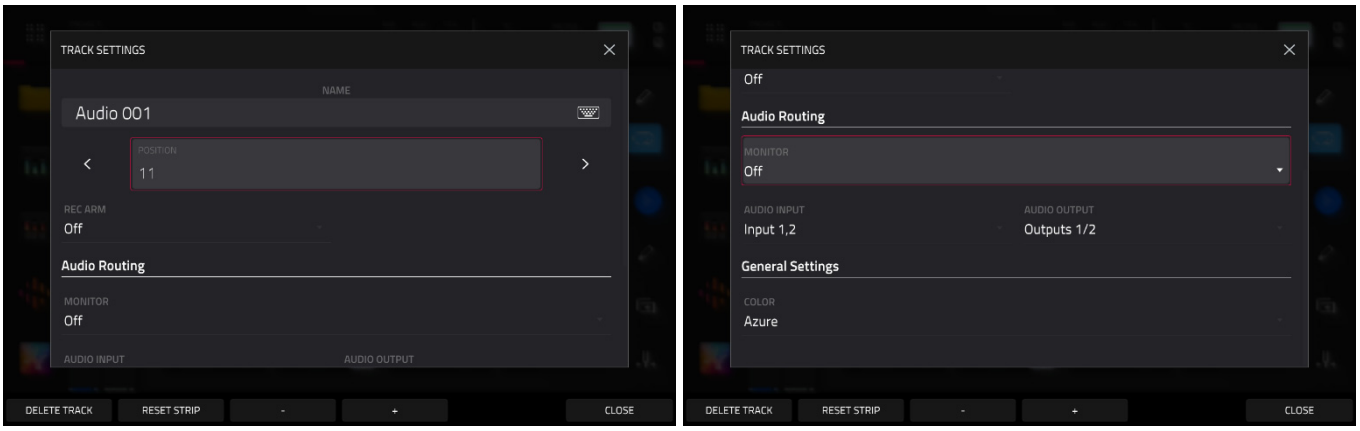
To change a track from one type to another, tap the **track type icon/track number** in the ***Track Section*** of **Main Mode**. A selector will appear where you can select from the five remaining track types.



To access the **Track Settings** window, described for each track type below, do either of the following:

- Tap and hold on the **Track Name** in the ***Track Section*** of **Main Mode**.
- Double-tap the track header in the ***Channel Mixer*** or ***Arrange Mode***.

Audio Tracks



Settings:

Tap the track **name** field to rename the track. Use the virtual keyboard that appears to enter a new name, and then tap **Do It** to confirm or the gray bar at the top of the screen to cancel.

Use the **Position** field to change the location of the track, moving the other tracks in relation.

Use the **Rec Arm** field to arm (**On**) or disarm (**Off**) the track for recording.

Use the **Monitor** field to set the monitoring behavior of the track:

When set to **Off**, you will never hear any incoming audio.

When set to **In**, you will hear incoming audio whether or not the track is record-enabled.

When set to **Auto**, you will hear incoming audio while the track is record-enabled only.

When set to **Merge**, the track's input is always monitored, and you will hear playback of recorded events.

Use the **Audio Input** field to set the input source for the track.

Use the **Audio Output** field to set the output destination for the track.

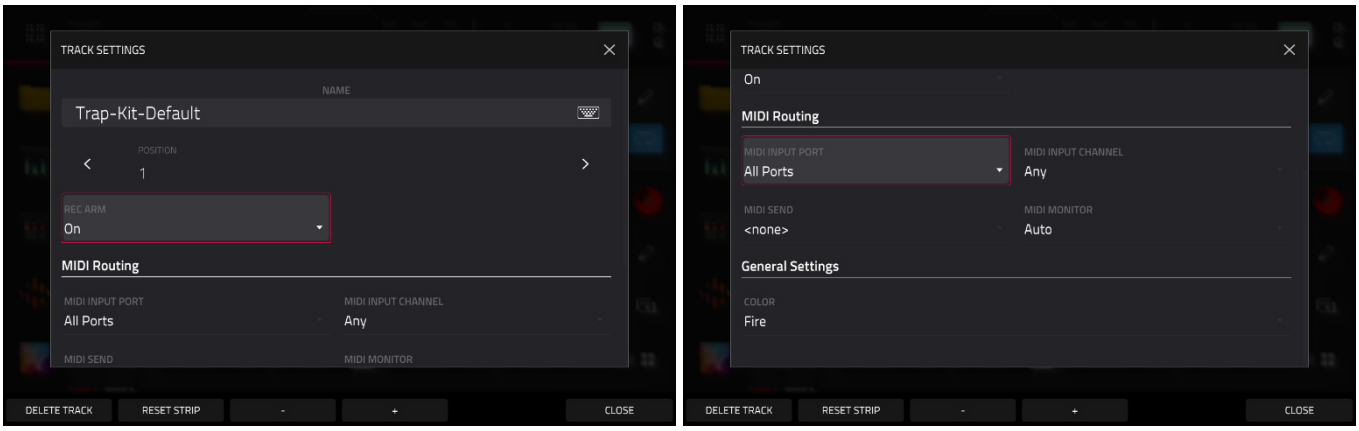
Use the **Color** field to change the track color.

Tap **Delete Track** at the bottom of the screen to remove the track.

Tap **Reset Strip** at the bottom of the screen to reset all mixer settings for the track.

Tap the **-/+** buttons at the bottom of the screen to move to the previous or next track.

Drum Tracks



Settings:

Tap the track **name** field to rename the track. Use the virtual keyboard that appears to enter a new name, and then tap **Do It** to confirm or the gray bar at the top of the screen to cancel.

Use the **Position** field to change the location of the track, moving the other tracks in relation.

Use the **Rec Arm** field to arm (**On**) or disarm (**Off**) the track for recording.

Use the **MIDI Routing** fields to edit the MIDI routing for the track:

MIDI Input Port: Select the MIDI port from which to receive MIDI data. When set to **All Ports**, the track will receive all incoming MIDI Data from any connected port. To view and edit the available ports, go to ***Preferences*** > ***MIDI / Sync***.

MIDI Input Channel: Sets the MIDI Channel from which to receive MIDI data. Select **Any** to receive from any MIDI channel, or select **1–16**.

MIDI Send: Sets where the MIDI data is sent. You can use this to send the MIDI data from one track to another track.

Use the **MIDI Monitor** field to set the monitoring behavior of the track:

Off: The track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

In: The track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

Auto: The track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.

Merge: The track's MIDI input is always monitored, and playback of recorded events will be heard.

Use the **Color** field to change the track color.

Tap **Delete Track** at the bottom of the screen to remove the track.

Tap **Reset Strip** at the bottom of the screen to reset all mixer settings for the track.

Tap the **-/+** buttons at the bottom of the screen to move to the previous or next track.

To load a kit into a drum track:

1. Press **Menu** and tap **Browser** to show the Browser.
2. Tap the **Drums** content icon on the left side of the screen to display the factory kits, or navigate to another file location and use the **four-squares** icon above the file list to show only kit files. (See ***Modes*** > ***Browser*** to learn more about using the Browser specifically.)
3. Find and select a kit, and then tap **Load** to load it to the track.

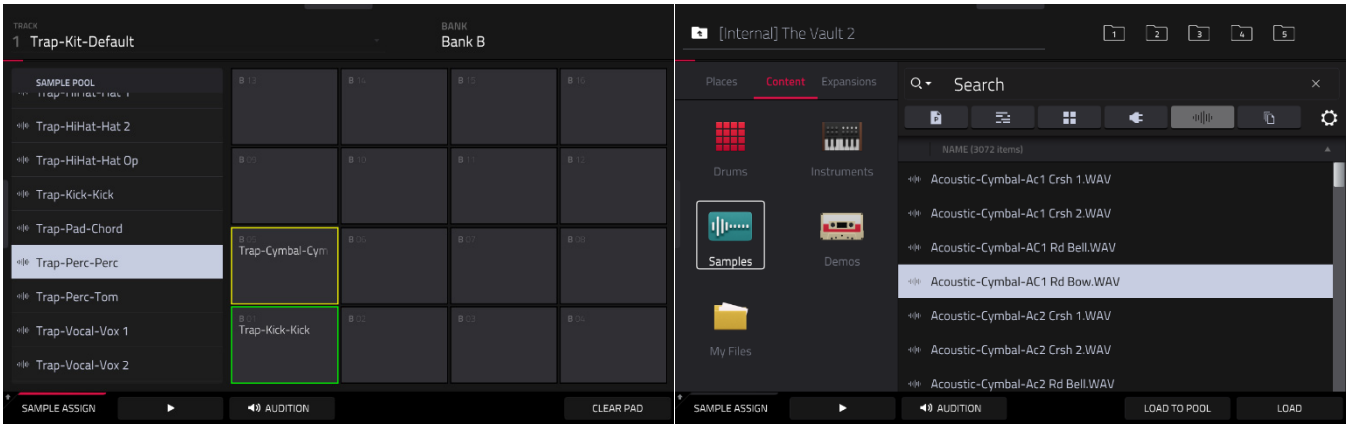
To load a sample into a drum track:

1. Press **Menu** and tap **Browser** to show the Browser. If you have an empty pad selected, you can also tap the **Browse** button in the Track area to open the Browser.
2. Find and select a sample, and then tap **Load** to load it to the track. Repeat this for any other samples you want to load into the project. (See ***Modes*** > ***Browser*** to learn more about using the Browser specifically.)
3. Tap **Sample Assign** to view the pads and project's sample pool.
4. Press or tap a pad to select it. The pad will be lit green.
5. In the **Sample Pool** list, double-tap a sample or press the **data dial** to assign it to the pad. Alternatively, tap and drag from the Sample Pool list directly onto a pad to assign it.

   To clear the assigned sample from a selected pad, tap **Clear Pad**.

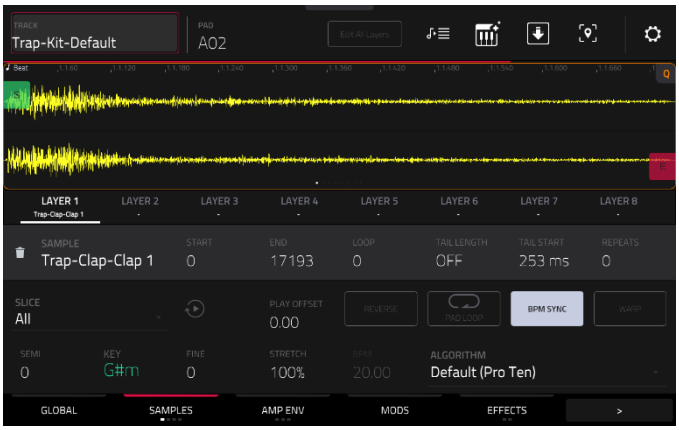
   To assign samples to additional pads, repeat Steps 3–4.

Tip: Remember that a drum track has 128 pads total—16 pads across eight banks.

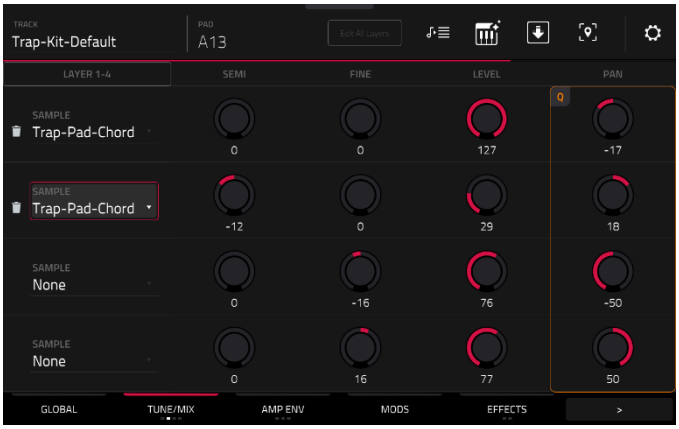


Alternatively, assign samples in a drum track in Track Edit Mode in one of these two ways:

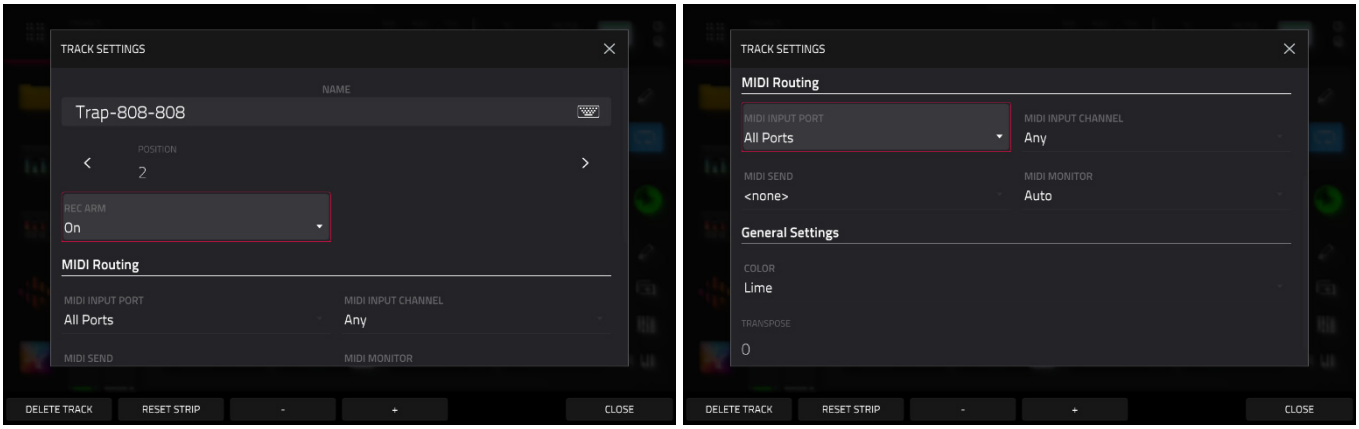
1. Press **Menu**, and then tap **Track Edit** to enter ***Track Edit Mode***.
2. Tap the **Samples** tab. This lets you view the samples assigned to all eight layers of the current pad as well as tuning and level parameters for each layer.
3. Tap a pad to select it (and play its assigned samples, if any).
4. Tap one of the **Layer 1–8** fields under the sample waveform to select a layer. Tap the **Sample** field, and then use the **data dial** or **–/+** buttons to select a sample. Alternatively, double-tap the field for a layer, and then tap a sample to select it.



1. Press **Menu**, and then tap **Track Edit** to enter ***Track Edit Mode***.
2. Tap the **Samples** tab until one of the last three pages are selected. This lets you view the samples assigned to all eight layers of the current pad as well as other parameters for each layer depending on the page.
3. Tap a pad to select it (and play its assigned samples, if any).
4. Tap the **Layer 1–4/5–8** button to toggle between groups of layers. Tap a **Sample** field, and then use the **data dial** or **–/+** buttons to select a sample. Alternatively, double-tap the field for a layer, and then tap a sample to select it.



Keygroup Tracks



Settings:

Tap the track **name** field to rename the track. Use the virtual keyboard that appears to enter a new name, and then tap **Do It** to confirm or the gray bar at the top of the screen to cancel.

Use the **Position** field to change the location of the track, moving the other tracks in relation.

Use the **Rec Arm** field to arm (**On**) or disarm (**Off**) the track for recording.

Use the **MIDI Routing** fields to edit the MIDI routing for the track:

MIDI Input Port: Select the MIDI port from which to receive MIDI data. When set to **All Ports**, the track will receive all incoming MIDI Data from any connected port. To view and edit the available ports, go to ***Preferences*** > ***MIDI / Sync***.

MIDI Input Channel: Sets the MIDI Channel from which to receive MIDI data. Select **Any** to receive from any MIDI channel, or select **1**–**16**.

MIDI Send: Sets where the MIDI data is sent. You can use this to send the MIDI data from one track to another track.

Use the **MIDI Monitor** field to set the monitoring behavior of the track:

Off: The track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

In: The track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

Auto: The track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.

Merge: The track's MIDI input is always monitored, and playback of recorded events will be heard.

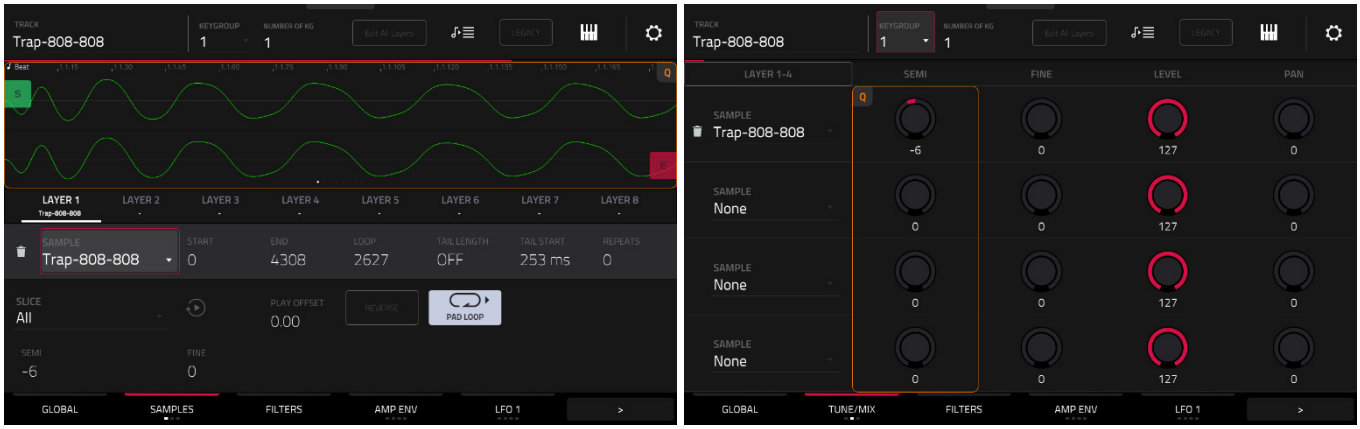
Use the **Color** field to change the track color.

Use the **Transpose** field to adjust the transposition amount of the track.

Tap **Delete Track** at the bottom of the screen to remove the track.

Tap **Reset Strip** at the bottom of the screen to reset all mixer settings for the track.

Tap the **-/+** buttons at the bottom of the screen to move to the previous or next track.



To assign samples in a keygroup track:

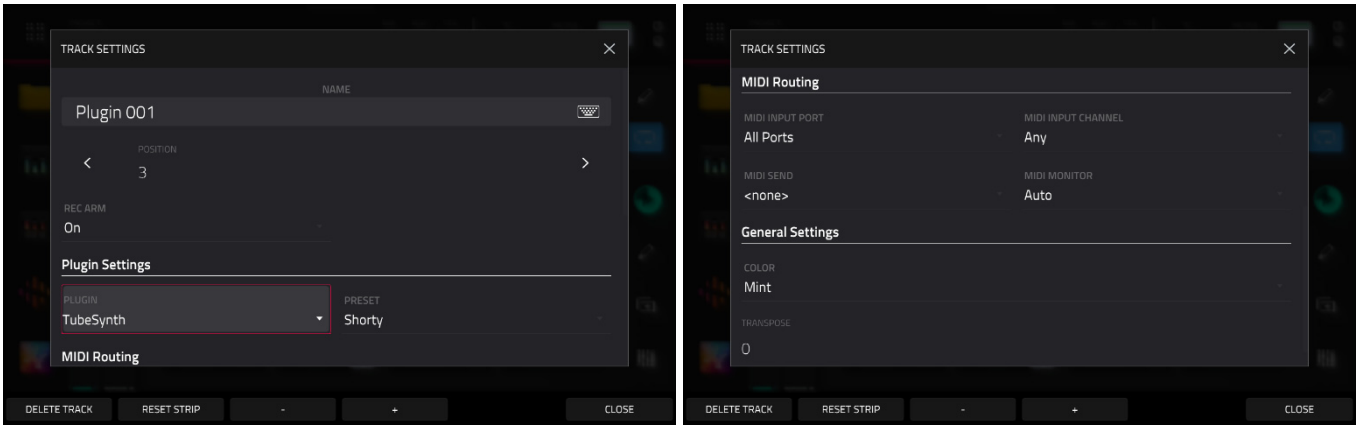
1. Press **Menu**, and then tap **Track Edit** to enter ***Track Edit Mode***.
2. Tap the **Samples** tab. This lets you view the samples assigned to all eight layers of the current keygroup as well as other parameters for each layer depending on the selected page.
3. Use the **Number of KG** field to set the number of keygroups in the track (**1–128**).
4. Use the **Keygroup** field to select a keygroup.
5. Tap the **Layer 1–4/5–8** button to toggle between groups of layers. Tap a **Sample** field, and then use the **data dial** or **–/+** buttons to select a sample. Tap the field for a layer, and then use the **data dial** or **–/+** buttons to select a sample. Alternatively, double-tap the field for a layer, and then tap a sample to select it.

To create complex keygroup track, you can add more keygroups (up to 128). This is useful when working with multi-samples (e.g., when programming a real piano).

Tip: Remember that a keygroup track offers up to 128 keygroups, and each keygroup can hold up to eight samples (Layers 1–8). This is a total of 1024 samples.

Plugin Tracks

To learn more about the plugins included with MPC, see ***Appendix > Plugins***.



Settings:

Tap the track **name** field to rename the track. Use the virtual keyboard that appears to enter a new name, and then tap **Do It** to confirm or the gray bar at the top of the screen to cancel.

Use the **Position** field to change the location of the track, moving the other tracks in relation.

Use the **Plugin** field to open the Plugin window to select a plugin for the track.

Tap **Type** or **Manufacturer** to sort your plugins by type or maker.

Tap **Select** to select the plugin, or tap **Close** to cancel.

Use the **Preset** field to select a Preset from the loaded plugin.

Use the **Rec Arm** field to arm (**On**) or disarm (**Off**) the track for recording.

Use the **MIDI Routing** fields to edit the MIDI routing for the track:

MIDI Input Port: Select the MIDI port from which to receive MIDI data. When set to **All Ports**, the track will receive all incoming MIDI Data from any connected port. To view and edit the available ports, go to ***Preferences > MIDI / Sync***.

MIDI Input Channel: Sets the MIDI Channel from which to receive MIDI data. Select **Any** to receive from any MIDI channel, or select **1**–**16**.

MIDI Send: Sets where the MIDI data is sent. You can use this to send the MIDI data from one track to another track.

Use the **MIDI Monitor** field to set the monitoring behavior of the track:

Off: The track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

In: The track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

Auto: The track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.

Merge: The track's MIDI input is always monitored, and playback of recorded events will be heard.

Use the **Color** field to change the track color.

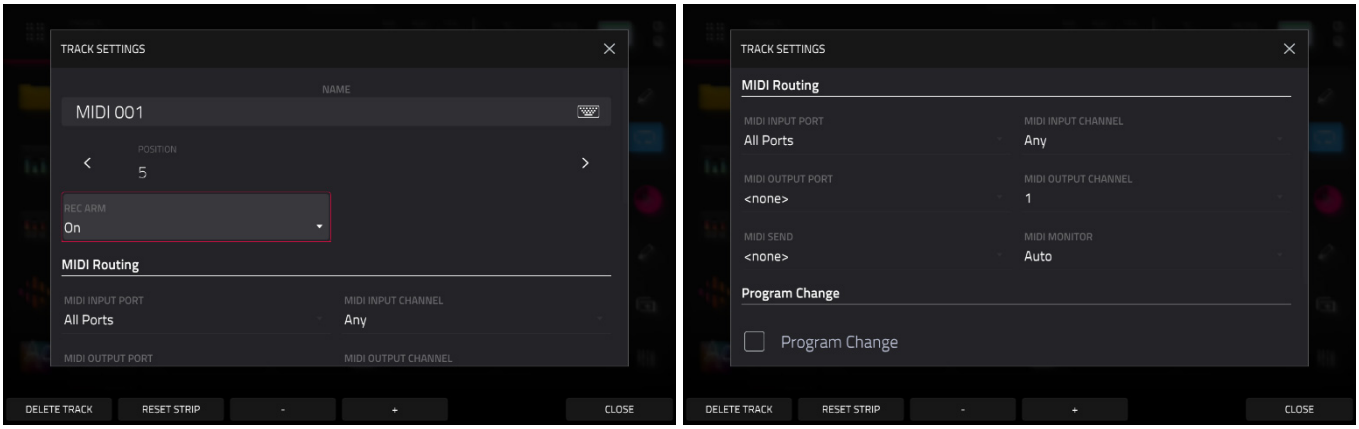
Use the **Transpose** field to adjust the transposition amount of the track.

Tap **Delete Track** at the bottom of the screen to remove the track.

Tap **Reset Strip** at the bottom of the screen to reset all mixer settings for the track.

Tap the **-/+** buttons at the bottom of the screen to move to the previous or next track.

MIDI Tracks



Settings:

Tap the track **name** field to rename the track. Use the virtual keyboard that appears to enter a new name, and then tap **Do It** to confirm or the gray bar at the top of the screen to cancel.

Use the **Position** field to change the location of the track, moving the other tracks in relation.

Use the **Rec Arm** field to arm (**On**) or disarm (**Off**) the track for recording.

Use the **MIDI Routing** fields to edit the MIDI routing for the track:

MIDI Input Port: Select the MIDI port from which to receive MIDI data. When set to **All Ports**, the track will receive all incoming MIDI Data from any connected port. To view and edit the available ports, go to ***Preferences*** > ***MIDI / Sync***.

MIDI Input Channel: Sets the MIDI Channel from which to receive MIDI data. Select **Any** to receive from any MIDI channel, or select **1**–**16**.

MIDI Output Port: Select the MIDI port to send MIDI data to. To view and edit the available ports, go to ***Preferences*** > ***MIDI / Sync***.

MIDI Output Channel: Sets the MIDI Channel to send MIDI data to. Select **Any** to receive from any MIDI channel, or select **1**–**16**.

MIDI Send: Sets where the MIDI data is sent. You can use this to send the MIDI data from one track to another track.

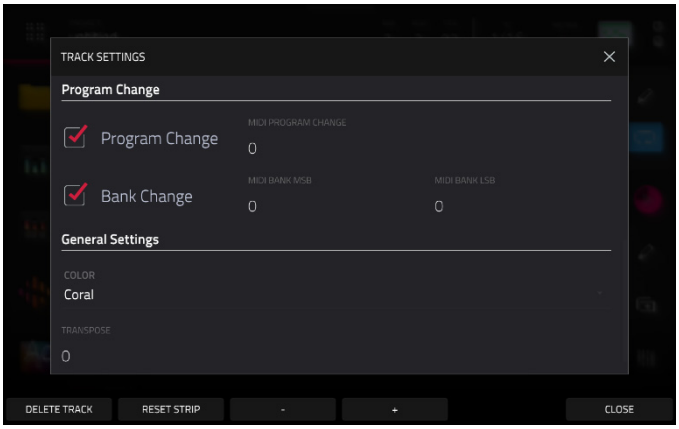
Use the **MIDI Monitor** field to set the monitoring behavior of the track:

Off: The track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

In: The track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

Auto: The track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.

Merge: The track's MIDI input is always monitored, and playback of recorded events will be heard.



To select a MIDI program change value for the track to send, check the **Program Change** box to enable program changes, and then double-tap the **MIDI Program Change** field. Use the number pad that appears to enter a value from **1**–**127**, then tap **Do It**. The track will send this value when played. Once enabled, you can also select a MIDI bank change value by checking the **Bank Change** box to enable bank changes, and then use the **MIDI Bank MSB** and **MIDI Bank LSB** fields to set the bank change values.

Use the **Color** field to change the track color.

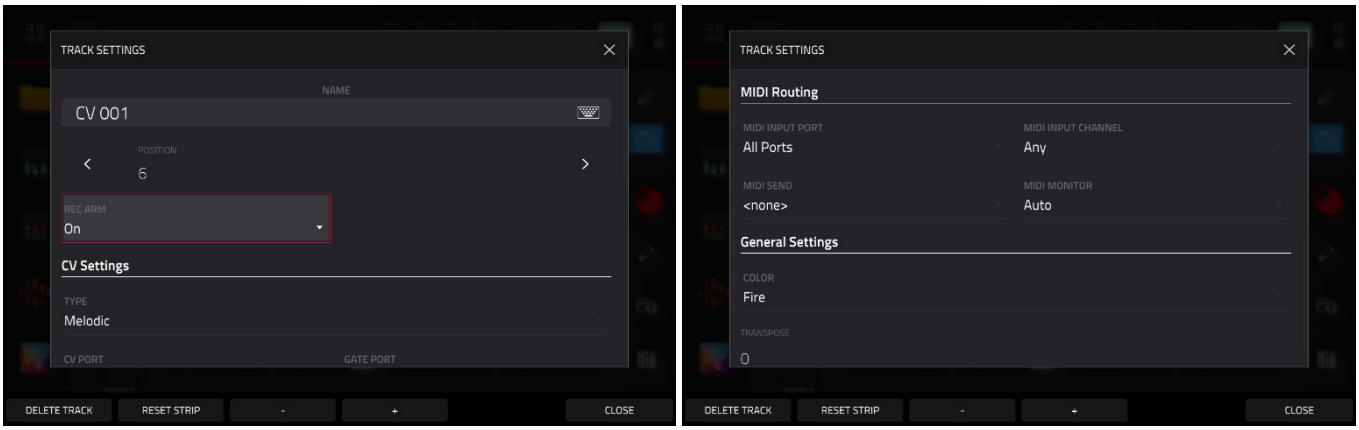
Use the **Transpose** field to adjust the transposition amount of the track.

Tap **Delete Track** at the bottom of the screen to remove the track.

Tap **Reset Strip** at the bottom of the screen to reset all mixer settings for the track.

Tap the **-/+** buttons at the bottom of the screen to move to the previous or next track.

CV Tracks



Settings:

Tap the track **name** field to rename the track. Use the virtual keyboard that appears to enter a new name, and then tap **Do It** to confirm or the gray bar at the top of the screen to cancel.

Use the **Position** field to change the location of the track, moving the other tracks in relation.

Use the **Rec Arm** field to arm (**On**) or disarm (**Off**) the track for recording.

Use the **Type** field to select **Melodic** or **Drum** CV track operation. Melodic CV tracks behave the same as previous MPC versions. Drum CV tracks can be used to configure any pad to output on any CV port.

When Melodic type is selected, there are five additional settings to configure for a CV track: the **CV Port**, the **Gate Port**, the modulation wheel port (**Mod Wheel Port**), **Velocity Port** and **Note Priority**. Tap each field and use the **data dial** or **-/+** buttons to edit the setting.

When **Drum** type is selected, tap the **Edit Map** button to assign each pad to a specific CV port and data type.

Use the **MIDI Routing** fields to edit the MIDI routing for the track:

MIDI Input Port: Select the MIDI port from which to receive MIDI data. When set to **All Ports**, the track will receive all incoming MIDI Data from any connected port. To view and edit the available ports, go to ***Preferences*** > ***MIDI / Sync***.

MIDI Input Channel: Sets the MIDI Channel from which to receive MIDI data. Select **Any** to receive from any MIDI channel, or select **1–16**.

MIDI Send: Sets where the MIDI data is sent. You can use this to send the MIDI data from one track to another track.

Use the **MIDI Monitor** field to set the monitoring behavior of the track:

Off: The track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

In: The track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

Auto: The track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.

Merge: The track's MIDI input is always monitored, and playback of recorded events will be heard.

Use the **Color** field to change the track color.

Use the **Transpose** field to adjust the transposition amount of the track.

Tap **Delete Track** at the bottom of the screen to remove the track.

Tap **Reset Strip** at the bottom of the screen to reset all mixer settings for the track.

Tap the **-/+** buttons at the bottom of the screen to move to the previous or next track.

Menu

The Menu displays the available modes in MPC, as well as project information, hardware information, preferences, save and load options, and more.

To open the Menu, press **Menu**, or tap the icon in the upper-left corner of the screen while in ***Main Mode***.

When viewing the Menu, do any of the following:

To enter a mode, tap it.

To return to the previous mode, tap ← in the upper-left corner, or press **Menu** again.

To change menu pages, tap the **<** or **>** arrows.

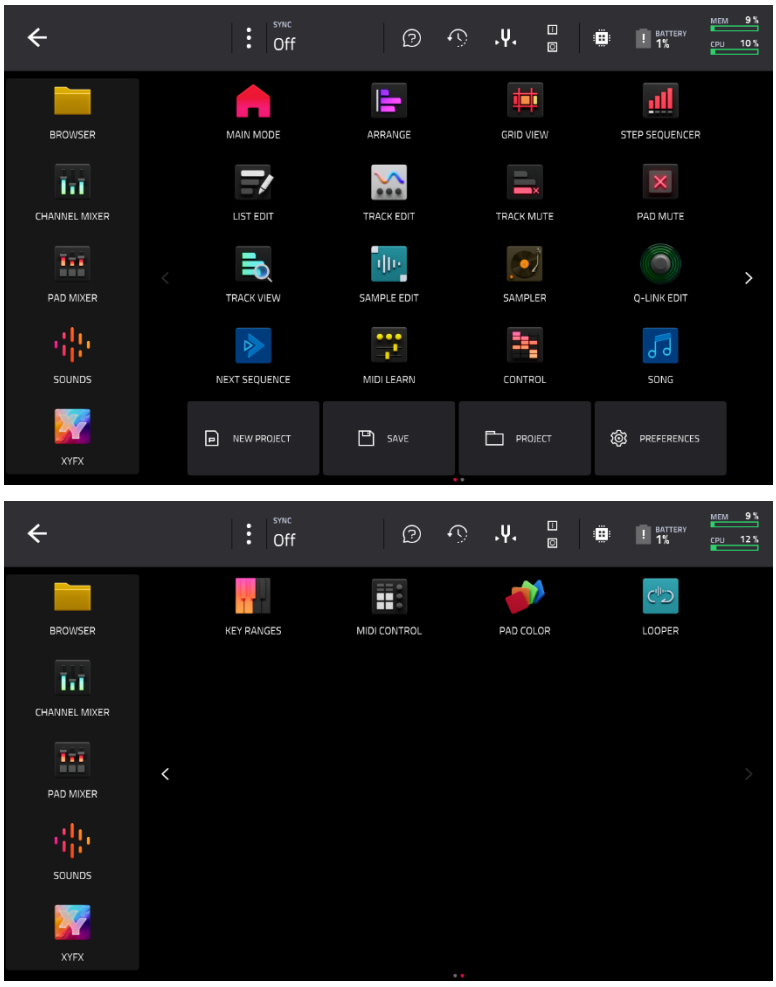
Tap **New Project** to open a new project.

Tap **Save** to open the ***Save Window***.

Tap **Project** to open the ***Project*** window.

Tap **Preferences** to open the ***Preferences*** menu.

To rearrange the menu layout, tap and drag a mode icon to the desired location. All other mode icons will shift to accommodate the new positioning. The five modes on the left side are also available to access in most screens by swiping the black touch handle to the right from the left edge of the touchscreen. Tap the **three-dots icon** next to the **Sync** setting and then tap **Reset Mode Menu** to revert all layout changes.



Click a part of the screen above to skip directly to that part of this user guide.

Toolbar

Sync

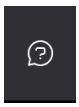
Tap the **Sync** field (in the center of the top of the screen) and then turn the **data dial** or use the **–/+** buttons to set whether your MPC hardware receives MIDI Clock information (**MIDI Clock**), MIDI Time Code information (**MTC**), communication from **Ableton Link**, or none of these (**Off**). Alternatively, double-tap **Sync** and tap the desired option to select it.

This is the same setting as the **Receive** menu in the ***Preferences*** > ***MIDI / Sync*** tab.

Note: Ableton Link is a technology that synchronizes beat, phase, and tempo of Ableton Live and Ableton Link-enabled applications over a wireless or wired network. See ***Preferences*** > ***Wi-Fi*** or ***Preferences*** > ***Ethernet*** to learn how to connect to a network.

Help

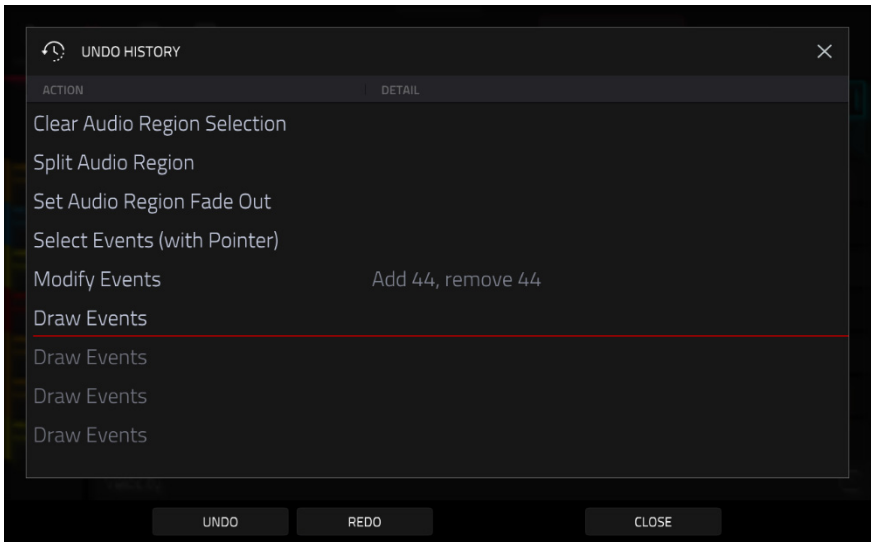
Tap the **?** icon to open the Help window. Scan the QR code that appears to open this User Guide.



Tap **Close** or the **X** to close the Help window.

Undo History

Tap the **clock icon** at the top of the screen to open the Undo History window. In the Undo History window, you can view a list of recent actions along with a detail about the action if applicable.



Tap **Undo** to undo an action.

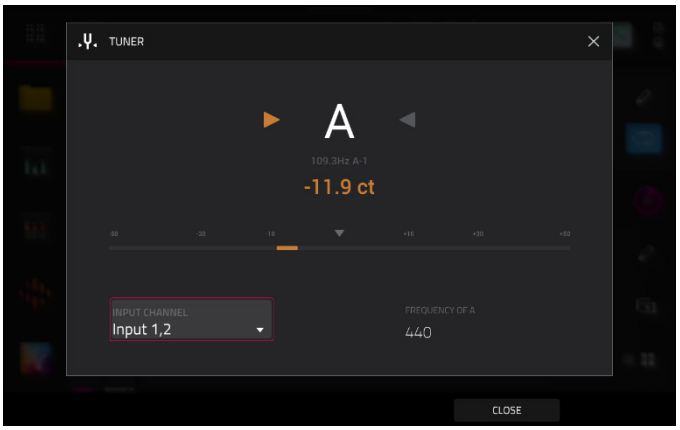
Tap **Redo** to redo an action.

Alternatively, tap and drag the **red line** in the action list to quickly undo or redo multiple actions. Actions below the red line in grey have been undone.

Tap **Close** or the **X** to close the Undo History window.

Tuner

Tap the **tuning fork** at the top of the screen to open the built-in tuner. The tuner allows you to easily tune any connected audio sources such as guitars, basses, synth modules, and other pitched instruments.



To tune your instrument, play a note and use the indicator to adjust your instrument to the correct pitch.

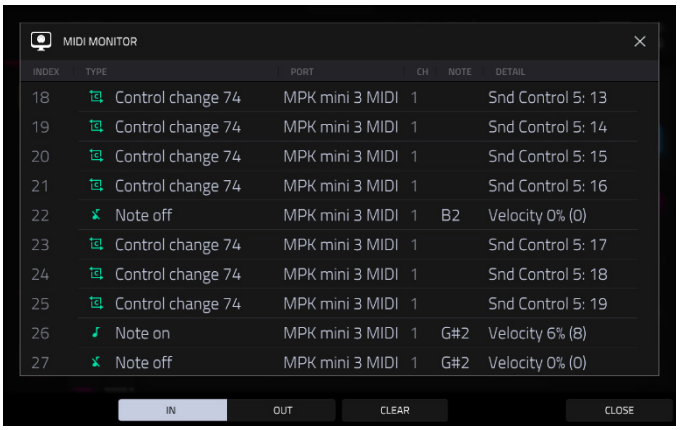
Use the **Input Channel** field to select the input for the instrument you would like to tune.

Use the **Frequency of A** field to set the base tuning frequency.

Tap **Close**, the **X** in the upper-right corner, or anywhere outside the window to close the tuner screen.

MIDI Monitor

Tap the **I/O icons** to open MPC's MIDI monitor. You can use this to view incoming and outgoing MIDI data from devices connected to your MPC hardware.



Tap the **In** button to view incoming MIDI data.

Tap the **Out** button to view outgoing MIDI data.

Tap the **Clear** button to clear the list of MIDI data.

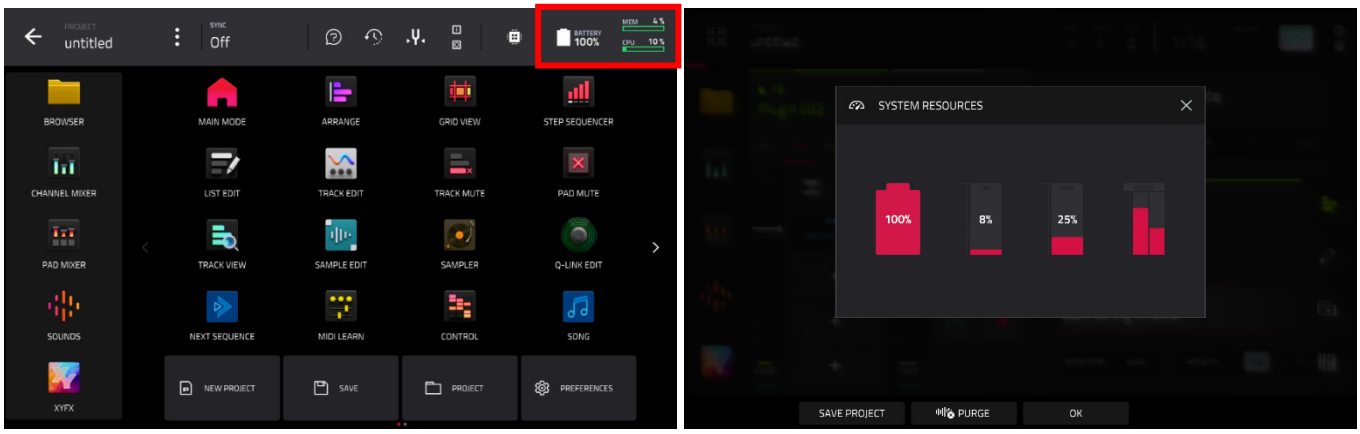
Tap the **Close** button or the **X** to close the MIDI Monitor.

Mode

Tap this icon to switch MPC to Controller Mode. In the screen that appears, select whether you want to continue to **Controller Mode** or **Cancel** and return to your current mode and project. It is recommended to save your project before switching to Computer Mode since you cannot freely switch between Standalone and Controller Modes without also closing your current project.

System Resources

Tap one of these icons to show the System Resources window for MPC.



The indicators in this window show current usage statistics:

Battery: If you are using MPC Live/Live II, the first indicator shows the current **battery life** as a percentage. If these are connected to power, it will also show the charging status. (See ***Battery Usage*** to learn more about MPC Live/Live II's internal battery.)

CPU: The **CPU** indicator shows the current **CPU** as a percentage.

RAM Usage: The **Mem** indicator shows your MPC hardware's current RAM usage.

Important: If you encounter a warning that there is not enough memory to complete an action while using your MPC hardware, do the following to make more memory available:

Make sure all audio tracks in your project are **not** record-armed.

Remove unused samples from your project's sample pool that were there before the warning appeared, and discard unused regions of samples that have been loaded within the project.

If you are still seeing the warning, do the following:

1. **Manually** undo the last action you performed before seeing the warning (you may not be able to use the **Undo** button for this due to how the undo history is stored in RAM).
2. Save your project.
3. Do one of the following, and then load your saved project again.
   - Open the **Menu**, and then tap **New Project** at the bottom of the screen.
   - Power your MPC hardware off and then on again.
   - Press **Menu** and then tap the **gear icon** to open the **Preferences**. In the Preferences, tap **Reset** at the bottom of the screen, tap **OK**, and then tap **Restart** to reset the Preferences.
   - Enter Controller Mode and then reenter Standalone Mode.

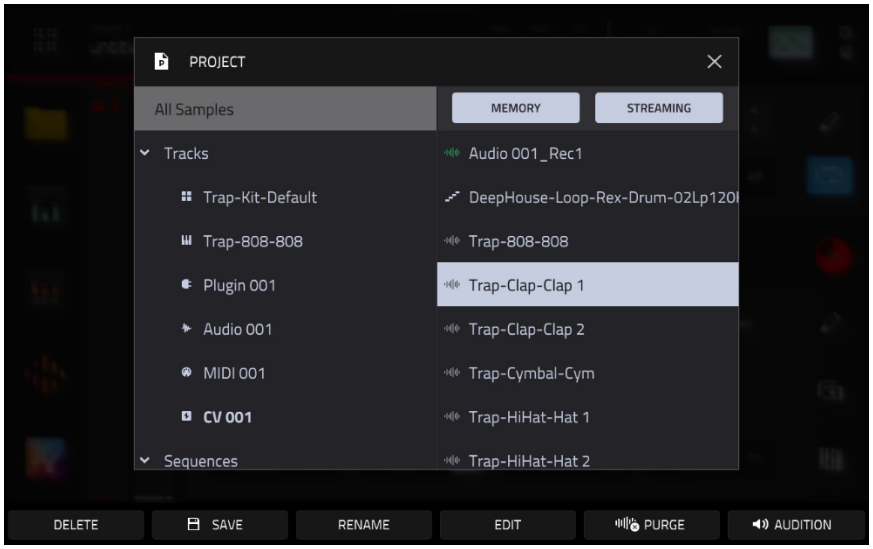
Important: Although you can load multiple files at once, any samples you load into a project will be automatically converted to full-quality uncompressed audio files, so they may use more storage space than they do on your external storage device. If you are unable to load multiple files at once due to this, select fewer files and try again.

Drives: The **Drives** indicator shows the available storage space on any detected external storage devices or the internal drive of your MPC hardware.

To delete samples from the project (to create more free RAM space for sampling time, audio recording, etc.), tap **Purge**. In the screen that appears, tap **Unused Samples** to delete all unused samples from the project, tap **All Samples** to delete all samples from the project (from all tracks, sequences, and audio or MIDI tracks), or tap **Cancel** to return to the previous screen.

To close the System Resources window, tap **OK**, the **X** in the upper-right corner, or anywhere outside the window.

Project



To open the Project window, tap the **Project** button at the bottom of the Menu. The Project window shows an overview of all samples and tracks in the current project.

Tap **Purge** to delete samples from the project (to create more free RAM space for sampling time, audio recording, etc.). In the screen that appears, tap **Unused Samples** to delete all unused samples from the project, tap **All Samples** to delete all samples from the project (from all kits and audio or MIDI tracks), or tap **Cancel** to return to the previous screen. Alternatively, tap to select a sample and then tap **Delete** at the bottom of the screen.

Tap **Memory** and **Streaming** to show or hide files in memory or streaming from disk. Before doing this, you must first enable Disk Streaming by going to **Menu > Preferences > Audio/Export** and checking the **Enable Disk Streaming** box. Disk streaming allows audio files to be streamed from a disk drive rather than from memory.

Note: Disk streaming relies on the performance of the disk you are streaming from. For best operation, it is recommended to use an SSD (solid-state drive) connected to your MPC's internal SATA port (if available). Once you have saved a project to your SSD, your files will stream from that location. For an unsaved project, MPC uses a temporary file location from which to stream audio files. Go to ***Menu > Preferences > Project Load/Save*** and set the **Temporary File Location** to your SSD for best results.

To change a sample from streaming from memory to streaming from disk, tap and hold on a sample name in the **Project** list, and then select **Stream From Disk** in the menu that appears. A sample's streaming or memory state will be saved and recalled with your project.

Note: Using streamed samples with Drum and Keygroup tracks may cause performance issues when triggering multiple samples or retriggering at high rates.

If a project is too large to be loaded into memory, your MPC hardware will load the project and display the missing samples in the **Project** window with a waveform with a red minus icon. Once enough memory has been freed up, the missing samples can then be loaded from the Project window. Tap and hold on the sample name and then select **Load To Memory** from the menu that appears.

Tap a sample or select it using the **data dial** or **-/+** buttons to preview it.

Tap **Save** at the bottom of the screen to save the selected sample.

Tap **Rename** at the bottom of the screen to rename the selected sample. Use the keyboard that appears to enter a name and then tap **Do It** to confirm.

Tap **Edit** at the bottom of the screen to open Sample Edit mode to edit the selected sample.

Tap **Audition** at the bottom of the screen to open the Audition settings.

Tap **Auto** to enable or disable automatic audition when a sound is selected.

Tap and drag the **level slider** up or down to set the audition volume level.

Tap **Sync** to enable or disable auditioning samples at the beginning of the next bar of the sequence when playback is active.

Tap **Warp** to enable or disable samples with an embedded tempo to be warped to the project tempo. Samples with no embedded tempo or externally-embedded tempo will not be affected by this setting.

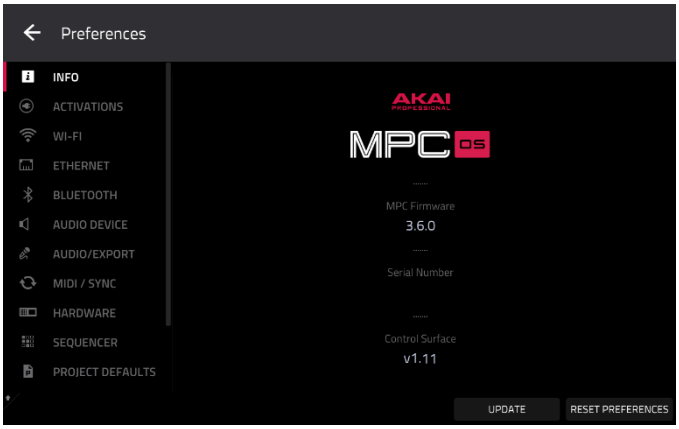
Tap the **Audition icon** once more to hide the window.

Preferences

To open the Preferences, tap the **Preferences** at the bottom of the Menu.

To return to the Menu, tap the ← **icon** in the upper-left corner. Changes to the **Preferences** are saved automatically.

To restore your MPC hardware's default settings, tap **Reset Preferences**. In the screen that appears, tap **OK** to continue or **Cancel** to return to the Preferences. In the next window, tap **Save** to save your current project before restoring the default settings; tap **Cancel** to return to the Preferences; or tap **Don't Save** to restore the default settings without saving your current project.



Info

This screen shows current information about your MPC hardware: its current firmware version, which includes its standalone operating system (**MPC Firmware**); its hardware **Serial Number**; and its current firmware for the **Control Surface**.

Tap **Update** to update your MPC.

Select **Online Update** to automatically download and install the latest update (you must enable a network connection for this to work).

Select **USB Drive Update** to update from a file on a connected USB drive.

Select **Switch to Update Mode** to connect your MPC to your computer for updating. In the screen that appears, tap **Save** to save your current project before entering Update Mode; tap **Cancel** to return to the Preferences; or tap **Don't Save** to enter Update Mode without saving your current project.

Tap **Reset Preferences** to reset all MPC preferences to their default settings.

To view legal information relevant to MPC, press and hold **Shift** and tap **Legal Info**. For complete legal information, visit **akaipro.com/product-legal**.

To view additional version information, press and hold **Shift** and tap **Version Info**.

Activations

The settings on this screen allow you to sign in to your inMusic Profile to activate purchased plugin licenses.

1. First, make sure you are connected to a ***Wi-Fi*** or ***Ethernet*** network.
2. In the Activate Plugins menu, tap the **Log In** button to log into your inMusic Profile. You can scan the QR code with a mobile device or open the URL shown on the page in a browser of your choice. Enter the code shown on your device and log into your account. If you do not already have an account, you will be prompted to create one.
3. Once you have been logged in, you can try out plugin instruments through a free trial, or activate your purchases.

   To start a trial, tap the **Get Trial** button next to the desired plugin.

   To register a purchase, use the **Enter Serial** field to enter your serial number and then tap **Register**.

   To refresh the page with your latest purchases or activations, tap **Refresh**.

   To activate a plugin on your device, tap the **Activate** button next to its name. Tap **Deactivate** to remove the plugin activation from your device.

   To download a purchase to your device, first tap the **Change** button at the bottom of the touchscreen to select a Content Download Drive. This can be the internal storage drive or a connected SATA drive, USB drive, or SD card. Then, tap the **download icon** to begin downloading the plugin to your drive. The download icon will change to show the installation progress. Once the process is complete, you can use your plugin with standalone MPC.

   To log out of your account, tap **Log Out**.

Wi-Fi

The settings on this screen will determine how your MPC hardware's wireless connection works, so you can use Ableton Link, a technology that synchronizes beat, phase, and tempo of Ableton Live and Ableton Link-enabled applications over a wireless or wired network.

Tap the **On**/**Off** selector to activate or deactivate wireless connectivity on your MPC hardware. The available wireless networks will appear in the panel below it.

Tap the desired wireless network to select it, then tap **Connect** to connect to it. If the Wi-Fi network is password-protected, use the virtual keyboard that appears to enter the correct password to connect to it. Tap **Show** to display the password as you type it.

To view the information of a selected wireless network, press and hold **Shift** and tap **Info**. The **Network Information** window that appears will show the network name, IPv4/IPv6 address (including the subnet mask and gateway), type of security, and signal strength (as a percentage).

To disconnect from a connected wireless network, select it and then tap **Disconnect**.

To clear the connection information (e.g., the password) **from a selected wireless network**, select it and then tap **Forget**.

Ethernet

The settings on this screen will determine how your MPC hardware connects to a wired network using a USB-to-Ethernet adapter or Ethernet cable (MPC One, MPC Live II, MPC Key 61 only). This allows you to maintain a tighter network connection when using Ableton Link or the Akai Network Driver. These settings are available only for MPC X, MPC X SE, MPC Live, MPC Live II, MPC One, MPC One+, MPC Key 61, and MPC Key 37 when used in Standalone Mode.

To activate or deactivate Ethernet connectivity on your MPC hardware, tap the **Enabled** box.

To determine how your MPC hardware connects to the network, use the **Address Method** dropdown. Select **Automatic** to have your MPC hardware set the Ethernet connection, or **Manual** to set it yourself.

When setting the Ethernet connection manually, tap the **IP Address**, **Subnet Mask**, **Gateway**, and **DNS** fields to input the values.

Bluetooth

The settings on this screen will determine how your MPC hardware's Bluetooth connection works, so you can use Bluetooth MIDI controllers (e.g., LPD8 Wireless or LPK25 Wireless) or a Bluetooth computer keyboard with it. These settings are available only for MPC X, MPC X SE, MPC Live, MPC Live II, MPC One+, MPC Key 61, and MPC Key 37 when used in Standalone Mode.

To activate or deactivate Bluetooth connectivity on your MPC hardware, tap the **On**/**Off** selector. The available Bluetooth devices will appear in the panel below it under **Available Devices**. The Bluetooth devices that have already paired to your MPC hardware will appear under **Paired Devices**.

To select a Bluetooth device, tap it.

To pair a selected Bluetooth device (in the Available Devices section), tap **Pair**.

To connect to a selected Bluetooth device (in the Paired Devices section), tap **Connect**.

To disconnect from a connected Bluetooth device (in the Paired Devices section), tap **Disconnect**.

To return an available Bluetooth device to its original state, tap **Remove**.

Audio Device

The settings on this screen allow you to set up an external USB and Linux class-compliant audio interface for use with your MPC hardware. Audio devices must also be set to 44.1 kHz sample rate and 128 sample buffer size.

Note: If you are unsure of your audio interface's compatibility, check with the original equipment manufacturer for more information.

Audio Device: This determines whether you are using the **Internal** sound device, or a selected class-compliant audio interface connected to your MPC hardware.

32 Inputs/Outputs: Check this box to enable use of up to 32 simultaneous inputs and outputs.

Note: Increasing the number of simultaneous inputs and outputs will also increase CPU overhead.

Audio/Export

The settings on this screen determine the settings for audio, recording, and exporting.

Enable Disk Streaming: This determines whether disk streaming is enabled or disabled. MPC will require a restart after disk streaming is enabled or disabled, which may require you to save or discard changes to the current project. Once enabled, a sample can be set to stream from disk or memory using the ***Project*** window. By default, Drum and Keygroup samples are loaded into memory, as this works better for on-demand, rapid triggering of multiple, simultaneous voices**.**

Note: Disk streaming relies on the performance of the disk you are streaming from. For best operation, it is recommended to use an SSD (solid-state drive) connected to your MPC hardware's internal SATA port, if available. Once you have saved a project to your SSD, your files will stream from that location. For an unsaved project, your MPC hardware uses a temporary file location from which to stream audio files. Go to **Preferences > Project Load/Save** and set the **Temporary File Location** to your SSD for best results.

Recording Bit Depth: This determines the bit depth of recorded audio.

Bounce/Extract Bit Depth: This determines the bit depth of audio bounced or extracted: **16**-bit or **24**-bit.

Audio Export: This determines what part of the sequence is exported when you click the **Export Audio** icon.

Track: When this is selected, **Export Audio** will export the currently shown track in the current sequence.

Main: When this is selected, **Export Audio** will export all tracks in that sequence that use programs routed to main outputs.

Audio Tail Length: This determines the length of an audio tail (silence) that will be applied to the exported audio file. When set to **0**, the audio file will not have any additional audio tail.

Include Track Volume/Pan Settings: When enabled, the exported audio or MIDI file will include its volume and pan settings. When disabled, the volume and pan settings will be set to **0 dB** and center (**C**), respectively.

Bypass Track Effects Plugins: When enabled, the exported audio or MIDI file will include any third-party effect plugins that are used with it, but those effects will be bypassed (deactivated). When disabled, those effects will be activated.

Default Audio Warp Algorithm: This determines the default time-stretching algorithm, which determines how a sample is "warped" when you adjust the length of a sample without changing its pitch (e.g., the **Warp** function in Audio Region Edit Mode for audio tracks or in Track Edit Mode for Drum/Keygroup tracks). Select **Pro Ten** or **Repitch**. When using Repitch, warping an audio sample will adjust its pitch to synchronize it with the MPC tempo. You can override the default algorithm by selecting another option in the **Samples Tab** or ***Track Edit Mode*** or by changing the algorithm in ***Grid View***.

Note: Warp algorithms can be very CPU-intensive, and can result in audio drop-outs during playback if used too freely. Be mindful of how (and how often) you use the warp function.

Audio Track Auto Warp: This determines how recorded audio track regions are warped. When set to **On**, any audio track region that you record will be warped automatically to match the current project tempo. You can then adjust the project tempo while the audio track region remains in time.

Note: When you record an audio file, the current project tempo will be embedded with it. This information is stored within the sample file when you save the project. When you warp an audio track region, the warping algorithm uses this project tempo and the current value in the **BPM** field to generate the "stretch factor."

BPM Auto Detection: This enables automatic detection of BPM from loaded samples.

BPM Detection Range: This defines the range of detectable BPM values when you use any automatic BPM detection function in the software or when you press the **Tap** button to enter a new tempo.

MIDI / Sync

The settings on this screen determine how your MPC hardware uses and synchronizes with connected USB and MIDI devices.

Input Ports: This displays all available MIDI input ports in a list. Double-tap the **keyboard icon** to rename a port to a custom name. When **Global** is enabled, MIDI data from this port will always go to the current track. When **Control** is enabled, MIDI data from this port will be sent to MIDI Learn. When **Track** is enabled, this MIDI port will appear in the list of available MIDI Inputs. Click the **reset arrow** to reset the MDI Port settings.

Output Ports: This displays all available MIDI output ports in a list. Double-tap the **keyboard icon** to rename a port to a custom name. When **Sync** is enabled, the MIDI output port will send MIDI sync messages according to the type set under Sync ***Send***, below. When **Track** is enabled, this MIDI port will appear in the list of available track MIDI outputs. Click the **reset arrow** to reset the MDI Port settings.

Enable MIDI Ports When Discovered: When enabled, any time a MIDI device is plugged in the Track option is automatically enabled so the ports can be selected as an available MIDI input or output.

MIDI Control Mode Output: This determines which MIDI port the MPC hardware is using to send MIDI messages to external MIDI devices.

Receive: This determines whether your MPC hardware receives MIDI Clock information (**MIDI Clock**), MIDI Time Code information (**MIDI Time Code** (**MTC**)), communication from Ableton Link (**Ableton Link**), or none of these (**Off**).

Important: Audio recording is disabled when receiving MIDI Clock sync. Use MIDI Time Code to record audio while receiving MIDI sync.

Ableton Start/Stop Sync: When enabled, this allows devices connected with Ableton Link to share start/stop commands.

Receive MMC: When enabled, your MPC hardware will be able to receive MIDI Machine Control (MMC) information. When disabled, your MPC hardware will not receive this information. See ***Appendix > MIDI Machine Control (MMC)*** to learn about this.

Send: This determines whether your MPC hardware sends MIDI Clock information (**MIDI Clock**), MIDI Time Code information (**MIDI Time Code** (**MTC**)), or neither (**Off**).

Send MMC: When enabled, your MPC hardware will be able to send MIDI Machine Control (MMC) information. When disabled, your MPC hardware will not send this information. See ***Appendix > MIDI Machine Control (MMC)*** to learn about this.

MTC Frame Rate: This determines the frame rate used by MIDI Time Code (MTC), which is important for correct timing, especially when working on film scoring projects. In most cases, you should select **25**.

Start Time: This is the starting time that will be sent when **Send MIDI** is set to anything other than **Off**. The time is formatted in **hours**:**minutes**:**seconds**:**frames**.

Filter 'All Notes Off' CC: When enabled, "All Notes Off" ("MIDI panic") messages will be ignored. This is useful if you are using an external MIDI device that can send these types of messages, but you want to filter them out. When disabled, "All Notes Off" messages will be received normally.

Program Change: This determines what an incoming MIDI program change message will change: a **Sequence** or **Track**.

Hardware

The settings on this screen determine the behavior of your MPC hardware's pads and touchscreen.

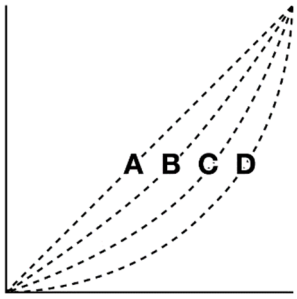
Pad Brightness: This determines the overall brightness of your MPC hardware's pads.

Battery Brightness Factor (MPC Live/Live II only)**:** This determines how much the overall brightness is reduced when operating on battery power.

Pad Threshold: This determines how much force is required to strike the pads for them to trigger.

Pad Sensitivity: This determines how the pads respond to touch. At lower values, you need to use more force to generate a high-velocity note. At higher values, it is easier to generate high-velocity notes, even if you do not use much force while pressing a pad.

Pad Curve: This determines how striking the pads translates into velocity values. The **A** curve is essentially linear, while the **B**, **C**, and **D** curves are exponential (see graphic here).



Velocity & **Aftertouch**: View these meters when striking and pressing the pads to help gauge the force and pressure you are applying to them. These meters are useful when adjusting the Pad Threshold and Pad Sensitivity parameters (above).

Footswitch 1 & **Footswitch 2** (MPC X/X SE only): These determine how connected footswitches will work.

Battery Power & **Wall Power Dimming**: These settings determine how much time must pass before your MPC automatically dims its touchscreen when on battery power (MPC Live/Live II only) and wall power.

Battery Power & **Wall Power Brightness**: These settings determine the brightness of the screen during normal operation while on battery power (MPC Live/Live II only) and wall power: **Dimmest**, **Dim**, **Bright**, or **Brightest**.

Power On Screen (MPC Live, MPC Live II only): This determines if/when a special screen will appear when you power on your MPC Live/Live II. On this screen, you must tap and hold a button for a moment to begin using MPC Live/Live II or it will automatically power off. This feature prevents it from powering on accidentally and wasting battery life. You can set it to the following options:

- **Never**: The screen will never appear.
- **When On Battery**: The screen will appear only if you power on MPC Live/Live II while using battery power.
- **Always**: The screen will always appear.

Tap Tempo: This determines how many times you must press the **Tap** button before the new tempo is recognized.

Flash Tap Tempo Light: When enabled, the **Tap** button's light will flash in time with the tempo. When disabled, the **Tap** button's light will be off.

Bank Button Press: This determines how the **Pad Bank** buttons work.

Select A-D: Pressing a **Pad Bank** button once will select the corresponding bank from Pad Banks A–D. Pressing and holding **Shift** while pressing a **Pad Bank** button will select the corresponding bank from Pad Banks E–H.

Select/toggle bank: Pressing a **Pad Bank** button will alternate between the corresponding bank from Pad Bank A–D and Pad Bank E–H. In other words, you do not need to hold Shift to select one of Pad Banks E–H.

Shift + Q-Link Press: This setting determines whether pressing **Shift** and the **Q-Link button** opens **Q-Link Edit** or **Cycles Backwards** between the Q-Link columns.

Global Pitch Bend: Enable this option to override the pitch bend settings of all tracks, so that those with pitch bend disabled or set to different ranges will only use the Global Range instead. When disabled, all tracks may use their individual pitch bend settings.

Range Down / Range Up: Use these fields to determine the range of pitch bend in semitones.

VU Meter Source (MPC X/X SE only): This determines what audio signal level is shown in the level meters (on the right side of the screen). When set to **Main**, the level meters show the audio signal sent out of **Outputs 1/2** (the **Main L/R outputs** on the rear panel). When set to **Current Track**, the level meters show the audio signal of the currently selected track.

Date: This is the current date, formatted as **Month** / **Day** / **Year**. When saving files on MPC in Standalone Mode, the file will include the current date in its metadata. If you use MPC in Controller Mode, this setting will be overwritten with the current date of the host computer.

Time: This is the current time, formatted as **Hour** : **Minute**. When saving files on MPC in Standalone Mode, the file will include the current time in its metadata. If you use MPC in Controller Mode, this setting will be overwritten with the current time of the host computer.

Time Zone: This is the current time zone, formatted as **Continent** / **City**, which you can change here.

Sequencer

The settings on this screen determine how sequencing works in the ***Grid View*** and in the ***Step Sequencer***.

Note Length (Playback): This determines if/how events are cropped if they exceed the length of the current track during playback.

As Recorded: Events will play back exactly as they were recorded, even if they overlap themselves when the sequence loops.

Truncate Length: If the length of an event exceeds the length of the sequence, it will be truncated. This ensures that the event will not overlap itself when the sequence loops.

Track Mute State Per Sequence: When enabled, you can maintain separate track mute statuses when changing sequences. This can allow you to create unique mute setups for each sequence, providing greater flexibility in live performance and arrangement creation.

Solo Behavior: This determines the behavior of the Solo buttons. When set to **Single**, only one track can be soloed at a time by default. However, you can still press and hold **Shift** to solo multiple tracks at the same time. When set to **Multi**, you can solo multiple tracks at the same time by default.

Rec Arm Behavior: This determines the behavior of the Record Arm buttons. When set to **Single**, selecting a different track will automatically arm that track and disarm all other tracks. This is the default mode and is the same as previous MPC releases. You can also arm multiple tracks on **Single** mode by holding **Shift** and tapping each track's record button. When set to **Multi**, you can tap any track's record button to add it to the group of armed tracks.

Record Track Mute and Solo Events: When enabled, track mute and solo events are recorded when you are in Track Mute Mode (timing correct settings will affect the recorded position events). When disabled, track mute and solo events will not be recorded while in Track Mute Mode. This feature is useful if you want to use Track Mute Mode to record track mutes or solos into your sequences as opposed to using Track Mute Mode for performance or listening purposes only.

Record Pad Aftertouch Events: When enabled, pad aftertouch data (from the MPC hardware's pressure-sensitive pads) will be recorded. When disabled, pad aftertouch data will be ignored.

Place Events Recorded During Count-In at Start Point: When enabled, pressing a pad during the recording's pre-count will record that note event at the start of the recording (this is how the MPC3000 worked). When disabled, no notes will be recorded until the pre-count is finished and recording has begun.

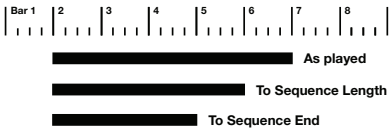
Note: This setting is ignored when recording with the ***Arpeggiator*** active.

Note Length (Recording): This determines if/how events are cropped if they exceed the length of the current Sequence during recording:

Truncate To Sequence Length: If the length of an event exceeds the length of the sequence, it will be truncated. This ensures that the event will not overlap itself when the sequence loops.

Truncate To Sequence End: If an event exceeds the length of the sequence, it will be truncated to the end of the current sequence. In other words, the event will stop playing when the sequence ends or loops.

As Played: Events will play back exactly as they were recorded, even if they overlap themselves when the sequence loops.



For example, if you record a note starting on the second bar of a 4-bar loop and hold it for 5 bars, the note will end: at bar 7 (As Played), at bar 6 (To Sequence Length), or bar 4 (To Sequence End). See image for details.

Q-Link Playhead Increment: This determines how the playhead moves when controlled by the **Q-Link** knob. Select **1/16 Note** to lock playhead movement to 1/16 notes, or select **TC Division** to have the playhead movement tied to the current Timing Correct division. This value can be set in the Timing Correct window in Grid View by tapping the **clock icon** at the bottom-left of the grid.

Q-Link Swing Control Applies TC Settings on Release: When enabled, turning the Q-Link knob assigned to **Swing** and then releasing it will immediately apply that Swing setting. When disabled, you must use the Timing Correct window to apply the Swing setting.

Display Resolution: This is the display resolution (in PPQN—pulses per quarter note) of pulse values in certain areas of the operating system. Please note that this setting affects the display resolution, not the timing.

Project Defaults

The settings on this screen determine various default values for any new project that you create.

Default Tempo: This is the default tempo in BPM.

Default Global Tempo: When enabled, the default tempo value will be used for the global tempo. When disabled, the default tempo will be used for sequences.

Default Mode: This determines the default mode when MPC is powered on; **Main Mode** or **Sounds** mode.

Default Q-Link Mode: This determines the default Q-Link Mode: **Screen**, **Project 1–2**, **Track**, **Pad Scene**, **Pad Parameter**, **Track FX Rack**, **MIDI**, **Volume**, **Pan**, **Send 1–4**.

Default Sequence Bars: This determines the default number of bars of a new sequence.

Default Sequence Loop: This determines whether loop is enabled by default or not.

Default Time Signature Numerator: This determines the default number of beats per bar in the time signature.

Default Time Signature Denominator: This determines the default note value of each beat in the time signature.

Default Pad Slice: This determines how new samples will play when you load them or record them into a project. When set to **Pad**, the **Slice** menu in Track Edit Mode will be set to **Pad**, which lets you set the start point, end point, etc. for the layer. When set to **All**, the **Slice** menu in Track Edit Mode will be set to **All**, in which the entire sample plays.

Default Drum Filter: This determines the default type of filter that drum tracks will use. See ***Appendix*** > ***Glossary*** > ***Filter*** to learn about this.

Default Plugin Synth: This determines the default instrument plugin that a new plugin track will use. Use the window that appears to select it.

Default Audio Monitor: This determines the default audio monitoring behavior: **Off** (default), **In**, **Auto**, or **Merge**.

Default MIDI Monitor: This determines the default MIDI monitoring behavior: **Off**, **In**, **Auto** (default), or **Merge**.

Use Fixed Track/Row Color: Check this box to enable all tracks to be created using a fixed color.

Default Track/Row Color: Use this option to select the default color used when the **Use Fixed Track/Row Color** option is enabled.

Enable Pads User Level By Default: Check this box to enable all pads to play at the set user level by default. Leave this box unchecked to use standard velocity response by default.

Default Pads User Level Velocity: This sets the default pad velocity that is used when the **Enable Pads User Level By Default** setting is on. You can also set the user level velocity by pressing and holding the **Full Level** button on your MPC hardware.

Project Load/Save

The settings on this screen determine if (and how) projects are automatically saved. If you are using MPC hardware as a controller, you can also define files to load automatically.

New Project Behavior: This determines what is loaded when a New Project is selected: and **Empty Project**, the default **Factory Project**, or the **User Auto Load Project** file.

User Auto Load File: Use this field to select a project (**.xpj**) or program (**.xpm**) to load automatically anytime you open the MPC software or your standalone MPC hardware.

Note: If the New Project Dialog setting under **Project Defaults** is set to Demo or Demo/Template/Recent, selecting **Empty Project** will load the Auto Load project if one is selected. If no Auto Load project is selected, choosing **Empty project** will load an empty project. If you have an Auto Load project selected and would still like to create an empty project, press and hold **Shift** and then tap **Empty project**. If the **Project Defaults** is set to **Off**, the Auto Load project will be loaded on startup.

New Project Dialog: This determines what options you see when you start a new project. When set to **Off**, a new project will be empty with no preconfigured settings except for the project defaults shown here. When set to **Demo**, you can choose to load a demo project (from several different genres) as a starting point or an empty project. When set to **Recent,** you can select from recently loaded projects. When set to **Demo/Template/Recent**, you can choose to load a demo project, a project template file, or a recently loaded project. You must have a project in the **Template File** field of the **Project Load/Save** tab to select a template in this window.

Template File: Use this field to select a project template that will load automatically when you select **User Template** in the **New Project Dialog** window. (If you select the **Save as Template** box when saving a file, it will be shown in this field.) For the **User Template** option to be available, **New Project Dialog** (in the **Project Defaults** tab) must be set to **Demo** or **Demo/Template/Recent**.

Temporary File Location: Use this field to select a location on your device or connected external media as a record path for temporary files.

Auto Save Enabled: When enabled, your project will automatically save after each **Timeout** interval. When disabled, your project will not be automatically saved; you may save only manually.

Auto Save Timeout: Use this field to select how often your project will automatically save.

General

The settings on this screen determine how other features work in the hardware and operating system.

Vintage Mode: This determines the type of emulation applied to the audio output. You can apply the particular sonic qualities of, for example, the **MPC3000** or **MPC60**, or of course no emulation (**None**).

Audition Auto Play: This determines how long a sample will sound when auto-previewing it.

Audition Outputs: This determines which pair of outputs will play any auditioned sounds (**Out 1,2–7,8** in Standalone Mode, **Out 1,2–31,32** in Controller Mode; as available). These sounds include: samples, tracks, and projects in the Browser; sample playback, **Cue Preview**, and **Slice Preview** in Sample Edit Mode; and sample playback in the **Keep or Discard Sample** window in the Sampler.

Cue Preview: This determines if/how audio is played as you move the cue playhead. As you move the cue playhead through a sample waveform, you can set it to play the small part of the sample before the cue playhead (**Before**), play the small part of the sample after the cue playhead (**After**), or not play at all (**Off**). You can also set this in Sample Edit Mode (see ***Modes*** > ***Sample Edit Mode*** > ***Settings***).

Slice Preview: This determines if/how audio is played as you move a slice marker. As you move the slice marker through a sample waveform, you can set it to play the small part of the sample before the slice marker (**Before**), play the small part of the sample after the slice marker (**After**), or not play at all (**Off**). You can also set this in Sample Edit Mode (see ***Modes*** > ***Sample Edit Mode*** > ***Settings***).

Show Mode Shortcut Panel: When enabled, you can access the mode shortcut panel by swiping to the right on the grey bar on the left-edge of the screen. You can use the Mode Menu layout editing to put your five most-used modes in this shortcut panel for easy access. This is disabled by default.

BPM Detection Range: This defines the range of detectable BPM values when you use any automatic BPM detection function in the software or when you press the **Tap** button to enter a new tempo.

Show Q-Link Status When Touched: When enabled, touching the Q-Link knobs opens a pop-up showing the current Q-Link assignments and values.

Automation Lane Follows Q-Links: When enabled, touching a Q-Link will automatically show the current automation status in the Grid View automation lane.

Collect Usage Statistics: This determines whether or not your usage statistics will be sent occasionally to us, enabling us to improve the MPC experience.

Splice

The settings on this screen control integration with the Splice platform.

To access Splice from this page:

1. First, make sure your MPC hardware is connected to a Wi-Fi network. See ***Preferences > Wi-Fi*** to learn how to connect to a wireless network. You will also need access to a web browser.
2. Tap the **Get Login Code** button. (If you are not connected to a network, you will be prompted to do so before the Get Login Code button appears.)
3. Follow the on-screen instructions to link your MPC to your Splice account via a web browser. It may take your MPC a few moments to successfully link.
4. A message will appear on screen when the link has been successfully established. Tap **OK** to continue and return to the Splice Preferences page.
5. Once the process is complete and your MPC has been paired to your Splice account, tap the **Sync Files** button to download samples from your Splice account via Wi-Fi to a drive of your choice.

   By default, files will be stored on the Internal drive. You can change the selected drive by tapping the **Change** button under **Sync Files To Drive**.

To browse samples imported from Splice:

1. Open the **Browser**.
2. Under the **Content** tab, tap the **Splice** shortcut icon to view samples downloaded from your Splice account.

   If nothing appears, make sure that you have connected your Splice account and synced your files by following the directions ***above***.
3. The right-side of the browser will display your Splice samples organized into a series of top-level folders, allowing you to easily browse your sample library by BPM, Instrument, Key, Pack or Tag. The **All Your Samples** folder will show a list of all samples you have downloaded.

Note: The original sample files are stored in the **By Pack** folder on your drive. Other folders such as By Instrument contain internal links to help sort the samples by various tags. If the By Pack folder on your drive is deleted, the files in the remaining folders will become unusable. To fully remove all files, the entire Splice directory should be deleted.

IMPORTANT: Drives formatted using the FAT32 system do not support these internal links. For these drives, and on the internal storage drives of some earlier MPCs, samples will only be sorted in the **By Pack** folder. We recommend using an exFAT file system on external drives used with MPC, as it is the most robust one supported by both Windows and macOS.

To view the number of samples available to download from your account, tap the **Check For Update** button.

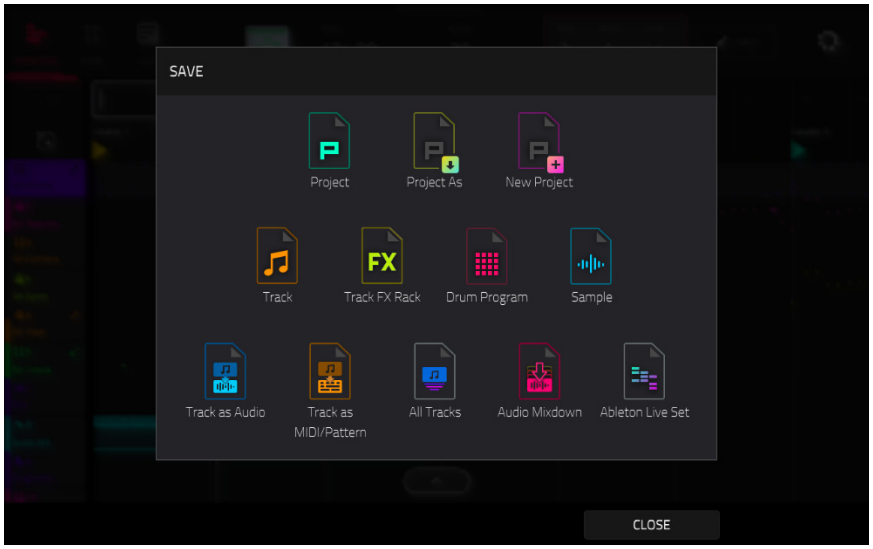
To log out of a Splice account, tap the **Log Out** button.

Save Window

The Save Window lets you save your project, tracks, and samples in a variety of ways.

To open the Save window, press **Menu** to open the Menu and then tap **Save** at the top of the screen.

On MPC Key 37, you can also press the **Save** button.



To save a project, tap **Project** or **Project As**. If a project has not been saved before, both options will open the Save window, described below. If a project has been saved before, tapping **Project** will automatically overwrite the most recently saved version.

Tap **New Project** to open a new project.

Tap **Track** to save the current track.

Tap **Track FX Rack** to save the current track inserts.

Tap **Drum Program** when a Drum track is selected to save the current drum kit.

Tap **Plugin Program** when a Program track is selected to save the current plugin program.

Tap **Keygroup** when a Keygroup track is selected to save the current keygroup.

Tap **MIDI Program** when a MIDI track is selected to save the current MIDI program.

Tap **CV Program** when a MIDI track is selected to save the current CV program.

Tap **Sample** when an audio sample is selected to save it.

Tap **Track as Audio** to save the currently selected track as audio.

Check the **Include Track Volume/Pan Settings** box to include these settings in the export.

Check the **Bypass Track Effects Plugins** box to not include track effects plugins in the export.

Use the **Audio Tail** field to set the amount, in **seconds**, of extra time added to the end of the resulting audio files.

Use the **Bit Depth** field to set the bit depth to **8**, **16** or **24**.

Use the **Sample Rate** field to set the sample rate to **44.1**, **48**, **88.2** or **96 kHz**. In most cases, we recommend selecting **44.1 kHz**.

Tap **Track as MIDI/Pattern** when a MIDI track is selected to save it as a MIDI pattern file.

Use the **Export MIDI As** field to set the export the track as **MIDI** files or MPC **Pattern** files.

Tap **All Tracks** to save all current tracks in the project.

Use the same settings for **Track as Audio** or **Track as MIDI/Pattern** depending on how you would like to save the tracks.

Tap **Audio Mixdown** to save the project as an audio mixdown.

Use the **Start Bar** and **End Bar** fields under Audio Length to set the time range that you want to mix down. You can add a number of seconds to the end of the mixdown to capture any ringing notes or effects (such as a reverb tail) by adjusting the **Audio Tail** field.

Use the fields under **Render Source** and **Render Options** to set the parameters for the audio mixdown. Check the **Separate Tracks** box to render each track of the arrangement as stems.

Use the fields at the bottom of the screen to configure the audio mixdown settings. You can set the **File Format**, **Bit Depth**, and **Sample Rate**.

Tap **Ableton Live Set** to save the project as an Ableton Live set.

Use the **Export MIDI As** settings to choose how MIDI tracks are exported, either as **Audio** files or **MIDI** files. When using Plugin, Drum or Keygroup tracks, you can render sequences as **Audio** to preserve the sound of the instruments, or render sequences as **MIDI** data.

Check the **Include Track Volume/Pan Settings** box to include these settings in the export. When disabled, the volume and pan settings will be set to **0 dB** and center (**C**), respectively.

Check the **Bypass Track Effects Plugins** box to deactivate any third-party effect plugins used with the track for the export. When disabled, those effects will be activated.

Use the **Audio Tail** field to set the amount, in **seconds**, of extra time added to the end of the resulting audio files.

Use the **Bit Depth** field to set the bit depth to **8**, **16** or **24**.

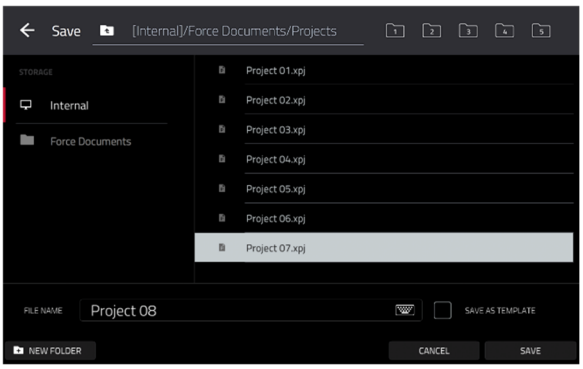
Use the **Sample Rate** field to set the sample rate to **44.1**, **48**, **88.2** or **96 kHz**.

Tap **Drum Pads as Stems** when a drum track is selected to render an audio stem for each pad with events in the drum track. This allows you to export your stems to a DAW for greater flexibility in mixing and post-production.

Use the **Audio Tail** field to set the amount, in **seconds**, of extra time added to the end of the resulting audio stem files.

Use the fields at the bottom of the screen to configure the audio mixdown settings. You can set the **File Format**, **Bit Depth**, and **Sample Rate**.

After selecting the save type, use the following to select a save location:



Tap a device from the **Storage** column on the left side to select it.

Internal is the internal drive of your MPC hardware.

MPC Documents is a shortcut to the **MPC Documents** folder on the internal drive of your MPC hardware.

If you have storage devices connected to USB ports or SD card slot of your MPC hardware, they will appear in this column, as well.

Double-tap a folder to enter it. You can also tap one of the five **folder buttons** in the upper-right to jump immediately to pre-assigned file paths set in the ***Browser***.

Tap **New Folder** to create a new folder. Use the virtual keyboard that appears to enter a name, and then tap **Do It**. You will immediately enter the new folder.

Tap the **folder/↰ icon** in the upper-left corner to move up one folder level.

Tap the **File Name** field at the bottom of the screen to name the file.

Tap **Save** to save the file.

Check the **Save as Template** checkbox before tapping **Save** to save the file as a project template file. This file will be shown in the **Template File** field in the Preferences' **Project Load/Save** tab.

Tap **Cancel** to cancel and return to the Menu. Alternatively, tap the **← icon** in the upper-left corner.

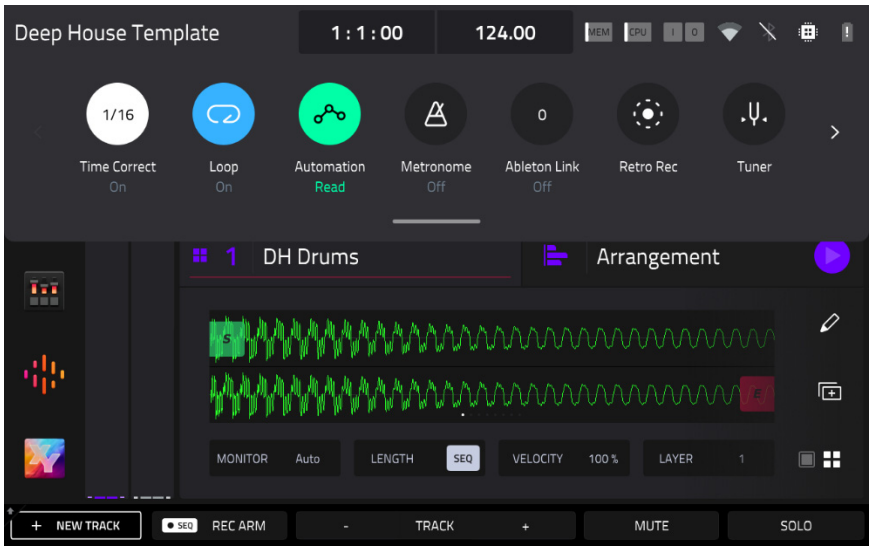
Pull-Down Menu

The pull-down can be accessed from any MPC3 mode, giving you quick and easy access to a variety of commonly used tools and information.

To open the pull-down menu, tap and drag from the middle-top of the screen.

Use the **>** and **<** buttons to cycle between the two pull-down menu pages.

To close the menu, simply swipe it back upwards to the top of the screen.



The pull-down menu contains the following controls on the first page:

The **Project Name** is shown at the top-left corner of the menu.

The **time counter** shows the current playhead position. Tap here to open the ***Locate*** window, which allows you to adjust the playhead position and quickly jump to specific points in your project.

The **BPM** field displays the tempo of the sequence. Tap here to open the **Tempo** window to adjust the BPM.

The **Mem** indicator shows your MPC hardware's current RAM usage, and the **CPU** indicator shows your MPC hardware's current **CPU** usage. Tap here to open the ***System Resources*** window.

The **In** and **Out** boxes indicate your MPC hardware is receiving or sending (respectively) MIDI messages from or to your computer. Tap here to open the ***MIDI Monitor*** and view the latest incoming or outgoing MIDI messages.

The **Wi-Fi** and **Bluetooth** icons display the current network and Bluetooth connection status. Tap each icon to open their respective setup pages in the ***Preferences***.

The **chip icon/computer icon** shows whether you are in Standalone or Controller Modes. Tap here to switch modes.

The **TC icon** enables or disables global timing correct. Tap and hold this icon to open the ***Timing Correct (TC)*** window, which contains various settings to help quantize the note events in your sequence.

The **Loop** button enables or disables sequence looping.

The **Automation button** indicates the global ***Automation*** state. Tap to cycle between **Read** and **Write**. Press and hold **Shift** and tap here to turn global automation **Off**.

The **Metronome button** enables or disables the metronome. Tap and hold this icon to open the ***Metronome (Click/Metro)*** settings window.

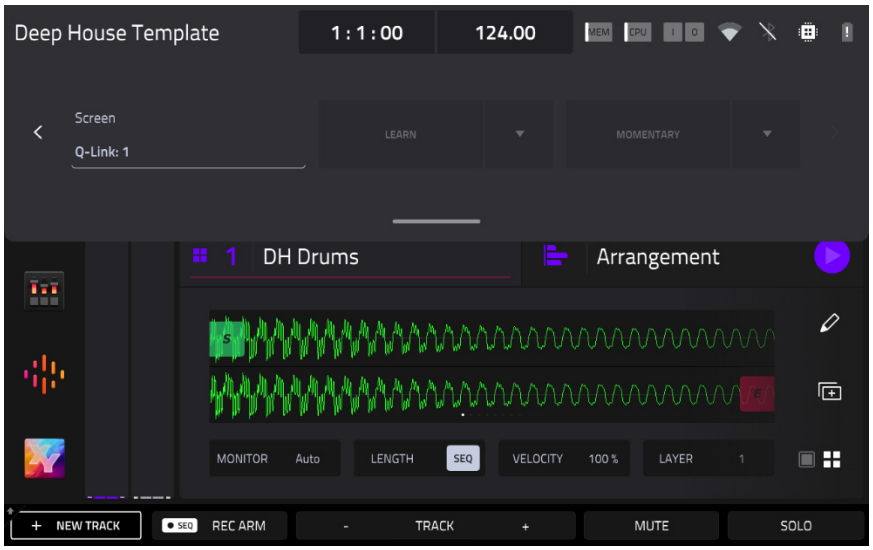
The **Ableton Link** button displays the current Ableton Link status. Tap to turn Ableton Link on or off.

The **Retro Rec** button enables retrospective recording. Your MPC hardware will capture MIDI events in the background, so you can recall a performance when record was not enabled. Select your desired track, and then tap this button to capture the recently played notes.

The **Tuner** button opens the built-in ***Tuner***, which allows you to easily tune any connected audio source.

On the second page of the pull-down menu are controls for creating macro controls. This allows you to set up controls for parameters that might not be shown in a particular mode, or set up controls with multiple parameters across different modes for expressive performances.

See ***Operation > Modes > Q-Link Edit*** for more information on creating macro assignments.



Tap the **Current Control** field to select the type of control you want to create an assignment for.

Tap the **Learn** button to activate MIDI learning. Once activated, the **Q-Link Bank LED** on your MPC hardware will blink. Navigate to the mode that displays the parameter you would like to learn, and then adjust that parameter. The screen will show a message, "Learned [*parameter*] to [*macro control*]." To lock in the assignment, tap the **Learn** button again.

To learn multiple parameters to a macro, simply navigate to more parameters while **Learn** is engaged (see ***Modes > Q-Link Edit > Learning Macro Assignments*** for more information on learning macros).

To learn another parameter to a macro that replaces the previous parameter, tap the **down arrow** next to the yellow **Learn** button, and then uncheck the **Add** box. Repeat the steps above to replace the previously learned parameter with a new one.

To learn a new parameter while also setting it to a range of values, tap the **down arrow** next to the yellow **Learn** button, and then check the **Range** box. While Learn is engaged, adjust the parameter to the low and high points of the value range that you want to control. When the assignment is locked in, the macro will control the parameter in the set value range.

To use a single macro to, for example, mute/unmute multiple tracks at the same time, tap the **down arrow** next to the yellow **Learn** button, and then check the **Toggle** box. Repeat the steps above to learn a parameter, which will toggle on/off when the control is touched or moved.

To use a macro to send the max value of a parameter, tap the **down arrow** next to the yellow **Learn** button, and then check the **Trigger** box. Repeat the steps above to learn a parameter, which will send its maximum value when the control is touched or moved.

Tap the **Momentary** button to turn momentary behavior on or off.

When **on**, moving the knob will adjust its parameter, but the parameter will immediately return to its original position (when you turned Momentary on) when you release the knob.

When **off**, moving the knob will adjust its parameter, and the parameter will remain at its new setting when you release the knob.

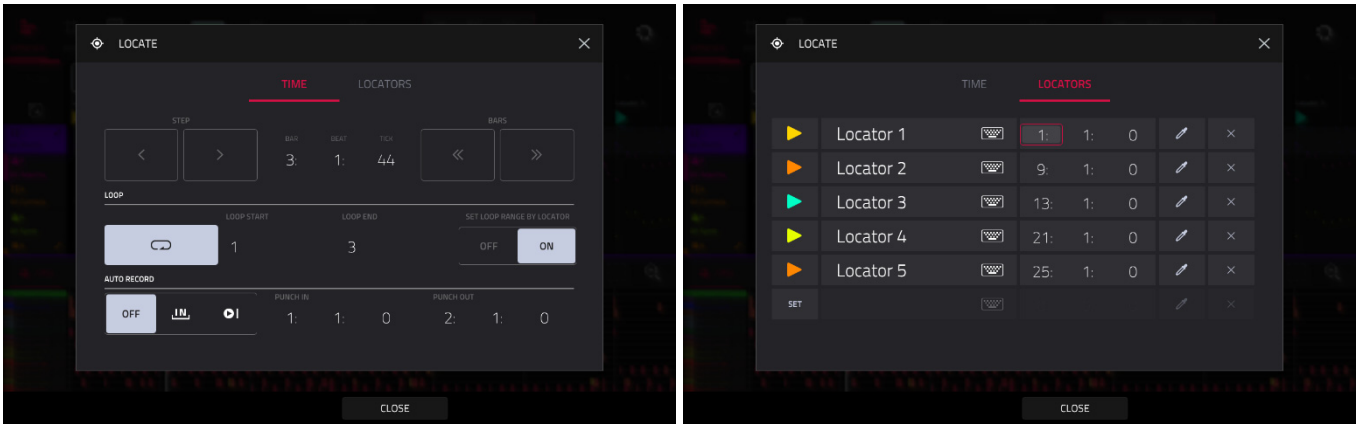
Tap the **arrow** next to the Momentary to adjust additional settings for when the macro control is released:

To revert the macro parameter(s) to its minimum value on release, check the **Go to Minimum** box.

To revert to the last value state before the macro was changed on release, check to **Go to Previous** box.

Time Counter / Locate

Many MPC modes feature a **time counter** in the toolbar. This displays the current playhead position in **Bars:Beats:Ticks**. Double-tapping the time counter opens the **Locate** window, where you can adjust the playhead position, manage loop and record settings, and quickly jump to specific points in your project.



The Locate popup is divided into two sections:

The **Time** tab is used to adjust the position of the playhead in the arrangement, as well as adjust Loop and Record settings.

Use the **Bars:Beats:Ticks** fields to move the playhead in the arrangement. You can also tap the **Step** and **Bars** arrow buttons to move the playhead by the specified amount.

Tap the **Loop** button to enable loop in the arrangement. Use the **Loop Start** and **Loop End** fields to set the length of the loop. Alternatively, you can set the loop length according to the Locator markers in the timeline. When **Set Loop Range By Locator** is set to **On**, the loop range will automatically adjust to the length between the selected Locator and the next Locator. The current loop region is always displayed in the timeline of the arrangement whether it is activated or not.

Use the **Auto Record** field to enable automatic recording when the loop starts. When enabled, recording will begin immediately when the arrangement loops.

The **Locators** tab is used to edit the six Locator markers which can be applied to the timeline.

Tap **Set** to add a locator.

To rename a locator, tap the **keyboard icon**, and then use the keyboard to enter a new name.

Use the **Bars:Beats:Ticks** fields to adjust the position of the locator.

To edit the color of the locator, tap the **eyedropper icon**, and then select a color from the list.

Tap the **X** icon to delete the locator.

To close the Locate window, tap **Close**, the **X** in the upper-right corner, or anywhere outside the window to return to the arrangement.

Timing Correct (TC)

The **Timing Correct** window contains various settings to help quantize the events in your project. You can quantize note events on MIDI tracks or track regions on audio tracks (though you cannot apply all types of quantization to audio tracks).

To open the Timing Correct settings:

In **Main Mode** or **List Edit Mode**: Tap the **TC** field at the top of the screen.

In **Arrange Mode**, the **Step Sequencer**, or **Track Mute Mode**: Tap **TC** at the bottom of the screen.

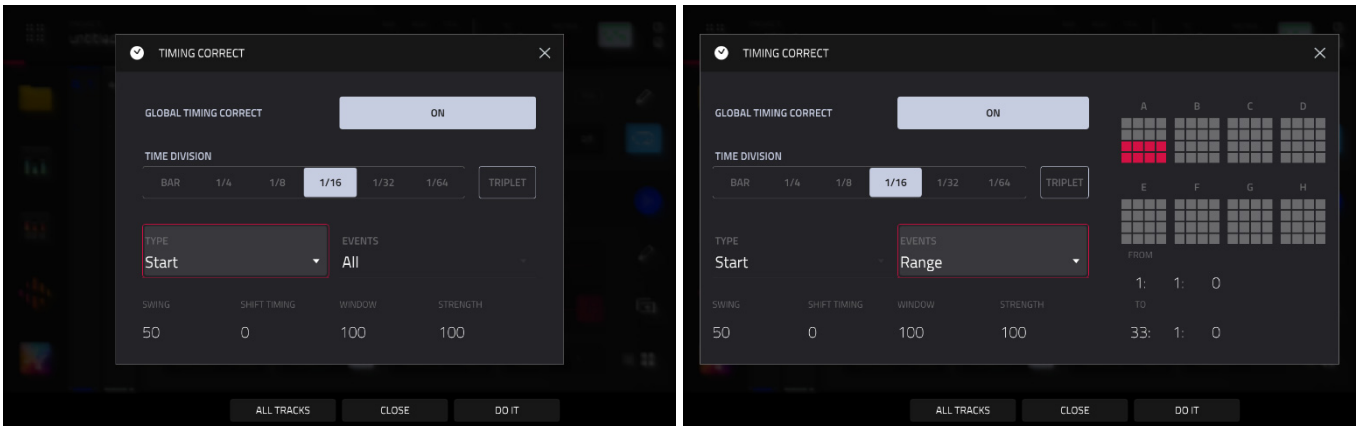
In **Grid View**: Tap the **clock icon** in the bottom-left corner of the screen.

In **Track View**: Press and hold **Shift** and tap **TC** at the bottom of the screen.

Press the **TC / On/Off button** (MPC Live II/One/Key 61/Key 37 only).

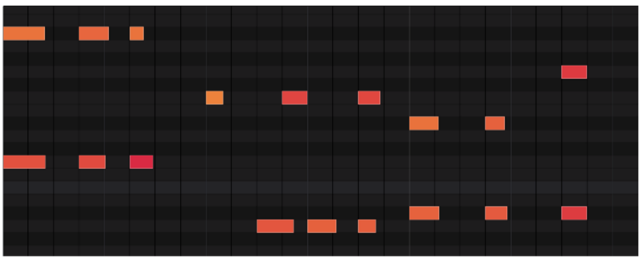
To enable or disable global timing correct, tap the **Global Timing Correct** button so it is on. Alternatively, press and hold **Shift** and press the track 6 **Track Assign** button.

Tap **Do It** to apply the settings you selected, or tap **Close** to cancel and return to the previous screen.

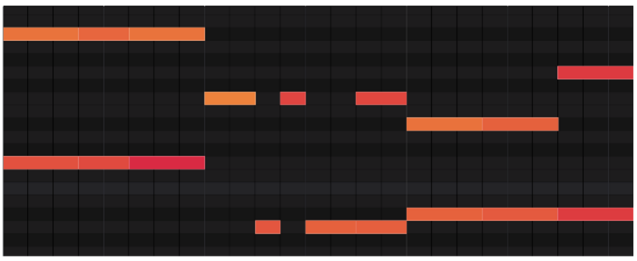


Use the **Type** selector to set how timing corrections are applied.

- **Start**: The entire note event or audio track region will be nudged forward or backward so the start point aligns with the closest time division marker in the grid. You can apply this to MIDI tracks or audio tracks.
- **End**: The end points of note events will be extended or shortened to align with the closest time division marker in the grid. The start points will remain untouched. You can apply this to MIDI tracks only.
- **Length**: The end points of note events will be extended or shortened so that each event's length is a multiple of the time division, regardless of where it is in the grid. The start points will remain untouched. You can apply this to MIDI tracks only.
- **Legato**: The end points of note events will be extended or shortened to create a long, unbroken phrase from the first note event's start point to the last note event's end point. Each note event will sustain until another note event starts. If multiple note events start at the same time (and are not the last note events), their lengths will become identical. Selecting **Legato** disables all other options in this window. You can apply this to MIDI tracks only.



Without legato applied.



With legato applied.

Use the **Time Division** selector to set the quantization value. Events will "snap" to these time divisions on the grid. The **T** indicates a triplet-based value.

Use the **Swing** field to set the amount of swing from **50%** to **75%**. Swing lets you "shuffle" your beats—from subtle to extreme.

Use the **Shift Timing** field to shift all events by clock ticks.

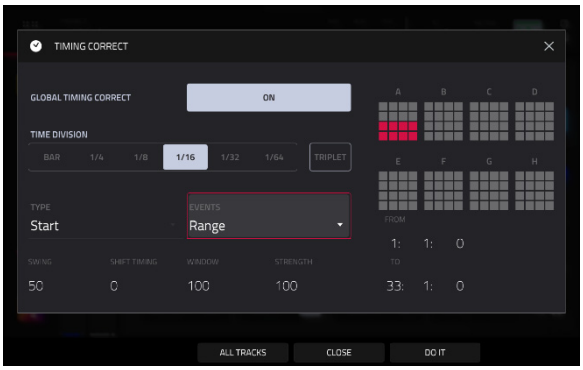
Use the **Window** field to set how many events around a quantize value will be quantized. Any events outside this range will not be quantized; events inside will.

Use the **Strength** field to set how strictly events will be quantized (i.e., shifted toward the quantize value). Lower values move events a little bit towards the closest quantize value, resulting in a less mechanical feel than a strict quantization (a higher value).

Use the **Events** selector to set the target range for the time correction. You can apply the time correction to **All** note events or to just the **Selected** ones.

To select note events to which to apply time correction, either use the various tools in Event View or Region View or press the pad with the desired events (while **Hitting Pad Selects All Events** is set to **On**). You must do this **before** opening the Timing Correct window.

When **Range** is selected, you can define the locations (**From** and **To**) as well as the pads or keys that will be quantized.

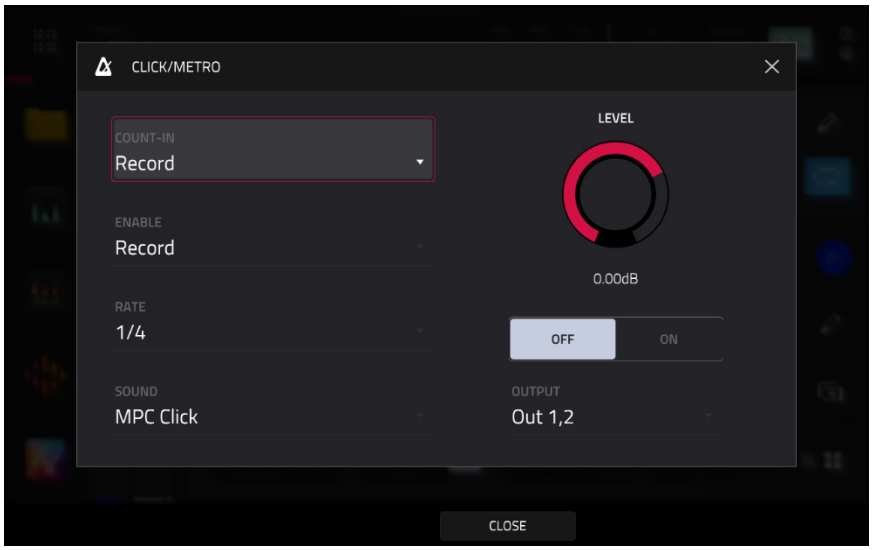


Metronome (Click/Metro)

The **Click**/**Metro** window contains all settings regarding the metronome (click track).

To enable or disable the metronome, press and hold **Shift** and press the **Play Start** button. You can also tap the **Metronome** icon in the ***Pull-Down Menu***.

To open the metronome settings, tap the **Metro** icon at the top of the screen in ***Main Mode***. You can also tap and hold the **Metronome** icon in the ***Pull-Down Menu***.



Use the **Count-In** field to set if/when the metronome counts before recording.

- **Off** disables the metronome pre-count.
- **Record** enables the pre-count during recording only.
- **Record + Play** enables pre-count in both Record and Playback Modes.

Use the **Enable** field to set if/when the metronome is enabled.

- **Off** disables the metronome.
- **Play** enables the metronome sound during playback only.
- **Record** enables the metronome sound during recording only.
- **Record + Play** enables the metronome to happen in both Record and Playback Modes.

Use the **Rate** field to select the metronome click's time division: **Auto**, **1/4**, **1/4T**, **1/8**, **1/8T**, **1/16**, **1/16T**, **1/32** or **1/32T**. **T** indicates a triplet-based time division. When set to **Auto**, the Metronome will automatically adjust to the current time signature's denominator value.

Use the **Sound** field to select the sound that you want to hear for the metronome: **Sidestick 1**, **Sidestick 2**, **Clap**, **Metroclick**, **Shake**, **Tambourine**, or **MPC Click**.

Use the **Volume** knob to set the volume of your metronome click.

Tap the **On**/**Off** button to enable or disable the metronome.

Use the **Output** field to set which pair of outputs will play the metronome click: **Out 1,2**, **Out 3,4** or an individual **Out 1–4**.

Automation

You can set the global automation setting, or individual tracks' automation settings, to be “written,” “read,” or disabled entirely by using the automation buttons described below.

Global

Global automation buttons change the automation state for all tracks in the project. These buttons can be found in the toolbar of modes like ***Main Mode*** and ***Arrange Mode***, and in the project ***Pull-Down Menu***.

When you tap this button to change its state, it will change the automation state for all tracks in the project.

Tap the **global automation button** to cycle through its two states. Alternatively, press **Read/Write** (MPC X, MPC Key 61) or **Automation** (MPC Key 37).

- When set to **Read** (**R**), automation data will be read but not recorded. (Think of this as a protective feature to prevent accidental changes to your automation while recording.)
- When set to **Write** (**W**), automation can be recorded and will overwrite any existing automation. (Make sure not to touch the XY pad accidentally while you are recording.)

Press and hold **Shift** and tap the **global automation button** to disable global automation. When **off**, automation data will be ignored. Tap the **global automation button** again to enable global automation. Alternatively, press and hold **Shift** and press **Read/Write** (MPC X, MPC Key 61) or **Automation** (MPC Key 37).

Important: If you have already recorded automation and turn it off, the track will still use the effect and its parameter values at the point where you turned it off.

Tracks

In addition to global automation, you can set automation for individual tracks by using the track automation buttons. These are found in channel strips, such as those in ***Main Mode*** or in ***Channel Mixer Mode***.

Note: Remember that tapping the global automation button will change the automation state for all tracks in the project; if they were originally different, all of them will then match the global automation state.

Tap the **track automation button** to cycle through its two states.

- When set to **Read** (**R**), the track will read automation data but will not record any additional automation over it. (Think of this as a protective feature to prevent accidental changes to your automation while recording.)
- When set to **Write** (**W**), the track can record automation. (If you have any Q-Link knobs assigned to automatable parameters, make sure not to touch any accidentally while you are recording.)

Press and hold **Shift** and tap the **track automation button** to disable track automation. When **off**, the track will ignore automation data. If you have already recorded or entered automation, tapping this will switch between **Read** (**R**) and **Write** (**W**) only, but you can override this and turn it off by pressing and holding **Shift** while pressing or tapping the button.

Important: If you have already recorded automation and turn it off, the track will still use the effect and its parameter values at the point where you turned it off.

To record automation to a track:

1. Make sure the Global or Track automation state is set to **Write (W)**.
2. Press the **Play** button to start recording. Record automation using the Q-Links, XY Pad, or by adjusting the onscreen controls.

   Note: If you are recording MIDI CC automation, make sure the ● **SEQ REC ARM** button at the bottom of Main Mode is enabled, and then press the **OVERDUB** button on your MPC hardware to arm recording before playing.
3. When you are finished, press **Stop** to stop recording. Make sure to set the automation state back to **Read (R)** to listen back to your recorded automation.

You can also manually add and edit automation in ***Grid View***, ***List Edit Mode***, and the ***Step Sequencer***. See these sections to learn more about how automation functions in each mode.

To quickly clear automation from a track:

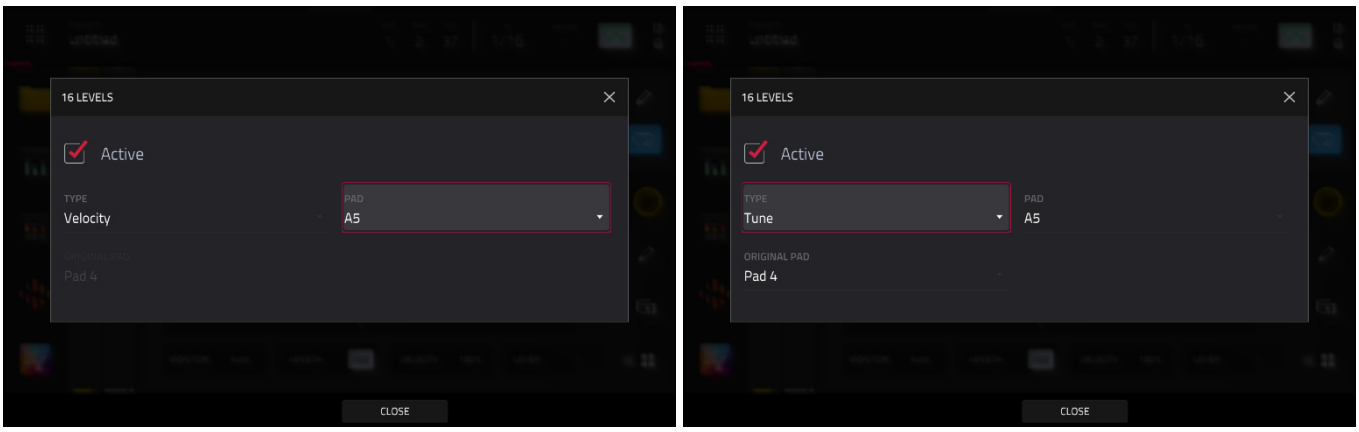
1. Tap the **Sequence Edit pencil icon** in Main Mode, and then select **Erase** from the Sequence Edit window. Alternatively, press the **Erase** button on your MPC hardware.
2. Select **Automation** as the Erase type.
3. Select the desired automation parameter(s) that you want to erase, and set the desired time frame.
4. Tap **Do It** to clear the automation from the track in the current sequence.

Alternatively, you can delete individual automation events using ***Grid View***, ***List Edit Mode***, and the ***Step Sequencer***.

16 Level

Press the **16 Level** button on your MPC hardware to activate or deactivate **16 Level**.

When first activated, the selected pad (**Pad A01** by default) will be temporarily copied to all 16 pads. The pads will now output the same note number as the initial pad, but a selectable parameter will be fixed at values that increase as the pad numbers increase (e.g., Pad 1 is the minimum, Pad 16 is the maximum), regardless of how hard you press them.



In the **16 Levels** screen that appears, use the **Type** selector to choose the parameter: **Velocity**, **Tune**, **Filter**, **Layer**, **Slice**, **Articulation**, **Attack**, **Decay**, **Probability**, or **Ratchet**.

To select a pad, do any of the following (while the **16 Levels** window is open):

- Press and hold **16 Level**, and then press the desired **pad**.
- Tap the **16 Levels** checkbox to uncheck it (temporarily disabling the feature), press the desired **pad**, and then tap the **16 Levels** checkbox again to check it.
- Tap the **Pad** field, and use the **data dial** or **–/+** buttons.
- Double-tap the **Pad** field, and tap the desired pad in the list that appears.

If **Type** is set to **Tune**, use the **Original Pad** field to select which you pad you want to use the original pitch of the sample/samples. Alternatively, hold **Shift** and press the desired pad.

If **Type** is set to **Layer**, pads with multiple samples will play back each layer according to the **Velocity Start** and **Velocity End** settings for each layer.

If **Type** is set to **Slice**, pads with multiple slices will play back each slice in order, starting with Pad 1.

If **Type** is set to **Articulation,** Pad 1 will play the original sample unchanged, and Pads 2–16 will play the first 15 articulations in the Articulation list. See ***Track Edit Mode > Drum Tracks > Effects*** to learn more about articulations.

If **Type** is set to **Probability**, the 16 pads will represent the probability that the note will play, from lowest to highest.

If **Type** is set to **Ratchet**, the 16 pads will represent increasing ratchet subdivision values.

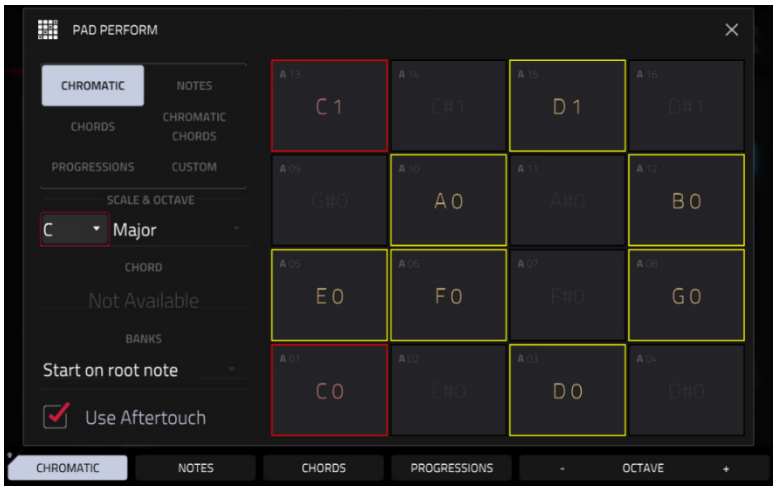
Pad Perform

The Pad Perform window lets you assign musical scales/modes, chords, or progressions to the pads for more creative performance.

To open the Pad Perform window, do any of the following while using a keygroup track, MIDI track, plugin track, or CV track:

- Tap **Pad Perform icon** in the Track section of ***Main Mode***.
- Press **Pad Perform** (MPC X).
- Hold **Shift** and press **16 Level** (MPC Live, MPC Live II, MPC One, MPC Key 61, and MPC Key 37).

Although you can enter Pad Perform Mode while using a drum track, it does not work.



The touchscreen will show the current pad bank's mapping of notes or chords.

Use the type selector in the top-left to determine what will be mapped over the pads:

Chromatic: Each pad is assigned a note, ascending by one semitone with each pad. Pads with notes in the key determined by the **Scale** will be lit, while pads with notes between the scale degrees will be unlit.

Notes: Each pad is assigned a note, ascending by one scale degree with each pad.

Chords: Each pad is assigned a chord, the root note ascending by one scale degree with each pad. All available chords will play in the key determined by the **Scale**.

Chromatic Chords: Each pad is assigned a chord, the root note ascending by one scale degree with each pad. You can play any chord type regardless of the key determined by the **Scale**. Essentially, this is like the Chords setting but with more options to play chords out of the set key.

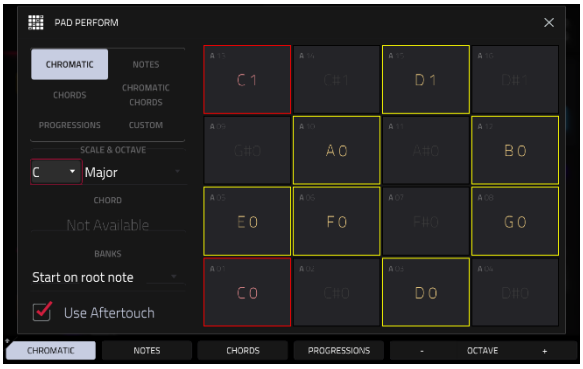
Progressions: Each pad is assigned a chord in a chord progression. You can play the pads in (or out of) order to construct songs quickly. The available chords are determined by the **Chord** field. User progressions can be created in the MPC software and transferred to your MPC hardware by creating a folder named **Progressions** on the root level an external storage device and copying your progression files (**.progression**) there. By default, progressions are saved here:

Windows: **C:\Program Files\Akai Pro\MPC\Progressions** and/or **C:\ProgramData\Akai\MPC\Progressions**

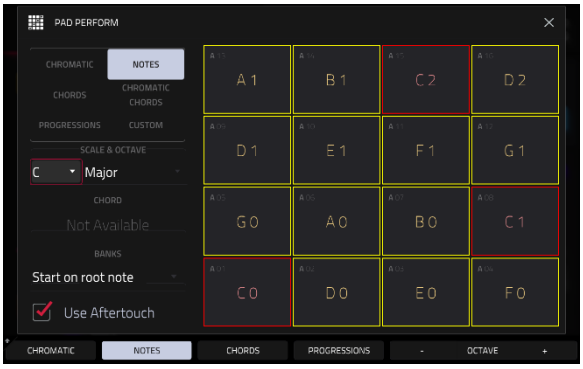
macOS: **~/Library/Application Support/Akai/MPC/Progressions**

Your MPC hardware will scan the **Progressions** folder you created and add them to the list of available progressions.

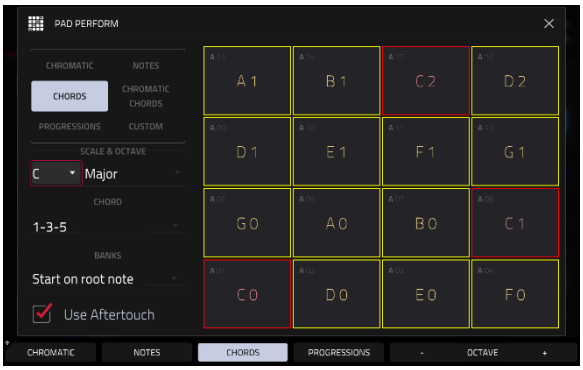
Custom: Each pad is assigned a custom note. Tap the **Edit Note Map** button to begin editing. Tap a pad or use the **Pad** field to select a pad, and then use the **MIDI Note** field to set the desired note. When you are finished editing, tap **Close**, the **X**, or anywhere outside the window. You can also choose from three Custom presets: **Chromatic C1**, **Chromatic C2**, or **Classic MPC**.



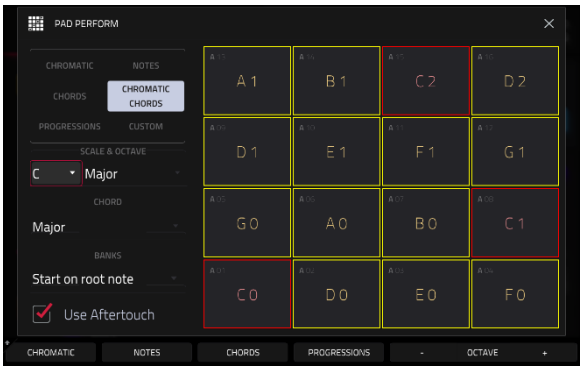
Chromatic Notes in Pad Perform Mode.



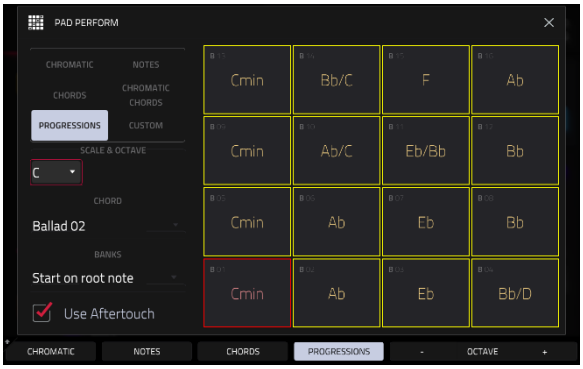
Notes in Pad Perform Mode.



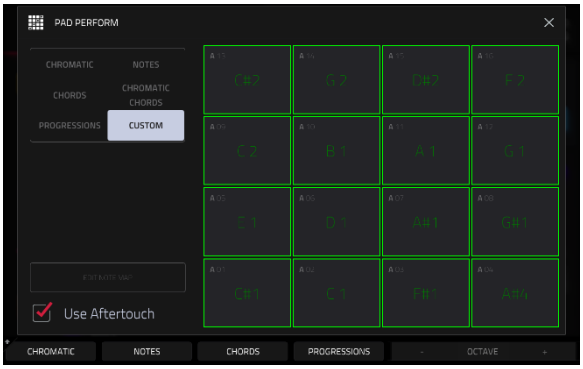
Chords in Pad Perform Mode.



Chromatic Chords in Pad Perform Mode.



Progressions in Pad Perform Mode.



Custom Map in Pad Perform Mode

Use the **Scale & Octave** fields to determine the root note and the scale type.

Root Note (pitch and register): This is the starting point of the scale. The available notes are all chromatic notes across the range of the pads. The pad that's assigned the root note will be lit differently (and highlighted on the screen) to indicate where the scale starts in each octave.

Scale Type: This is the scale or mode based on the root note (this is disabled when **Type** is set to **Progressions**). The available scales are:

Major	Blues (minor)	Major Bebop	Lydian
Natural Minor	Flamenco	Whole Tone	Mixolydian
Harmonic Minor	Gypsy	Chromatic	Aeolian
Pentatonic Major	Hungarian Gypsy	Dorian	Locrian
Pentatonic Minor	Persian	Phrygian	

Use the **Chord** fields to determine what chord type will play when pressing a pad. The chord will use those scale degrees based off the pad's root note. You can use this only when the **Type** is set to **Chords** or **Chromatic Chords**.

When set to **Chords**, the available chords are:

1-3-5 (major/minor)	1-3-5-7 (major7/minor7)
1-4-5 (sus4)	1-3-5-7b (dominant)
1-2-5 (sus2)	

When set to **Chromatic Chords**, the available chords are:

Major	Major7	Augmented
Minor	Minor7	Diminished
Sus2	Major9	
Sus4	Minor9	

Use the **Banks** field to determine how the notes are mapped across the pad banks.

Continuous: **Pad 01** of one bank is always one scale degree higher than **Pad 16** of the previous bank.

Start on Root: **Pad 01** will always be the root note of the scale in every pad bank.

You can use the buttons at the bottom of the screen to quickly select different Types and Chords:

Tap **Notes** to automatically set the **Type** to **Notes**.

Tap **Chords** to automatically set the **Type** to **Chords**.

Tap **Progressions** to automatically set the **Type** to **Progressions**.

Tap **Octave –/+** to shift the pad assignments down or up by an octave.

Press **Shift**+**1-3-5** to automatically set the **Type** to **Chords** and set the **Chord** to **1-3-5** (major/minor).

Press **Shift**+**1-4-5** to automatically set the **Type** to **Chords** and set the **Chord** to **1-4-5** (sus4).

Press **Shift**+**1-3-5-7** to automatically set the **Type** to **Chords** and set the **Chord** to **1-3-5-7** (major7/minor7).

Press **Shift**+**1-3-5-7b** to automatically set the **Type** to **Chords** and set the **Chord** to **1-3-5-7b** (dominant).

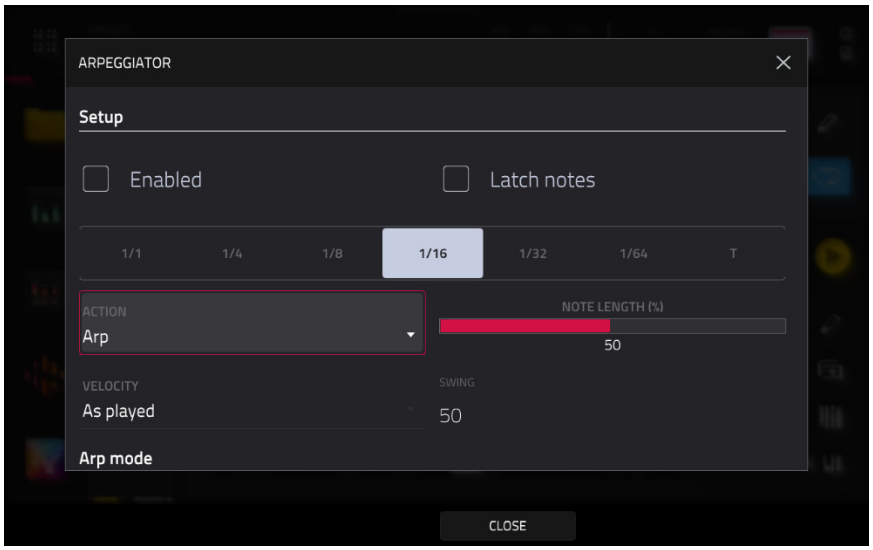
Press **Shift**+**Note –/+** to shift the pad assignments down or up by a semitone, essentially raising or lowering the **Root Note** field by a half-step.

Arpeggiator

Your MPC hardware includes a full-featured arpeggiator and phrase player for melodic track types, as well as traditional note repeat functionality.

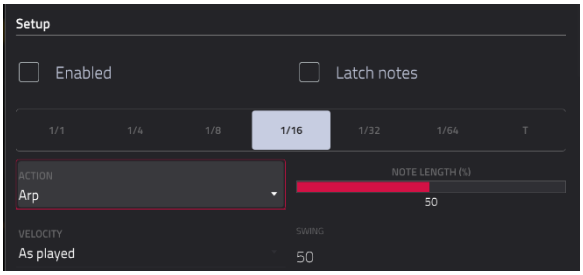
To open the Arpeggiator settings:

1. Set the current track type to **Plugin**, **Keygroup**, **MIDI**, or **CV**.
2. Open the Arpeggiator window by doing either of the following:
   - Press and hold the **Note Repeat** button, then tap **Arp** at the bottom-right of the screen.
   - Alternatively, press the **Arpeggiator F-Key** (MPC X).



Tap **Enable** so it is checked to activate the Arpeggiator. Tap again to **Disable** the Arpeggiator.

Tap **Latch** so it is checked to latch the Arpeggiator. Tap again to **Disable** Latch.



The **Setup** section of the Arpeggiator window sets what kind of arpeggiator will be used and its functions:

Use the **Action** field to set the type: **Arp**, **Note Repeat**, **Rhythm,** and **Pattern**. See ***below*** for more details about these types and their additional parameters.

Use the **Time Division** selector to set the note value of each arpeggiator step from **1/1**–**1/64** beats, including T (triplet) variations. This parameter is not available when **Action** is set to **Pattern**.

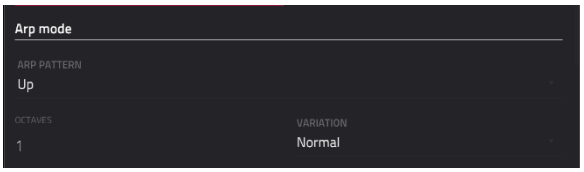
Note: This setting is tied to the project's Time Division setting, and will not function if Time Division has been set to **Off**.

Use the **Note Length** slider to set the length of the played note in each step, from **1**–**100%**.

Use the **Velocity** field to set the velocity of the arpeggiator notes. Choose **As played**, **From first note**, **Accented**, **Full**, **3/4**, **Half** or **1/4**.

Use the **Swing** field to set the amount of swing in the arpeggiator from **50%** to **75%**. Swing lets you "shuffle" your beats—from subtle to extreme.

The **Arp mode** section of the Arpeggiator window is available when the **Action** is set to **Arp**. When this action is selected, hold down a chord and the arpeggiator will play a pattern based on the notes held.

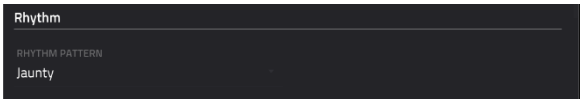


Use the **Arp Pattern** field to set how the arpeggiator triggers the held notes.

Use the **Octaves** field to set how many octaves of the held notes the arpeggiator will cycle through.

Use the **Variation** field to apply rhythmic variation to the set pattern.

The **Rhythm** section of the Arpeggiator window is available when **Action** is set to **Rhythm**. When this arpeggiator action is selected, hold down a chord and the arpeggiator will play the held notes in a rhythmic pattern.

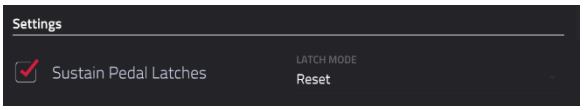


Use the **Rhythm Pattern** field to choose the pattern played when notes are held.

The **Pattern** section of the Arpeggiator window is available when the **Action** is set to **Pattern**. When this arpeggiator action is selected, hold down a single note to trigger a melodic phrase. As you change what note is held, the melodic phrase will be transposed.

Use the **Pattern** field to choose the pattern.

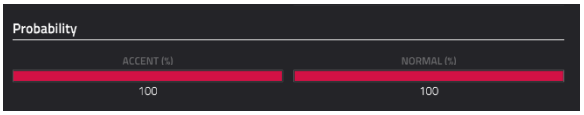
The **Settings** section of the Arpeggiator window offers additional options to control the arpeggiator.



If you have a sustain pedal connected, you can enable **Sustain Pedal Latches** to use it to control latching.

Use the **Latch Mode** setting to set the action of the sustain pedal, either **Reset** or **Add**.

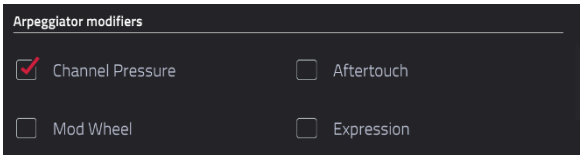
The **Probability** section of the Arpeggiator window lets you add further variation to your arpeggiator by adjusting the probability of how notes are played.



Use the **Accent (%)** field to set the percent probability that a note in the arpeggio is accented.

Use the **Normal (%)** field to set the percent probability that a note in the arpeggio is normally articulated.

The **Arpeggiator modifiers** section of the Arpeggiator window enables additional controls to modify the arpeggiator.



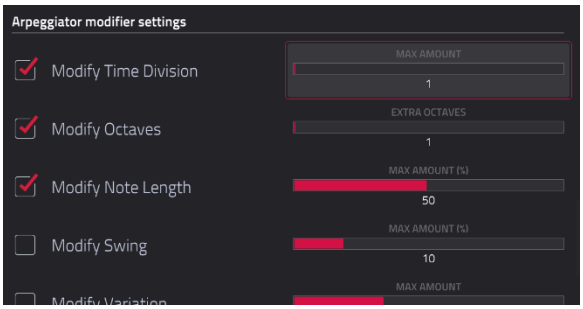
Tap the **Channel Pressure** box so it is checked to enable Channel Pressure messages from external MIDI controllers to modify the arpeggiator.

Tap the **Expression** box so it is checked to enable Expression messages (MIDI CC #11) from external MIDI controllers to modify the arpeggiator.

Tap the **Aftertouch** box so it is checked to enable Aftertouch messages from the **pads** or external MIDI controllers to modify the arpeggiator.

Tap the **Mod Wheel** box so it is checked to enable Modulation messages (MIDI CC #1) from external MIDI controllers to modify the arpeggiator.

Use the Arpeggiator modifier settings field to select what arpeggiator settings are modified by the selected controls, and by how much.



Tap the **Modify Time Division** box so it is checked to enable modification of the arpeggiator time division. Use the **Max Amount** to set by how much the time division can be changed, from **1**–**4**. For example, if the Time Division is set to **1/8** and the **Max Amount** is set to **2**, adjusting the selected modifier control will increase the Time Division to 1/8T and 1/16, which are the next two higher time divisions.

Tap the **Modify Octaves** box so it is checked to enable modification of the arpeggio octave range. Use the **Extra Octaves** field to select how many additional octaves (on top of what the current **Octaves** setting is) can be added with the modifier control, from **1**–**4**. For example, if the current Octaves setting is **1** and the **Extra Octaves** is set to **2**, adjusting the selected modifier control will increase the total octaves up to 3.

Tap the **Modify Note Length** box so it is checked to enable modification of the arpeggio note length. Use the **Max Amount (%)** field to select by how much percentage the note length is increased, from **1**–**100%**. For example, if the current Note Length setting is **50%** and the **Max Amount (%)** is set to **20%**, adjusting the selected modifier control will increase the note length up to 60%.

Tap the **Modify Swing** box so it is checked to enable modification of the arpeggio swing amount. Use the **Max Amount (%)** field to select by how much percentage the swing amount is increased, from **1**–**50%**. For example, if the current Note Length setting is **50%** and the **Max Amount (%)** is set to **20%**, adjusting the selected modifier control will increase the swing amount up to 60%.

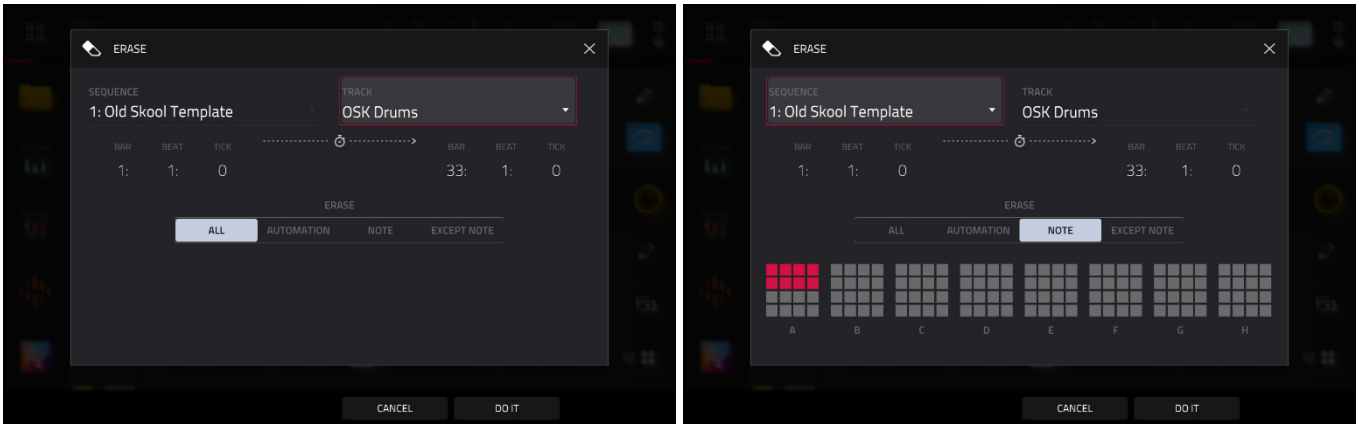
Tap the **Modify Variation** box so it is checked to enable modification of the arpeggio Variation setting. Use the **Max Amount** field to select by how the variation setting can be changed, from **1**–**4**. For example, if the current Variation setting is **Variation 1** and the **Max Amount** is set to **2**, adjusting the selected modifier control will increase the Variation setting up to **Variation 3**.

Tap the **Modify Probability** box so it is checked to enable modification of the arpeggio probability amount. Use the **Max Amount (%)** field to select by how much percentage the probability amount is increased, from **1**–**100%**. For example, if the current Probability setting is **50%** and the **Max Amount (%)** is set to **20%**, adjusting the selected modifier control will increase the probability amount up to 60%.

Erase

The Erase function erases all or part of a track in a specific sequence.

To open the Erase window, press the **Erase** button. Alternatively, while in ***Main Mode***, tap the **pencil icon** on the right edge of the ***Sequence Section***, and then tap **Erase** in the screen that appears.



Use the **Sequence** field to select the sequence you want to erase.

Use the **Track** field to select the track you want to erase within the sequence.

Use the **Bar**, **Beat**, and **Tick** fields to set the time range of the sequence you want to erase. The left fields set the start of the time range, and the right fields set the end of the time range.

To select what types of events you erase, select one of the **Erase** options:

All erases all pad events from the designated time range and reset all its settings.

Automation erases only automation from the designated time range. Use the **Parameter** field to select what type of automation is erased.

Note erases only specific pad events from the designated time range. In the diagram of the eight pad banks that appears, press each pad in each bank to select or deselect its notes.

Except Note erases everything **except** specific note events from the designated time range. In the diagram of the eight pad banks that appears, press each pad in each bank to select or deselect its notes.

Tap **Do It** to confirm your choice.

To cancel and return to the previous screen, tap the **X**, **Cancel**, or anywhere outside the window.

Effects

You can apply various effects to the pads, keygroups, tracks, main outputs and submixes, using **insert** and **send/return** effects. This chapter can help you get a good overall understanding of how the effects work.

See ***Appendix*** > ***Effects & Parameters*** for a list of all available effects (with a brief description of each) and their editable parameters.

Overview

Insert Effects can be added to specific ***Pads and Keygroups***, or to entire ***Tracks, Submixes, and Outputs***. Each location can have up to **four insert effects** applied to them.

Apply insert effects to specific pads or keygroups if you want to apply a particular effect to a single sound in a Drum Track (like a vocal sample), or a particular part of a keygroup (like the section that is providing the melody).

Apply insert effects to an entire track if you want all the track's sounds to have the effect applied in the same way.

For even further flexibility, apply insert effects to a submix and you can then route pads, keygroups, or tracks to that submix, which is then routed to a main output.

You can also apply insert effects directs to an output, which is particularly useful when working with mastering effects like a limiter.

Additionally, ***Send/Return Effects*** allow both ***Pads and Keygroups*** and entire ***Tracks and Submixes*** to be sent to (up to) **four return channels**, each of which can have up to **four insert effects** of their own. Their audio will be routed through the insert effects on those returns, and the processed audio will be sent to a main output.

When you create an audio mixdown of a sequence or song, you can choose whether or not main insert effects are included or send/return effects are included, depending on what you are mixing down:

If you are creating an audio mixdown of a pair of **main outputs**, you can choose whether or not **main insert effects** will be included in the mixdown.

If you are creating an audio mixdown of **separate tracks**, you can choose whether or not **send/return effects** will be included in the mixdown.

See ***Audio Mixdown*** to learn about these options.

There are three other modes that manage effects differently:

- The ***Sampler*** can use up to **four insert effects**, which are applied to the audio as you record it. This means that the effects cannot be "removed" from the sound later.
- Similarly, the ***Looper*** can use up to **four insert effects**, which are applied to the audio as you record it. This means that the effects cannot be "removed" from the sound later.
- In ***XYFX Mode***, the effects act like a single insert effect on that track. In fact, **XYFX** is the name of the insert effect you have to load to the track before you can use this mode.

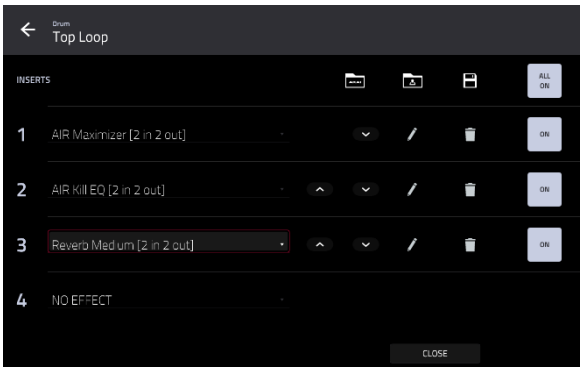
Finally, there is a special effect type called **TouchFX**, which is specially designed for use the **touch strip** controller on hardware such as MPC Key 61 and 37, but can be used on any MPC hardware and controlled using the onscreen touch slider or an external MIDI device. See the following ***Touch Strip*** chapter to learn more.

To view, load, edit, or clear effects, tap the **Inserts** button. This usually appears in a channel strip (next to a **level slider** and **pan knob**).

To view and edit an effect, tap the effect name below the Inserts button.

When viewing loaded effects, you will see this window:

To select an effect, use the field for each insert slot. A window (described below) will appear.



Tap the **arrows** next to the insert slot rearrange the insert effects. The selected effect will move up or down, and other loaded effects will be moved accordingly.

Tap the **pencil icon** next to the insert slot to edit the parameters of a loaded effect.

Tap the **trash can icon** to clear the insert slot.

Tap the **On**/**Off** button to enable or disable an effect slot.

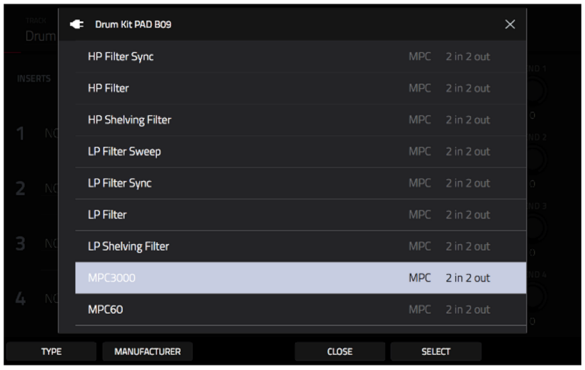
Tap the **All On**/**All Off** button in the upper-right corner **to disable all four effect slots** at the same time. Tap it again to reactivate the previously active effects.

Tap the **Akai folder icon** to load a **factory FX rack**. Select the desired FX rack from the options and all associated effects will be added to the insert slots.

Tap the middle **folder icon** to load a **user FX rack**.

Tap the **Save disk icon** to save an **FX rack**.

When selecting an effect, you will see this window:



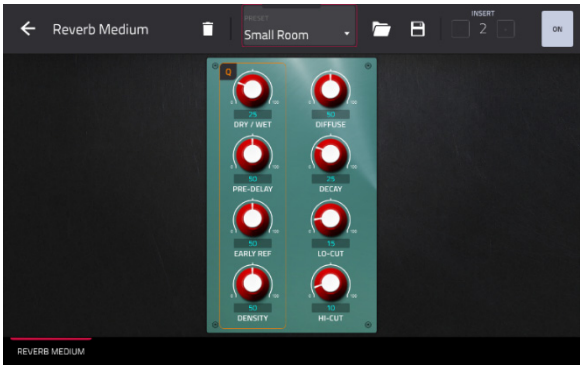
Swipe up or down to move through the list. Alternatively, use the **data dial** or **–/+** buttons.

Tap **Type** or **Manufacturer** in the lower-left corner to sort or unsort the effects by type or manufacturer.

Double-tap an effect name to load it, or tap **Select**.

Tap **Close** or anywhere outside the list to cancel.

When you edit an effect, you will see this window:



Tap and drag a control to adjust a parameter. Alternatively, use the **data dial** or **–/+** buttons. To make finer adjustments, double-tap the control and adjust the larger version of it that appears.

Tip: Turn the **Q-Link knobs** to quickly adjust the corresponding four parameters.

Tap the tabs at the bottom of the screen to select another page of parameters, if available.

Use the **Preset** dropdown menu at the top of the screen to select an effect preset.

Tap the **trash can** icon to remove the effect from the insert slot.

Tap the **folder icon** at the top of the screen to load a saved preset.

Tap the **disk** icon at the top of the screen to save a preset.

Tap the **Insert -/+** buttons at the top of the screen to edit parameters for another insert effect on the same pad, track, etc.

Tap the **On**/**Off** button in the upper-right corner to enable or disable the effect.

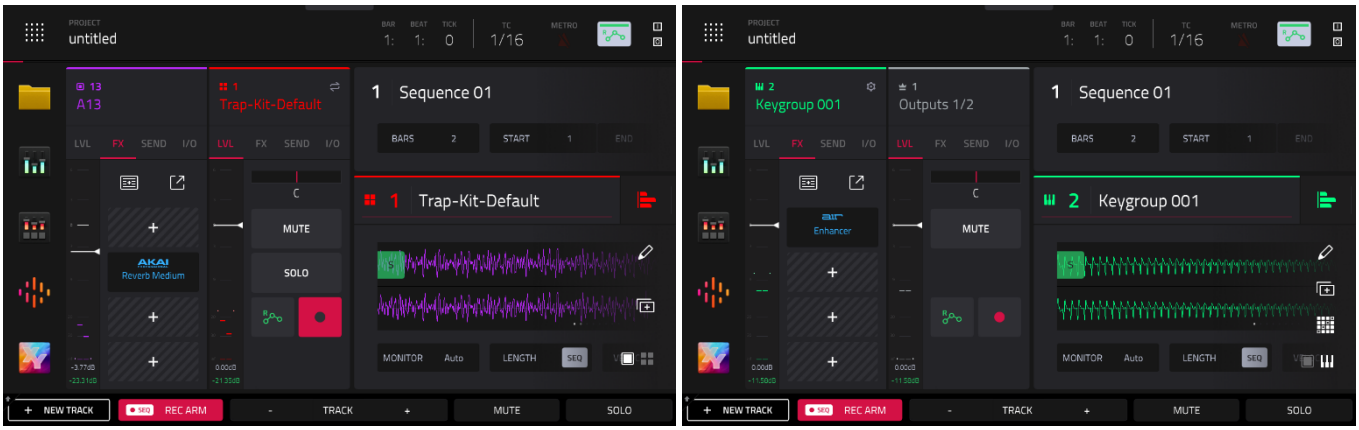
Tap the ← icon at the top of the screen to close the effect window and return to the previous page.

Insert Effects

Pads and Keygroups

You can load up to four insert effects to each pad or keygroup. You can do this in ***Main Mode***, ***Pad Mixer***, or ***Track Edit Mode***.

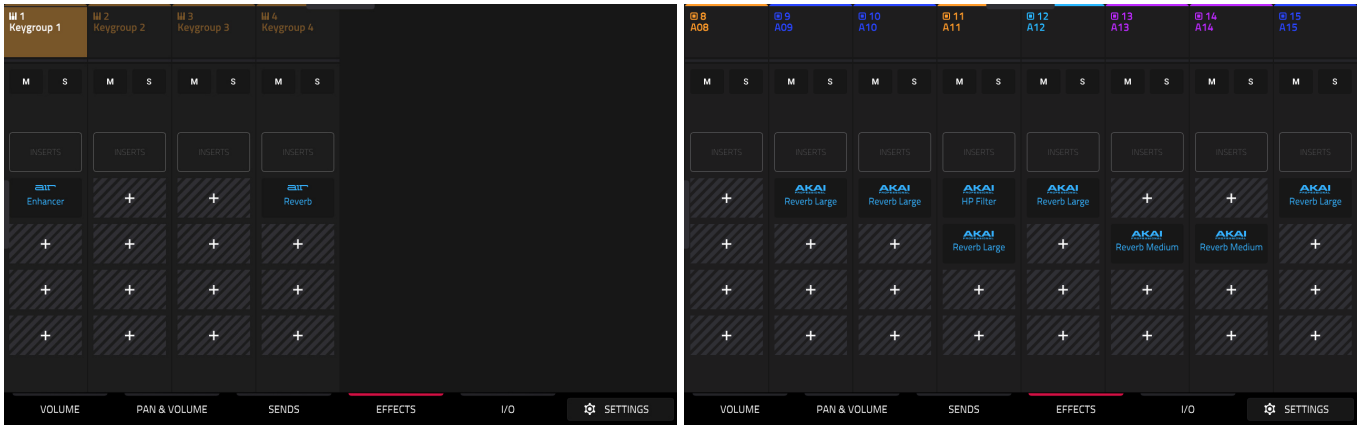
Tip: When using pad insert effects, they will be applied to the selected pad or specific keygroup only. This means that you could apply unique combinations of effects to each pad within a kit, or load insert effects to multiple keygroups with overlapping note ranges and the effects will overlap in that range as well. If you want to apply the same effect to all pads and keygroups at the same time, do this with a track insert effect (see ***Insert Effects > Tracks, Submixes, and Outputs***).



To load a pad or keygroup insert effect in Main Mode:

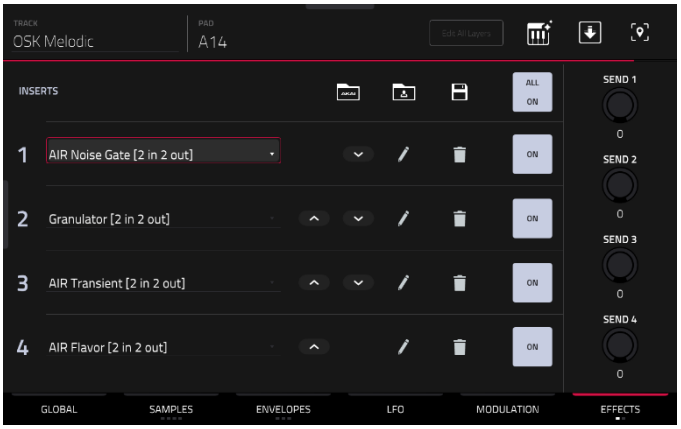
1. Use the **Track** field to select the track that uses the desired pad or keygroup.
2. If the channel strip is not already shown, tap the icons at the top of the channel strips to expand them.
3. For pad effects, tap the **single-pad / four-squares icons** in the bottom-right corner of the Track/Arrangement Section to switch from showing the track channel strip to the pad channel strip.

   For keygroup effects, tap the **single-pad / keyboard icons** in the bottom-right corner of the Track/Arrangement Section to switch from showing the track mixer strip to the keygroup mixer strip.
4. Press a **pad** to select it or its corresponding keygroup.
5. Tap the **FX** header to show the insert effects controls in the channel strip.
6. Tap an empty insert slot, indicated by a **+**, to add an insert effect. You can also tap the **expand window icon** to open the **Inserts** window, where you can load, change, and enable or disable the effects.



To load a pad or keygroup insert effect in the Pad Mixer:

1. Tap the **Effects** tab at the bottom of the screen.
2. Press the desired **pad** to select it or the corresponding keygroup, or tap it on the screen. Swipe your finger to the left to scroll through the banks of pads or keygroups.
3. Tap an insert slot to open the effects window and use it to load or edit effects, or tap the **Inserts** box to open the Inserts window.



To load a pad or keygroup insert effect in Track Edit Mode:

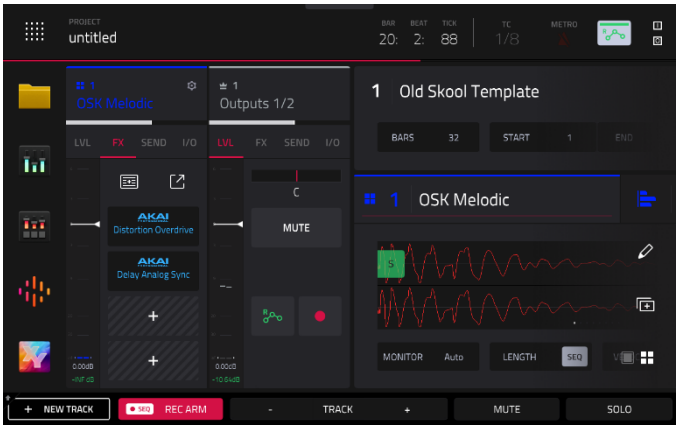
1. While using the desired track, press the desired **pad** to select it or the corresponding keygroup.
2. Tap the **Effects** tab in the lower-right corner, and use it to load or edit effects.

Note: This tab is only available for Keygroups when using the **Legacy** Track Edit view.

Tracks, Submixes, and Outputs

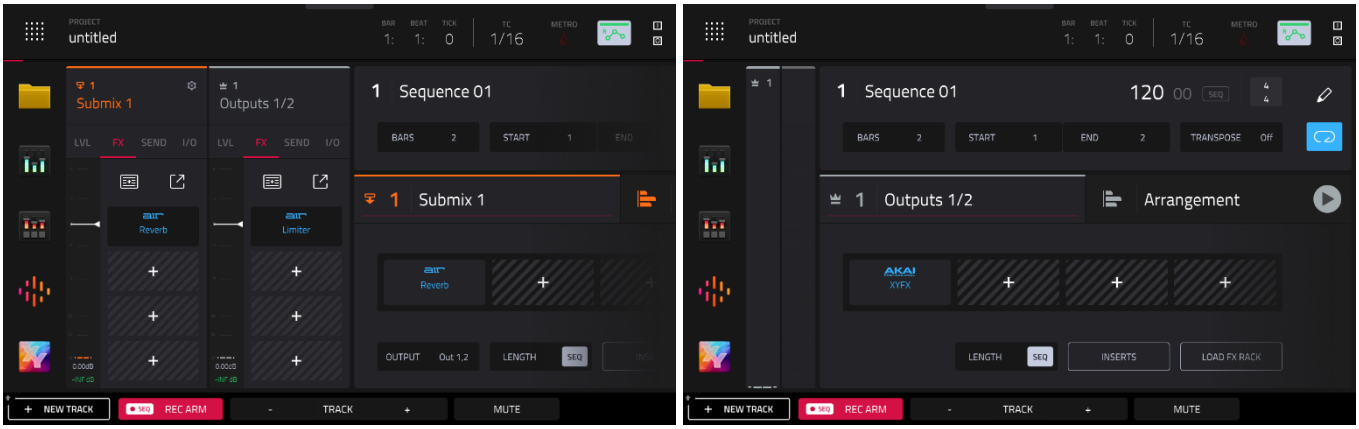
You can load up to four insert effects to each track (Drum, Keygroup, Plugin, or Audio type), Submix 1–8, or the Outputs (a stereo pair of channels: **Outputs 1/2** or **Outputs 3/4**). You can do this in ***Main Mode***, the ***Channel Mixer***, or ***XYFX Mode***.

Note: In XYFX Mode, the effects act like a single insert effect on that track. In fact, **XYFX** is the name of the insert effect that is loaded when use this mode.



To load a track insert effect in Main Mode:

1. Use the **Track** field to select the desired track.
2. If the channel strip is not already shown, tap the icons at the top of the channel strips to expand them.
3. If needed, tap the **single-pad / four-squares icons** in the bottom-right corner of the Track/Arrangement Section so the track channel strip is selected.
4. Tap the **FX** header to show the insert effects controls in the mixer strip.
5. Tap an empty insert slot, indicated by a **+**, to add an insert effect. You can also tap the **expand window icon** to open the **Inserts** window, where you can load, change, and enable or disable the effects.



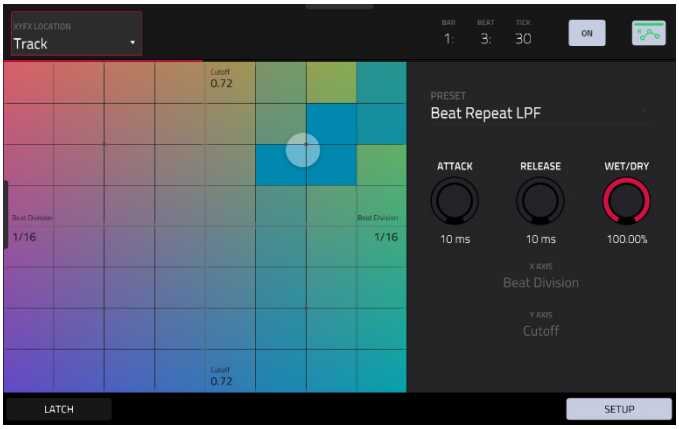
To load a submix or output insert effect in Main Mode:

1. Use the **Track** field to select the desired track, submix, or output.
2. The Track/Arrangement section will automatically display the four insert effects slots.

   Alternatively, you can use the channel strips by expanding them. When a Submix channel is selected, it will automatically be shown alongside the Main Output in the channel strips. When a Main Output is selected, it will automatically be shown by itself in the channel strip.
3. Tap an empty insert slot, indicated by a **+**, to add an insert effect. You can also tap the **expand window icon** to open the Inserts window, where you can load, change, and enable or disable the effects.

To load a track, submix, or output insert effect in the Channel Mixer:

1. Tap the **Effects** tab at the bottom of the screen.
2. Tap to select the desired track. Swipe left to display the **Submix** tracks and **Outputs** to select one.
3. Tap an insert slot to open the effects window and use it to load or edit effects. You can also tap the **Inserts button** to open the Inserts window, where you can load, change, and enable or disable the effects.



To load XYFX for a track, submix, or output in XYFX Mode:

1. If you have not yet used XYFX Mode for this track, tap **Insert XYFX** on the screen to load it and show the XY pad.

   Note: If you already have four insert effects loaded, you will need to clear one of the insert effect slots before doing this.

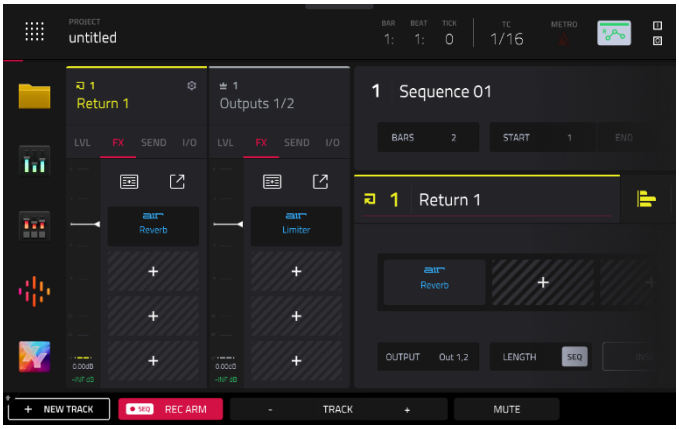
   If you have already used XYFX Mode for the selected track, the XY pad will appear.
2. Tap **XYFX Location** in the upper-left corner, and select a **Track**, **Submix**, or **Output**.
3. If the **Setup** panel is not shown, tap **Setup** in the lower-right corner to show it.
4. Use the **Preset** field to load an effect. Use the controls below the **Preset** field to edit the effect.

Send/Return Effects

Send/return effects work in the following way:

1. A **pad**, **keygroup**, **track**, or **submix** sends its audio to a **return** at a designated **send level**.
2. That audio is processed by the effects on the return. Each return can have up to **four insert effects** loaded and activated.
3. The processed audio is sent to a pair of main outputs (stereo) or a single main output (mono).

You can load send/return effects and set return levels in ***Main Mode*** and the ***Channel Mixer***, described below. The rest of this section describes the different ways to set the desired send levels for pads or tracks.



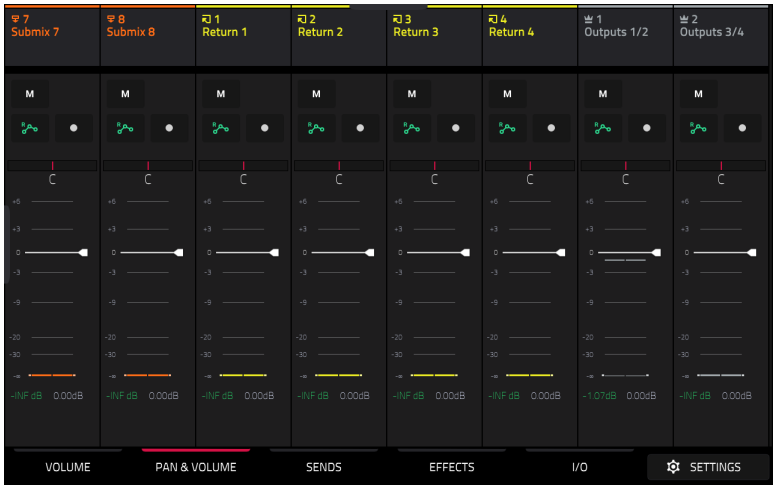
To load a send/return effect to a return in Main Mode:

1. Tap the **Track** header and use the **data dial** or **+/-** buttons to change tracks until you reach the **Return 1–4** buses. Alternatively, use the **Track -/+** buttons at the bottom of the screen.
2. Use the **Inserts** boxes to add or view inserts effects. Tap the **+** icon in an empty slot to add a new effect. Tap an insert slot with a loaded effect to view the effect's controls.

You can also add send/return effects using the ***Mixer Strips*** in Main Mode.

To load a send/return effect to a return in the Channel Mixer:

1. In the Channel Mixer, swipe left to show the **Returns** (between the **Submixes** and **Main Outputs**).
2. Tap the **Effects** tab at the bottom of the screen.
3. Tap an insert slot to open the effects window and use it to load or edit effects. You can also tap the **Inserts button** to open the Inserts window, where you can load, change, and enable or disable the effects.

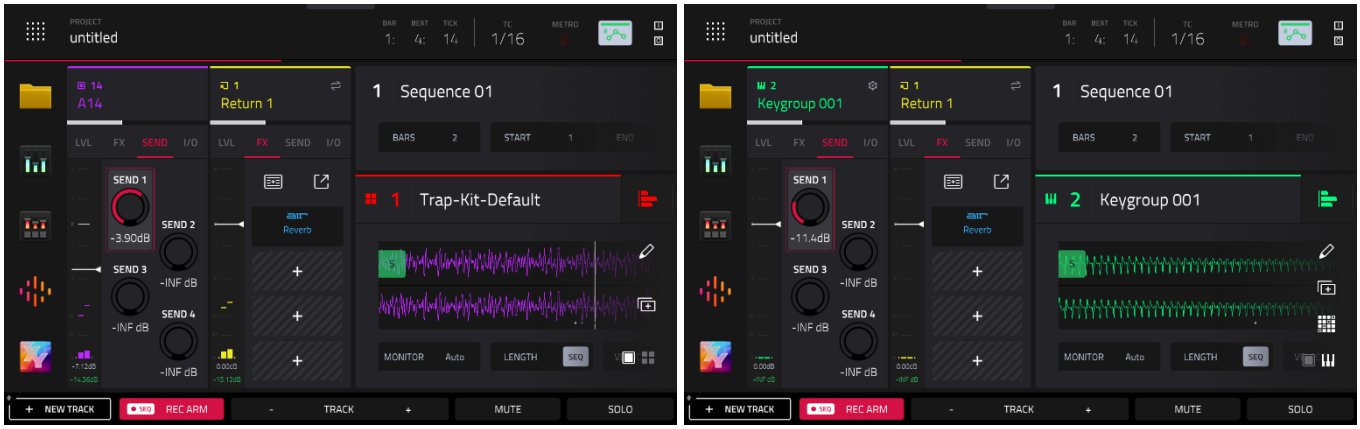


To set the return level:

1. In the Channel Mixer, swipe left to show the **Returns** (between the **Submixes** and **Main Outputs**).
2. Tap the **Volume** or **Pan & Volume** tab in the lower-left corner.
3. In the screen, tap the **track** that corresponds to the desired return.
4. Use the **level slider** in the channel strip to adjust the level of the currently selected return. **To make finer adjustments**, double-tap the **level slider** on the screen and adjust the larger version of the slider that appears.

Pads and Keygroups

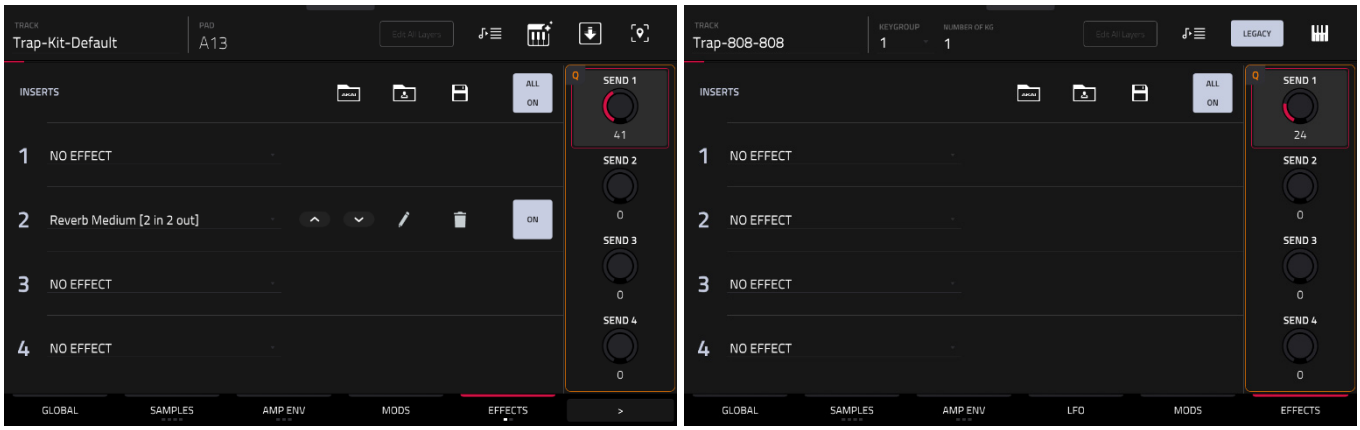
You can set the send levels for individual pads in ***Main Mode***, ***Track Edit Mode***, or the ***Pad Mixer***.



To set the send levels for a pad or keygroup in Main Mode:

1. Use the **Track** field to select the track that uses the desired pad or keygroup.
2. If the channel strip is not already shown, tap the icons at the top of the channel strips to expand them.
3. For pad effects, tap the **single-pad / four-squares icons** in the bottom-right corner of the Track/Arrangement Section to switch from showing the track channel strip to the pad channel strip.

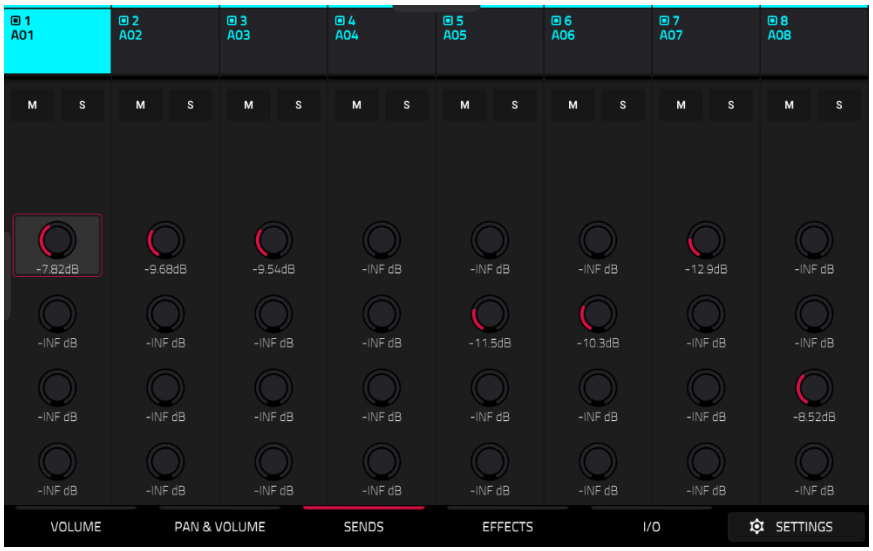
   For keygroup effects, tap the **single-pad / keyboard icons** in the bottom-right corner of the Track/Arrangement Section to switch from showing the track mixer strip to the keygroup mixer strip.
4. Press a **pad** to select it or its corresponding keygroup.
5. Tap the **SEND** header to show the insert effects controls in the channel strip.
6. Use the **Send** knobs to set the send level for each return. **To make finer adjustments**, double-tap the **knob** on the screen and adjust the larger version of the knob that appears.



To set the send levels for a pad or keygroup in Track Edit Mode:

1. While editing the desired track in Track Edit Mode, press the desired **pad** to select it or the corresponding keygroup.
2. Tap the **Effects** tab in the lower-right corner.

   Note: This tab is only available for Keygroups when using the **Legacy** Track Edit view.
3. Use the **Send** knobs to set the send level for each return. **To make finer adjustments**, double-tap the **knob** on the screen and adjust the larger version of the knob that appears.

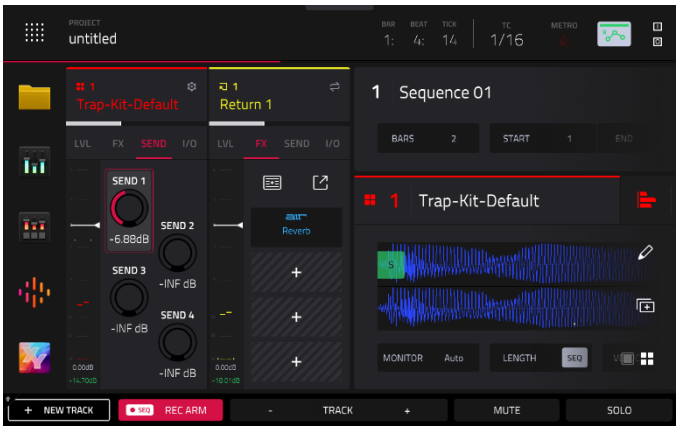


To set the send levels for a pad or keygroup in the Pad Mixer:

1. Tap the **Sends** tab at the bottom of the screen.
2. Press a **pad** to select it or the corresponding keygroup, or tap it on the screen.
3. Use the **Send** knobs to set the send level for each return. **To make finer adjustments**, double-tap the **knob** on the screen and adjust the larger version of the knob that appears.

Tracks and Submixes

You can set the send levels for Drum, Keygroup, Plugin, or Audio type tracks, plus Submix 1–8, in ***Main Mode*** and the ***Channel Mixer***.



To set the send levels for a track or submix in Main Mode:

1. Use the **Track** field to select the desired track or submix.
2. If the channel strip is not already shown, tap the icons at the top of the channel strips to expand them.
3. If needed, tap the **single-pad / four-squares icons** in the bottom-right corner of the Track/Arrangement Section so the track channel strip is selected.
4. Tap the **SEND** header to show the insert effects controls in the mixer strip.
5. Use the **Send** knobs to set the send level for each return. **To make finer adjustments**, double-tap the **knob** on the screen and adjust the larger version of the knob that appears.

To set the send levels for a track or submix in the Channel Mixer:

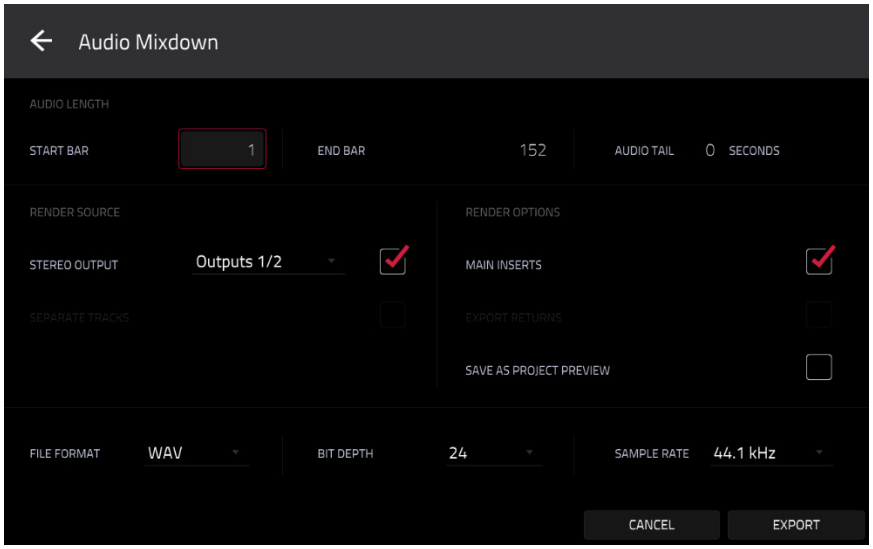
1. Tap the **Sends** tab at the bottom of the screen.
2. In the screen, tap the **send knob** in the desired track.
3. Use the **Send** knobs to set the send level for each return. **To make finer adjustments**, double-tap the **knob** on the screen and adjust the larger version of the knob that appears.

Audio Mixdown

The Audio Mixdown screen lets you render and export either the current sequence or song as an audio file.

To open the Audio Mixdown screen, press **Menu** to open the Menu, then tap **Save** at the bottom of the screen to open the Save window and select **Audio Mixdown.** On MPC Key 37, you can also press the **Save** button to open the Save window.

To open the Audio Mixdown screen in Song Mode, tap **Export** at the bottom edge of the screen.



Audio Length

Use the **Start Bar** and **End Bar** fields to define where the resulting audio file will start and end, respectively.

Use the **Audio Tail** field to add extra seconds to the end of the resulting audio file. This is useful if you are using effects or samples whose sounds exceed the defined audio length (e.g., long reverb or delay, one-shot samples with long decays, etc.). We recommend using an audio tail of at least a couple of seconds.

Render Source

Check **Stereo Output** and use the adjacent field to select a pair of outputs (**Out 1,2–31,32** and **Submix 1–8,** availability depends on your MPC hardware type). The mixdown will be taken from these outputs.

Check **Separate Tracks** to create a mixdown of each track used in the sequence or song.

Important: Each pad or keygroup must have their output routed to **Track** to be included in the mixdown. This is the typical (and default) setting. See ***Modes*** > ***Pad Mixer*** > ***I/O*** to learn about this.

Render Options

If your **Render Source** is set to **Stereo Output**, check **Main Inserts** to include main insert effects in the mixdown.

If your **Render Source** is set to **Separate Tracks**, check **Export Submixes** to export the submix channel signals as separate files, and **Export Returns** to export the return channel signals as separate files.

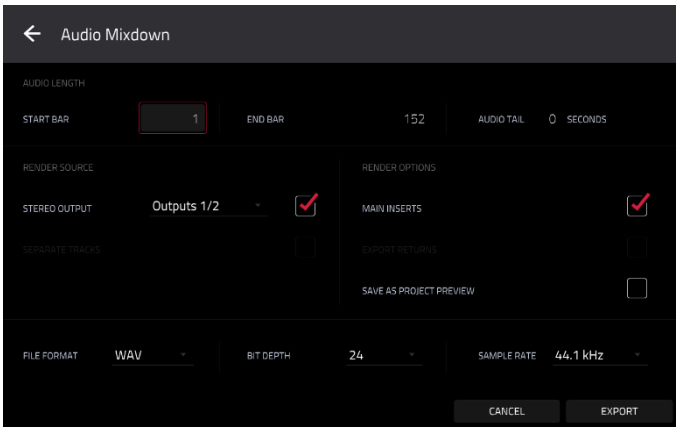
If your **Render Source** is set to **Stereo Output**, tap **Save as Project Preview** to save the sequence or song as a project preview file (which you can play for reference in the Browser). If you check this box, **Stereo Output** will automatically be checked, as well.

File Formats

Tap **WAV**, **AIFF**, **MP3**, **FLAC**, or **OGG** to select the file format of the mixdown.

For **WAV** and **AIFF** files, use the **Bit Depth** field to select a bit depth of **8**, **16**, or **24** bits, or **32** bits, floating point (**32 F**). For **FLAC** files, you can select a bit depth of **16** or **24** bits. For **MP3** and **OGG** files, you can select a **Bitrate** of **128**, **160**, **192**, or **320** kbps.

Use the **Sample Rate** field to select a sample rate of **44.1 kHz**, **48 kHz**, **88.2 kHz**, or **96 kHz**. In most cases, we recommend selecting **44.1 kHz**.



Tap **Export** to enter the **Save** screen where you can select a name and location to save your audio mixdown.

Tap **Cancel** or the **← icon** in the upper-left corner to return to the previous screen.

Keyboard Control

The keyboard control screen allows you to edit the functions of the keybed on MPC Key 61 and MPC Key 37.

To access Keyboard Control, press the **Keyboard Control** button on your MPC Key 61 or MPC Key 37. You can then edit the following parameters.

Keyboard Input

Transpose: This determines the amount of transposition to the keyboard, up to **36 semitones** up or down.

MIDI Channel: This determines which MIDI channel (**1**–**16**) the keyboard input will use to receive messages.

Aftertouch (Channel Pressure): This determines whether aftertouch is enabled (**As Played**) or not (**Disable**).

Note On Velocity: This determines the incoming velocity of note on messages. For velocity that is responsive to your playing, select **As played**. Alternatively, you can set a fixed velocity for all note on messages, at **12%, 18%, 25%, 31%, 37%, 43%, Half, 56%, 62%, 68%, 75%, 81%, 87%, 93%** or **Full** velocity.

Scale Filter

Filter Input: This determines how specific notes are filtered. Select **As Played** to apply no filtering, **Snap to Scale** to shift non-scale notes played to the nearest scale degree, or **Filter to Scale** to disable non-scale notes from playing entirely.

Root Note: This determines the root note of the set scale.

Scale: This determines the type of scale used for note filtering. The available scales are:

Chromatic	Pentatonic Minor	Aeolian	Hungarian Gypsy
Major	Dorian	Locrian	Persian
Natural Minor	Phrygian	Blues	Major Bebop
Harmonic Minor	Lydian	Flamenco	Whole Tone
Pentatonic Major	Mixolydian	Gypsy	

Internal Keyboard Routing

Keyboard Route: This determines where MIDI data from the keyboard is sent. Select from the following options:

Local Off: Keyboard MIDI data is only sent to the MIDI out. This may be useful if working with external sound modules.

Global: Keyboard MIDI data will always go to the current track.

Tracks: The Keyboard will appear as a port in the list of available track MIDI Inputs.

Global and Tracks: Keyboard MIDI data will go to the current track and be available as a track MIDI input.

External Keyboard Routing

MIDI Output Port: This determines the MIDI port where the keyboard will output MIDI externally.

Keyboard sends MIDI here: Check this box to send all MIDI from the keyboard to the selected MIDI Output port.

MIDI Channel: This determines which MIDI channel (**1**–**16**) the keyboard will use to send messages externally.

Minimum Note / Maximum Note: This determines the range of notes that will output MIDI externally.

Keyboard Settings

Velocity Response: This determines how playing the keys translates into velocity values. Select preset **Light 1–3**, **Linear**, or **Heavy 1–3** responses, or select **Custom** to create your own response using the following settings:

Velocity Curve: Use this slider to adjust the velocity curve, from **-50** to **0** to **+50**. At negative values, it takes more force to hit higher velocity values; at positive values, it takes less force.

Gain: Use this slider to apply additional gain to the velocity curve, from **-20** to **0** to **+20**. Increasing the gain will make it easier to hit high velocity values, and decreasing it will make it harder.

Black Key Sensitivity: Use this slider to set the sensitivity of the keyboard's black keys, from **-20** to **0** to **+20**.

White Key Sensitivity: Use this slider to set the sensitivity of the keyboard's white keys, from **-20** to **0** to **+20**.

Pedal Settings

Pedal: This determines the pedal input port from MPC Key 61/MPC Key 37. Select **Sustain**, **FS2**, or **Expression**.

Type: This determines the pedal type, either **Switch** (on/off) or **Variable** (such as an expression pedal).

Polarity: This determines the polarity of the pedal input. Select **Auto**, **Positive**, or **Negative**. If you are having issues with your pedal, check the settings on your hardware or try adjusting this field for the correct behavior.

CC Assign: This is the MIDI CC assignment the pedal will send. Select **Disable**, **Default** (varies depending on the port used), or **CC 000–126**.

Pitch Bend / Mod Wheel

Pitch Bend: Use this field to select the MIDI function for the keyboard pitch wheel. Select **Disable**, **Default – Pitch Bend**, or **CC 000–126**.

Mod Wheel: Use this field to select the MIDI function for the keyboard modulation wheel. Select **Disable**, **Default – CC 001: Modulation**, or **CC 000–126**.

Global Pitch Bend Settings

Global Pitch Bend: Check this box to override the pitch bend settings of all programs, so that those with pitch bend disabled or set to different ranges will only use the Global Range instead. When unchecked, all programs may use their individual pitch bend settings.

Range Up/Range Down: Use these sliders to set the range of the pitch bend in semitones.

Touch Strip

To use the touch strip with MPC Key 61 or MPC Key 37:

1. Press the **Touch Strip** button to cycle through the available Touch Strip modes, or press and hold **Touch Strip** to quickly select a mode from the touchscreen:
   - ***Q-Link***
   - ***Pad Level***
   - ***Track Level***
   - ***Touch FX***
   - ***Notes***
   - ***Pitch Bend***
   - ***Mod Wheel***
   - ***Sustain***
   - ***Expression***
   - ***Crossfader***
   - Off

   You can also press **Touch FX** to instantly select ***TouchFX*** mode for the Touch Strip.

   You can also set the default Touch Strip mode in the ***Hardware*** menu of the **Preferences**.
2. Press your finger on the **touch strip** and move it up and down as an expressive control for the selected parameter.
3. Press and hold **Shift** and press the **Touch Strip** or **Touch FX** buttons to configure settings for each mode, if available. See below to learn more.

Q-Link

Select this mode to use the touch strip as a Q-Link control.

To configure the Q-Link settings, press and hold **Shift** and press the **Touch Strip** button to open the Touch Strip Q-Link window in the software.

Q-Link: Use this field to select which Q-Link is controlled by the touch strip (1–16). You can also press one of the 16 pads to select that Q-Link while the Touch Strip Q-Link window is open in the software.

Pad Level

Select this mode to use the touch strip to control the current Pad Level.

Track Level

Select this mode to use the touch strip to control the current Track Level.

TouchFX

TouchFX is specially designed for use the **touch strip** controller on hardware such as MPC Key 61 and 37, but can be used on any MPC hardware and controlled using the onscreen touch slider or an external MIDI device. The effect you control acts like an insert effect on the selected output.

To load the Touch FX plugin, you can simply press and hold the **Touch FX** button on MPC Key 61 or 37. A window will appear with the included Touch FX presets. Tap a preset to select it, and it will automatically be added as an insert to the current track.

Alternatively, you can load Touch FX as you would any other insert effect when using other MPC hardware:

1. Tap an empty slot in the **Inserts** section of any channel strip.
2. Double-tap an empty insert slot in the Effects window to open the list of plugin effects
3. Tap the **+** or **–** button to expand the **Harmonic** category.
4. Select the **TouchFX** plugin.
5. Tap the **pencil icon** to open the plugin window, where you can adjust the plugin settings and use the virtual touch strip to control the effect. You can also use the ***MIDI Learn*** function to assign the touch strip to an external MIDI device.

To configure the Touch FX settings from an MPC Key:

1. Press and hold **Shift** and press the **Touch FX** button to open the Touch FX Setup window in the software.
2. Use the **Touch FX Destination** field to select where the Touch FX should be applied. You can select the current Track, a Return, a Submix, or an Output. Click the **Insert Touch FX** button to add Touch FX to the selected destination.
3. Once Touch FX has been inserted, you can press and hold **Shift** and press the **Touch Strip** button again to reopen the **Touch FX Setup** window in the software to configure additional settings:

   Touch FX Preset: Use this field to select the desired effect for the touch strip. You can also use the **data dial** or **-/+** buttons to cycle through the presets as shown on the display once Touch FX has been inserted to a destination. The specific parameters for each effect can be set by clicking the **Touch FX Setup** button at the bottom of the window.

   Latch: Check this box to keep the current position on the touch strip even after you release it. The position will remain in place until you touch another part of the XY pad or until you uncheck **Latch**.

   Touch > Wet/Dry: Check this box to use the touch strip to control the **Wet/Dry** amount in addition to the **Assigned Parameter** as set by clicking the **Touch FX Setup** button at the bottom of the window.

   Wet/Dry: Use this slider to set the blend the original signal (dry) and the effect signal (wet).

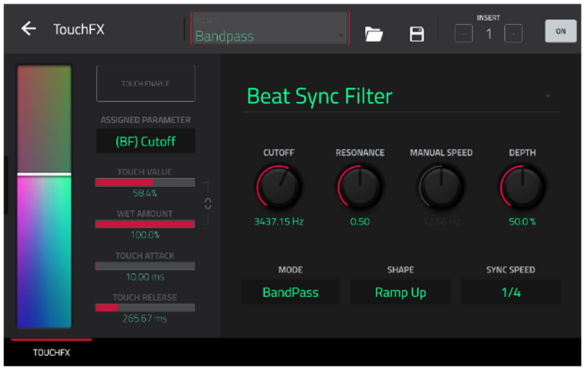
   Attack: Use this slider to set the length of the attack phase of the envelope, which is triggered when you make contact with the touch strip. In other words, this determines how long it takes the effect to fully respond to your touch.

   Release: Use this slider to set length of the release phase of the envelope, which is triggered when you release the touch strip. In other words, this determines how long it takes the effect to fully deactivate after you release your finger from the touch strip.

   Touch FX Setup: Tap this button at the bottom of the window in the software to open the effect plugin setup window to change the parameters for the selected preset.

   In this window, you can also use the **Assigned Parameter** field to select a preset parameter to be controlled by the touch strip. This can be separate from or in addition to controlling the **Wet/Dry** amount, depending on the **Touch > Wet/Dry** setting.

To close the Touch FX Setup window, press and hold **Shift** and press the **Touch Strip** button again.



Use the controls on the left side of the Touch FX plugin window to adjust the settings for MPC Key's **Touch Strip** control. For other hardware, you can control the Touch Strip by assigning it to a MIDI control or by using the virtual touch strip on the touchscreen.

Touch Strip: This strip represents the MPC Key's **touch strip** control, and can also be controlled manually by clicking and dragging from the software, tapping and dragging from a hardware touchscreen, or by assigning it a MIDI control. Use this to control the selected Touch FX.

Touch Enable: Tap this box to enable touch control for the currently selected Touch FX.

Assigned Parameter: Use this field to select a preset parameter to be controlled by the touch strip. This can be separate from or in addition to controlling the **Wet/Dry** amount, depending on the **Touch > Wet/Dry** setting.

Touch Value: Use this slider to control the value of the **Assigned Parameter** controlled by the **touch strip**.

Wet Amount: Use this slider to set the blend the original signal (dry) and the effect signal (wet).

Touch Value / Wet/Dry Lock: Tap the **lock icon** to use the touch strip to control the **Wet/Dry** amount in addition to the touch value of the **Assigned Parameter**.

Touch Attack: Use this slider to set the length of the attack phase of the envelope, which is triggered when you move the touch strip control.

Touch Release: Use this slider to set length of the release phase of the envelope, which is triggered when you release the touch strip control.

Use the controls on the right side of the Touch FX plugin window to select a Touch FX type and adjust its settings. You can also select from the included presets at the top of the window.

See ***Appendix > Effects & Parameters > Harmonic > TouchFX*** for a full list of TouchFX preset settings.

Notes

Select this mode to use the touch strip as a control for playing notes in the selected track.

To configure the Note settings, press and hold **Shift** and press the **Touch Strip** button to open the Touch Strip Notes Config window in the software.

Root Note: Use this field to set the desired root note of the scale.

Scale: Use this field to set the type of scale.

Octave: Use this field to set the starting octave of the root note.

Velocity: Use this field to set the velocity of the notes played with the touch strip.

Number of Notes: Use this field to set the number of notes covered by the length of the touch strip.

Pitch Bend

Select this mode to use the touch strip as you would a pitch wheel on a typical keyboard to control pitch bend.

To configure the Pitch Bend settings, press and hold **Shift** and press the **Touch Strip** button to open the Pitch Bend Settings window in the software.

Relative Mode: When checked, the center pitch is set wherever you first place your finger along the touch strip. When unchecked, the touch strip is fixed with the center being the unchanged noted.

Bend Up Range: Use this field to set the range of the pitch bend up in semitones.

Bend Down Range: Use this field to set the range of the pitch bend down in semitones.

Note: Pitch Bend ranges are only applied to MPC instruments and not to third-party plugins.

Global Pitch Bend: Check this box to override the pitch bend settings of all tracks, so that those with pitch bend disabled or set to different ranges will only use the Global Range instead. When unchecked, all tracks may use their individual pitch bend settings.

Mod Wheel

Select this mode to use the touch strip as you would a mod wheel on a typical keyboard to control the MIDI CC1 modulation control.

Sustain

Select this mode to use the touch strip as you would a sustain pedal on a typical keyboard to enable or disable note sustain. When enabled, notes will continue sounding until sustain is disabled.

Expression

Select this mode to use the touch strip as you would an external expression pedal to control the MIDI CC11 expression control.

Crossfader

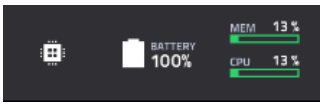
Select this mode to use the touch strip as a virtual crossfader. The center point of the touch strip is the center point of the crossfader. Move down to the A side or up to the B side. You can assign parameters to the Crossfader using ***Q-Link Edit > Crossfader***.

Battery Usage

Important: Only MPC Live and MPC Live II may use battery power. MPC X, MPC One, MPC Key 61, and MPC Key 37 must be connected to a power outlet.

Although you can power MPC Live/Live II from a power outlet (using the included power adapter), you can use its internal battery, which typically has four hours of life, depending on CPU and how you're using MPC Live/Live II.

While powering MPC Live/Live II from its internal battery, the **battery icon** in upper-right corner of the touchscreen will show its current battery life. (The icon beside it indicates whether MPC Live/Live II is in Standalone Mode or Controller Mode.)



To view MPC Live's system resources (battery life, CPU, and RAM usage), tap the **battery icon** in upper-right corner of the touchscreen. The System Resources window will appear, showing percentages to indicate the current battery life, CPU, RAM usage (**Mem**), and storage device space usage.

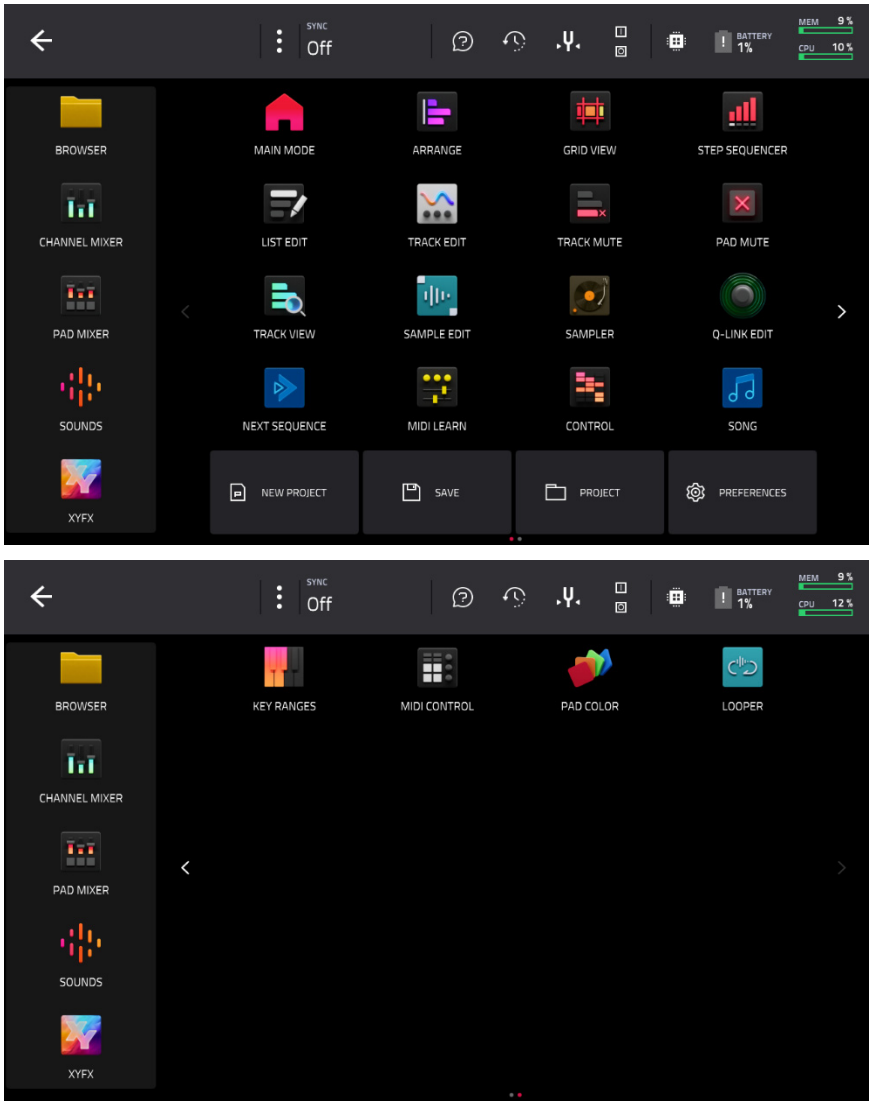
See ***System Resources*** to learn more about the information shown in this window.

To charge MPC Live/Live II's internal battery, connect its **power input** to a power outlet using the included power adapter. The **charging indicator** light (behind the vent on the rear panel for MPC Live/Live II) will turn on while charging. When the battery is fully charged or when it is disconnected from a power outlet, then this light will turn off.

Modes

The MPC hardware has a ***Menu*** page that lets you select any one of several modes. This chapter describes the various features and functions of each one.

Click a button below to skip directly to that chapter.



You can also edit the Menu layout by tapping and dragging the menu icons to your preferred location. This is useful for putting your most-used modes in the left-most column so that they are easily accessed in any mode by swiping to the right from the left edge of the touchscreen.

To reset the Menu layout, tap the **three-dots icon** next to the **Sync** setting, and then tap **Reset Mode Menu**.

Main Mode

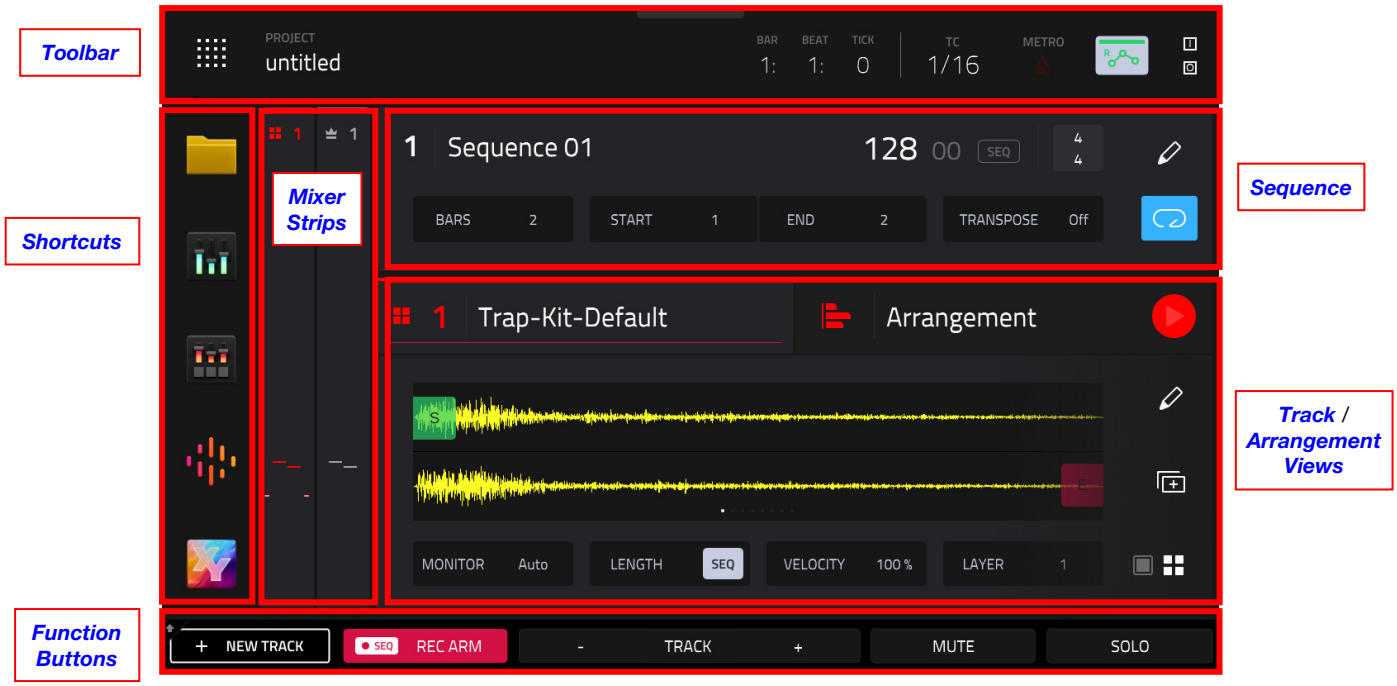
The enhanced Main Mode gives you an overview of the most-used functions in MPC, improving workflow efficiency and streamlining access to crucial visual feedback and editing functions.

To enter Main Mode, do one of the following:

- Press **Main**.
- Press **Menu**, and then tap **Main**.

Overview

Click or tap on part of the image below to jump directly to that section.



Toolbar

The top of the screen shows the project name and timing information.

The **Project** field shows the name of the current project.

The time counter shows the current playhead position, in **bars:beats:ticks**. This is shown in most of the modes. Double-tap to open the ***Locate*** window, where you can adjust the playhead position, manage loop and record settings, and quickly jump to specific points in your project.

The **TC icon** opens the ***Timing Correct (TC)*** window, which contains various settings to help quantize the note events in your sequence.

Press and hold **Shift** and tap the **TC icon** to enable or disable global timing correct.

The **Metro/metronome icon** opens the ***Metronome (Click/Metro)*** menu, which contains all settings regarding the metronome (click track).

Press and hold **Shift** and tap the **Metro/metronome icon** to enable or disable the metronome.

The automation button indicates the global ***Automation*** state. This is shown in several modes.

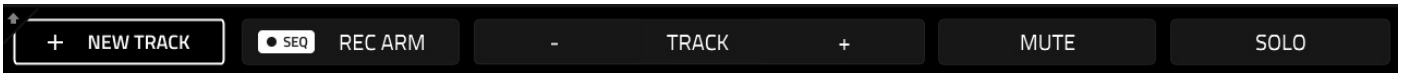
The **In** and **Out** boxes indicate your MPC hardware is receiving or sending (respectively) MIDI messages from or to your computer. Tap here to open the ***MIDI Monitor*** and view the latest incoming or outgoing MIDI messages.

Shortcuts

The five Mode Icons on the left side of the screen provide shortcuts to some of the most-used modes. By default, these are **Browser Mode**, **Channel Mixer Mode**, **Pad Mixer Mode**, **Sounds Mode**, and **XY Mode**.

You can change what mode icons appear here by going to the ***Menu*** and tapping and dragging the mode icons to rearrange them. Mode icons dragged into the left-most column will appear in the shortcuts on the Main menu and when sliding out the tab on the left side of the screen in other modes.

Function Buttons



The buttons at the bottom of the screen perform different functions depending on the current mode. In Main Mode, these functions are as follows:

New Track: Tap this button to add a new track to the project.

Rec Arm: Tap this button to arm Sequence recording.

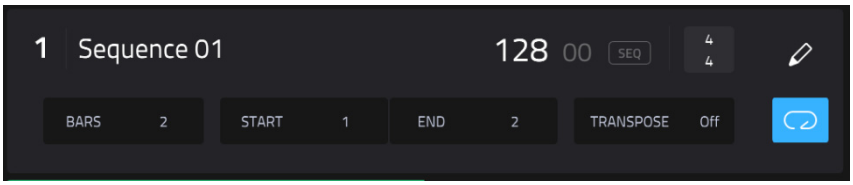
Track –/+: Tap one of these buttons to switch to the previous or next track, respectively.

Mute: Tap this button to mute the current track.

Solo: Tap this button to solo the current track.

Sequence Section

The **Sequence** section shows the current sequence and its information.



Use **Sequence** field to select a sequence.

Tap and hold the **Sequence** name to open the **Sequence Settings** window.

Use the **Name** field to edit the Sequence name.

Use the **Auto-Select Track** field to specify which track is selected when switching sequences. Select **None** to keep the current track selected when changing sequences, or select a specific track from your project.

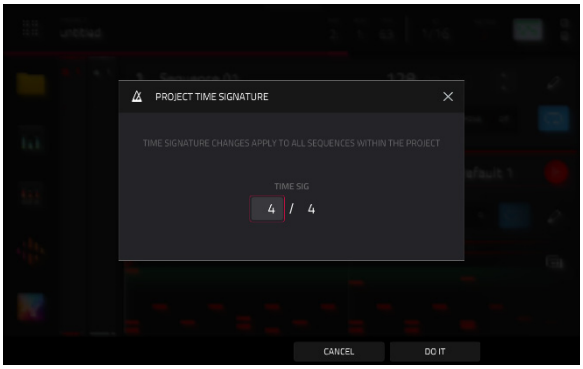
Use the **BPM** field to adjust the tempo of the sequence.

To set whether the sequence follows its own tempo (**Sequence**) **or a global tempo** (**Global**), tap the **Sequence/Global** button under the **BPM** field. Alternatively, press and hold **Shift** and **Tap**.

Tap the **Time Signature** fields to adjust the time signature of the project. The numerator (top number) indicates the number of beats per bar (**1**–**16**). The denominator (bottom number) indicates the note value of each beat (**4**, **8**, **16**, **32**). Time signature changes apply to all sequences within the project.

Tap **Do It** to apply the Time Signature change.

Tap **Cancel**, the **X**, or anywhere outside the window to close it.



Use the **Bars** field to adjust the length of the sequence in bars.

The **Loop** button shows whether the sequence (or a part of it) will loop or not.

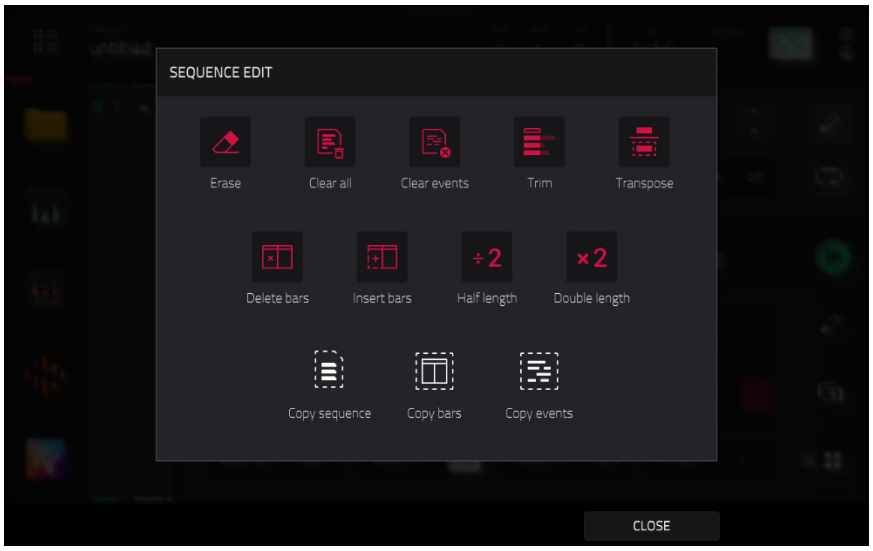
To enable or disable looping, tap the button.

To set the start point and end point of loop, tap the **Start** or **End** field (respectively) and then use the **data dial** or the **–/+** buttons, or double-tap the field and use the numeric keyboard that appears.

Note: The **Last Bar** value of the **Delete Bars** and **Copy Bars** processes depends on the total length of the sequence.

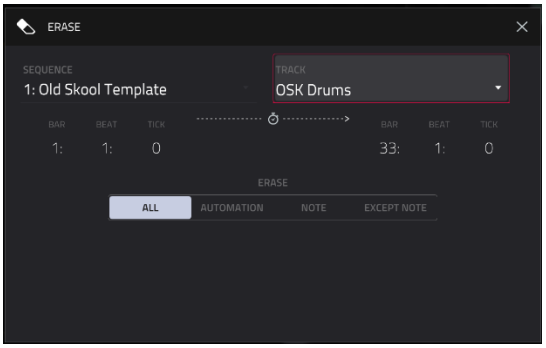
Use the **Transpose** field to set the transposition (in semitones) of the entire sequence.

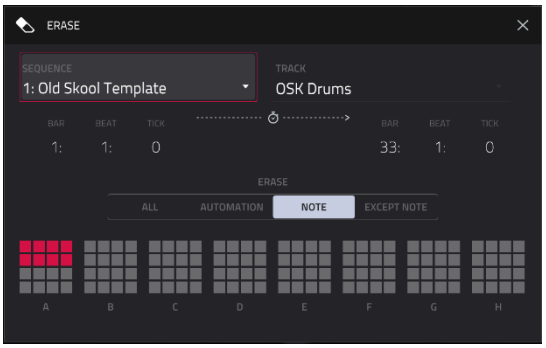
To edit the sequence, tap the **pencil icon** on the right edge of the section. The **Sequence Edit** window will open.



You can use any of these functions as described below, though there are fewer options for audio tracks than for MIDI tracks.

The **Erase** function erases all or part of a track in a specific sequence.





Use the **Sequence** field to select the sequence you want to erase.

Use the **Track** field to select the track you want to erase within the sequence.

Use the **Bar**, **Beat**, and **Tick** fields to set the time range of the sequence you want to erase. The left fields set the start of the time range, and the right fields set the end of the time range.

To select what types of events you erase, select one of the **Erase** options:

All erases all pad events from the designated time range and reset all of its settings.

Automation erases only automation from the designated time range.

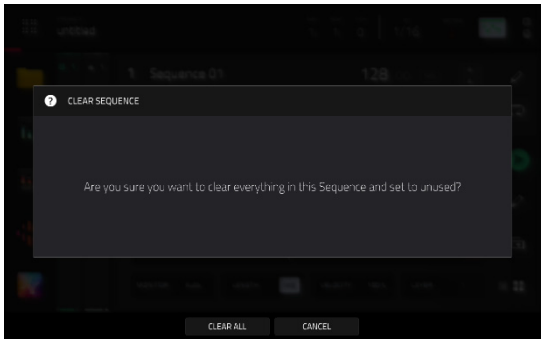
Note erases only specific pad events from the designated time range. In the diagram of the eight pad banks that appears, press each pad in each bank to select or deselect its notes. This option is available only for MIDI tracks, not audio tracks.

Except Note erases everything **except** note events from the designated time range. This option is available only for MIDI tracks, not audio tracks.

Tap **Do It** to confirm your choice.

Tap **Cancel**, the **X**, or anywhere outside the window to return to the previous screen.

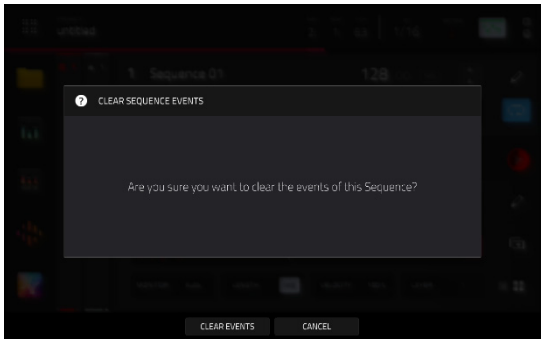
The **Clear All** function erases **all** events from the sequence and resets **all** of its settings.



Tap **Clear All** to confirm your choice.

Tap **Cancel** to return to the previous screen.

The **Clear Events** function only erases **all** events from the sequence.

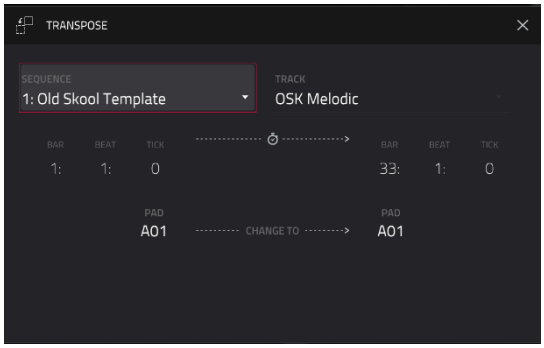


Tap **Clear Events** to confirm your choice.

Tap **Cancel** to return to the previous screen.

The **Trim** function immediately crops the sequence to the length of the **Bars** value.

The **Transpose** function transposes a range of events on a track in a sequence. The events within that range will shift accordingly in the Grid View. This option is available for MIDI tracks only.



Use the **Sequence** field to select the sequence you want to transpose.

Use the **Track** field to select the track you want to transpose within the sequence.

Use the two sets of **Bar**, **Beat**, and **Tick** fields to set the time range of the sequence you want to transpose. The left fields set the start of the time range, and the right fields set the end of the time range.

For drum tracks, use the two **Pad** fields to select the "source" pad (whose events you want to move) and "destination" pad (where the events will be placed). Tap each field and then press the desired pad.

For keygroup tracks, plugin tracks, and MIDI tracks, set the range and amount of transposition:

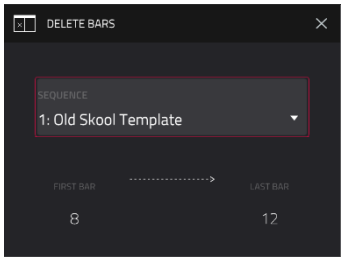
Range: Use the two **Note** fields to set the range of notes of the events you want to transpose. Note events within this range will be transposed, while note events outside of this range will remain unchanged.

Transpose: Use this field to set how many semitones up or down you want to transpose the note events.

Tap **Do It** to confirm your choice.

Tap **Cancel**, the **X**, or anywhere outside the window to return to the previous screen.

The **Delete Bars** function removes a range of bars from a sequence.



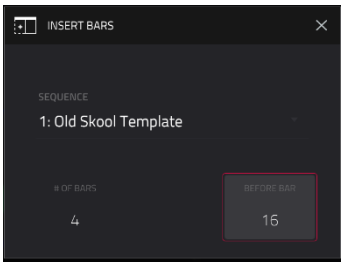
Use the **Sequence** field to select the sequence whose bars you want to delete.

Use the **First Bar** and **Last Bar** fields to set the range of bars you want to delete. The bar in each field and all bars in between them will be deleted.

Tap **Do It** to confirm your choice.

Tap **Cancel**, the **X**, or anywhere outside the window to return to the previous screen.

The **Insert Bars** function adds empty bars to a sequence at a specified point.



Use the **Sequence** field to select the desired sequence.

Use the **# of Bars** field to set how many bars you will insert.

Use the **Before Bar** field to set where you will insert the bars. The bars will be inserted before this one.

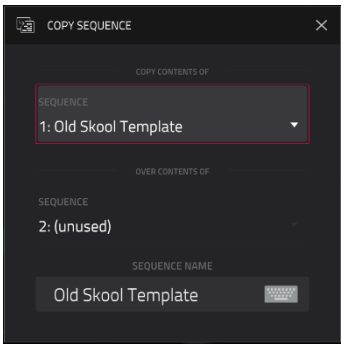
Tap **Do It** to confirm your choice.

Tap **Cancel**, the **X**, or anywhere outside the window to return to the previous screen.

The **Half Length** function will **immediately** halve the length of the sequence (without deleting any note events).

The **Double Length** function will **immediately** double the sequence and copy all events from the first half to the second half.

The **Copy Sequence** function copies the contents of one sequence to another.



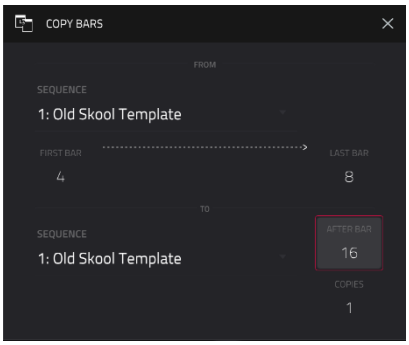
Use the **Copy Contents of Sequence** field to select the “source” sequence. This is the sequence whose events you want to copy.

Use the **Over Contents of Sequence** field to select the “destination” sequence. This is the sequence where the source sequence will be copied.

Tap **Do It** to confirm your choice.

Tap **Cancel**, the **X**, or anywhere outside the window to return to the previous screen.

The **Copy Bars** function copies a range of bars from a sequence and adds them to another at a specified point.



Use the **From Sequence** field to select the “source” sequence. This is the sequence whose bars you want to copy.

Use the **First Bar** and **Last Bar** fields to set the range of bars to copy in the source sequence.

Use the **To Sequence** field to select the “destination” sequence. This is the sequence where the source sequence bars will be copied.

Use the **After Bar** field to set where you want to add the copied bars. The copied bars will be inserted after this one.

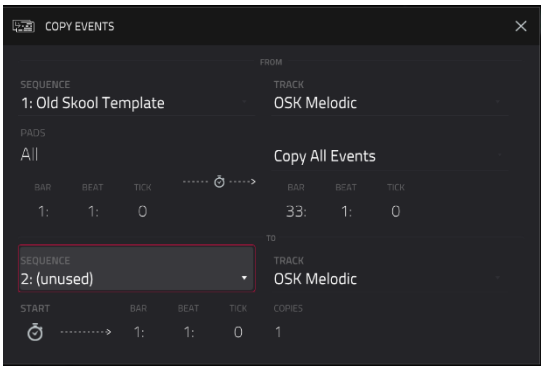
Use the **Copies** field to set how many instances of the copied bars you want to add.

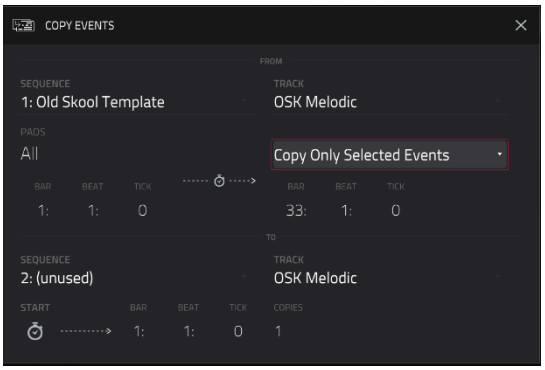
Tap **Replace** to overwrite the destination sequence.

Tap **Merge** to add the events to the destination sequence without erasing anything.

Tap **Cancel**, the **X**, or anywhere outside the window to return to the previous screen.

The **Copy Events** function copies a range of events or selected audio track regions from a sequence and adds them to another at a specified point.





Use the **From Sequence** field to select the “source” sequence. This is the sequence whose content you want to copy.

Use the **From Track** field to select the “source” track. This is the track whose content you want to copy.

The **Pads** or **Notes** field will specify the pads or notes from which to copy events. By default, this will be set to **All** to copy all events in the current track. **To select specific pads or notes**, press the corresponding pads on your MPC hardware.

Use the **Selection** field to set what notes are copied from the chosen time range. **Copy All Events** will copy and paste all events in the track. **Copy Only Selected Events** will copy and paste only the events that are currently selected. This field is available for MIDI tracks only.

Use the **Bar**, **Beat**, and **Tick** fields to set the time range of the events or the audio track you want to copy. The left fields set the start of the time range, and the right fields set the end of the time range.

Use the **To Sequence** field to select the “destination” sequence. This is the sequence where the content of the source sequence will be copied.

Use the **To Track** field to select the “destination” track. This is the track where the content of the source track will be copied.

Use the **Bar**, **Beat**, and **Tick** fields to set where you want to add the copied events or audio track. The events or audio track will be added after this point.

Use the **Copies** field to set how many instances of the copied events or audio track you want to add.

Tap **Replace** to overwrite the destination sequence.

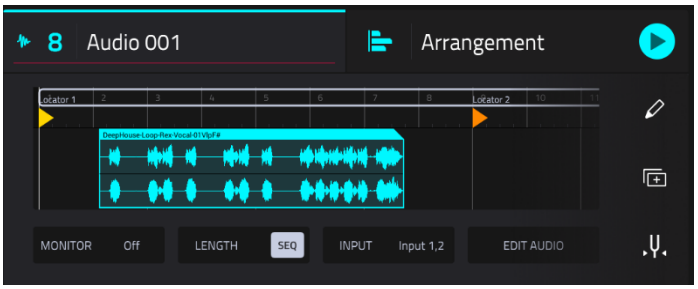
Tap **Merge** to add the events to the destination sequence without erasing anything.

Tap **Cancel**, the **X**, or anywhere outside the window to return to the previous screen.

Track Section

The **Track** section displays essential details for the current track type and facilitates track-specific editing operations.

Example **Track** section while using a Drum track.



Example **Track** section while using an Audio track.

The track field shows the track number and its name.

To edit the name of the track, tap and hold on the track name to open the **Track Settings** window, and then use the **Name** field.

To change tracks, use the **Track -/+** buttons at the bottom of the screen. Alternatively, tap the **Track** header and use the **data dial** or **+/-** buttons.

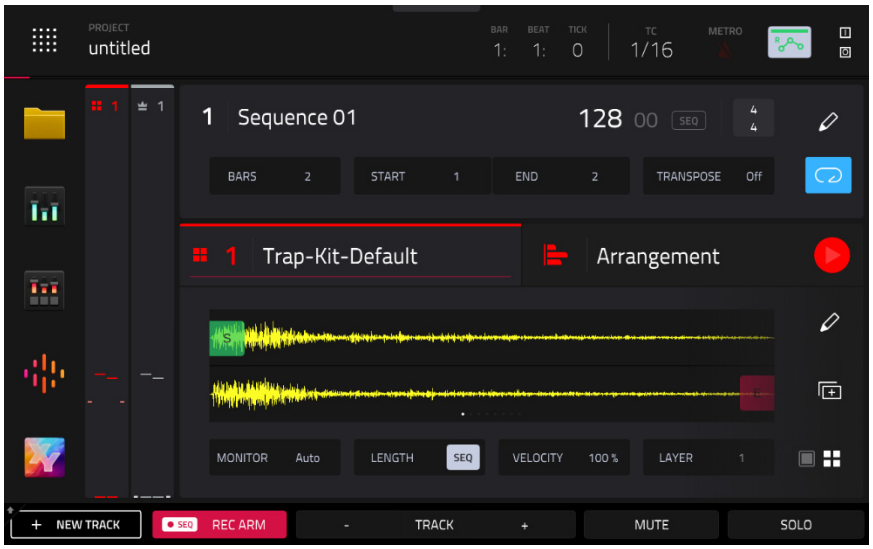
You can also press and hold **Main** and a window will appear showing all tracks in your project in a four-by-four layout, mirroring your MPC pads. Tap a track in the window to select, or press the respective pad on your hardware.

From this window, you can also tap **Tracks**, **Submixes**, **Returns**, and **Outputs** to display the selected track types in the window, and then select one in the same way.

To change track type, tap the track type icon next to the track number, and then select the track type from the menu that appears.

Drum Tracks

To select a pad, simply tap the pad on your MPC hardware.



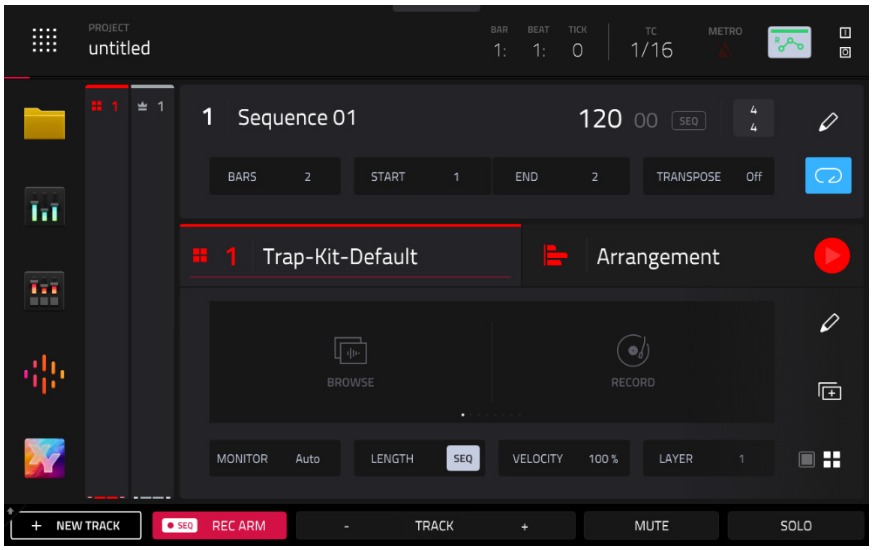
When a sample is loaded to the selected pad:

The **waveform** displays the sample loaded to the selected pad on the selected layer.

In the waveform preview, pinch in or out to adjust the zoom level. You can also adjust the start (**S**) marker (if **Loop Lock** is on), **loop** marker (if **Loop Lock** is off), and end (**E**) marker by tapping and dragging.

Double-tap the waveform preview to open the **Samples** tab of ***Track Edit*** mode.

To change layers, use the **Layer** field at the bottom of the track section.



If no sample is loaded to the selected pad:

Tap **Browse** to open the Browser to search for and select a sample to load.

Tap **Record** to open the Sampler to record and load a new sample. Alternatively, you can record a sample directly to the pad from Main Mode:

1. Press the **Rec** button on your MPC hardware to arm recording.
2. Tap an empty pad to arm it for recording. Recording will follow the settings established in the ***Sampler*** mode regarding active inputs and threshold. When you are finished recording, tap the pad again. You can also press and hold a pad, and recording will continue as long as the pad is held.

Use the **Monitor** field to set how your track will be monitored. Double-tap this field to open the menu, or tap to select the field and then use the **data encoder** or **+/-** buttons to cycle through its four states:

When set to **Off**, the track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

When set to **In**, the track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

When set to **Auto**, the track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.

When set to **Merge**, the track's MIDI input is always monitored, and playback of recorded events will be heard.

Use the **Length** field to set how long the track is in beats. When the **SEQ** button is on, the track length will follow the Sequence length. When this button is off, use the **Bars:Beats:Ticks** values to set the exact track length.

Tip: This feature lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

Use the **Velocity** field to set how loudly or quietly a track plays relative to its recorded levels. When set to **50%**, the track will be played with half the velocity it was originally played. When set to **200%**, the track will play twice as loud. The maximum velocity level is still **127**, though. This setting will also affect pads or other MIDI-related input for that specific track.

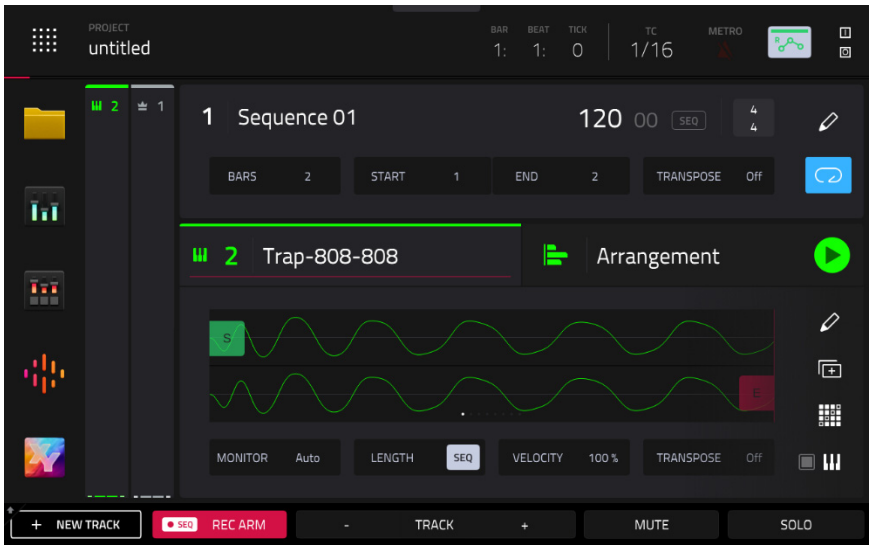
Use the **Layer** field to select which of the eight available sample layers are shown. The layer number is shown here, and the dots in the waveform preview indicate the layer shown.

Tap the **pencil icon** to open the **Track Edit** window. See ***Track Edit*** to learn more.

Tap the **Duplicate Track** icon to immediately create an identical track on a new track.

Tap the **pad / four pads** icons to swap the Mixer Channel Strip between showing **Track** and **Pad** settings. See ***Mixer Strips*** to learn more.

Keygroup Tracks



The **waveform** displays the sample loaded to the selected pad on the selected layer.

In the waveform preview, you can adjust the start (**S**) marker (if **Loop Lock** is on), **loop** marker (if **Loop Lock** is off), and end (**E**) marker by tapping and dragging.

Double-tap the waveform preview to open the **Samples** tab of **Track Edit** mode.

Use the **Monitor** field to set how your track will be monitored. Double-tap this field to open the menu, or tap to select the field and then use the **data encoder** or **+/-** buttons to cycle through its four states:

When set to **Off**, the track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

When set to **In**, the track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

When set to **Auto**, the track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.

When set to **Merge**, the track's MIDI input is always monitored, and playback of recorded events will be heard.

Use the **Length** field to set how long the track is in beats. When the **SEQ** button is on, the track length will follow the Sequence length. When this button is off, use the **Bars:Beats:Ticks** values to set the exact track length.

Tip: This feature lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

Use the **Velocity** field to set how loudly or quietly a track plays relative to its recorded levels. When set to **50%**, the track will be played with half the velocity it was originally played. When set to **200%**, the track will play twice as loud. The maximum velocity level is still **127**, though. This setting will also affect pads or other MIDI-related input for that specific track.

Use the **Transpose** field to set the transposition (in semitones) of the entire track.

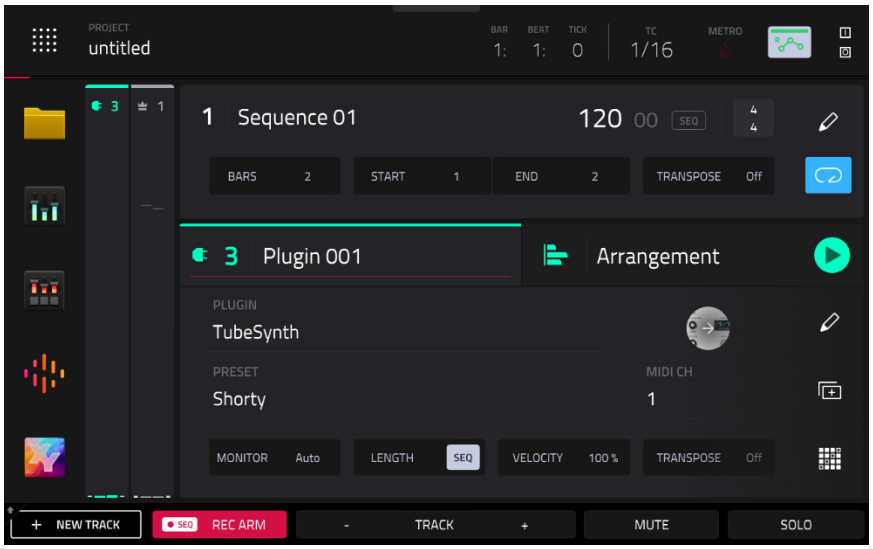
Tap the **pencil icon** to open the **Track Edit** window. See ***Track Edit*** to learn more.

Tap the **Duplicate Track** icon to immediately create an identical track on a new track.

Tap the **pad perform** icon to open the ***Pad Perform*** window, where you can adjust what notes or chords are played by the pads on your MPC hardware.

Tap the **pad / keyboard** icon to swap the Mixer Channel Strip between showing **Track** and **Keygroup** settings.

Plugin Tracks



Use the **Plugin** field to select the plugin the track is using. In the screen that appears, you can tap the **Type** or **Manufacturer** button at the bottom of the screen to enable or disable sorting of your plugins by type or maker.

Use the **Preset** field to select a preset (if any) within the plugin the track is using.

Tap the **plugin preview icon** to open Track Edit Mode and view the plugin interface.

Use the **MIDI Ch** field to select the MIDI channel over which the track sends its MIDI data.

Use the **Monitor** field to set how your track will be monitored. Double-tap this field to open the menu, or tap to select the field and then use the **data encoder** or **+/-** buttons to cycle through its four states:

When set to **Off**, the track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

When set to **In**, the track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

When set to **Auto**, the track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.

When set to **Merge**, the track's MIDI input is always monitored, and playback of recorded events will be heard.

Use the **Length** field to set how long the track is in beats. When the **SEQ** button is on, the track length will follow the Sequence length. When this button is off, use the **Bars:Beats:Ticks** values to set the exact track length.

Tip: This feature lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

Use the **Velocity** field to set how loudly or quietly a track plays relative to its recorded levels. When set to **50%**, the track will be played with half the velocity it was originally played. When set to **200%**, the track will play twice as loud. The maximum velocity level is still **127**, though. This setting will also affect pads or other MIDI-related input for that specific track.

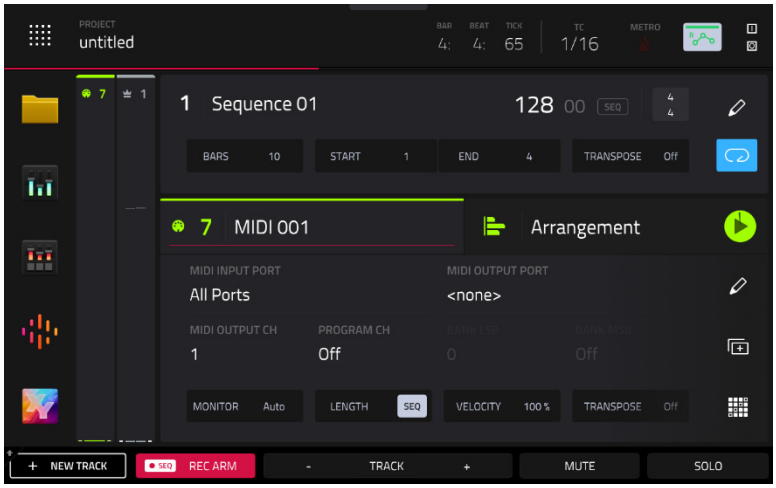
Tap the **pencil icon** to open the **Track Edit** window. See ***Track Edit*** to learn more.

Use the **Transpose** field to set the transposition (in semitones) of the entire track.

Tap the **Duplicate Track** icon to immediately create an identical track on a new track.

Tap the **Pad Perform** icon to open the ***Pad Perform*** window, where you can adjust what notes or chords are played by the pads on your MPC hardware.

MIDI Tracks



Use the **MIDI Input Port** field to select the port over which the track receives its MIDI data.

Use the **MIDI Output Port** field to select the port over the track sends its MIDI data.

Use the **MIDI Output Ch** field to select the MIDI channel over which the track sends its MIDI data.

Use the **Program Ch** field to select the program change message the track sends out.

Use the **Bank LSB** and **Bank MSB** fields to select the messages for Least Significant Byte and Most Significant Byte (respectively) that the track sends out.

Use the **Monitor** field to set how your MIDI track will be monitored. Double-tap this field to open the menu, or tap to select the field and then use the **data encoder** or **+/-** buttons to cycle through its four states:

- When set to **Off**, the track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.
- When set to **In**, the track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.
- When set to **Auto**, the track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.
- When set to **Merge**, the track's MIDI input is always monitored, and playback of recorded events will be heard.

Use the **Length** field to set how long the track is in beats. When the **SEQ** button is on, the track length will follow the Sequence length. When this button is off, use the **Bars:Beats:Ticks** values to set the exact track length.

Tip: This feature lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

Use the **Velocity** field to set how loudly or quietly a track plays relative to its recorded levels. When set to **50%**, the track will be played with half the velocity it was originally played. When set to **200%**, the track will play twice as loud. The maximum velocity level is still **127**, though. This setting will also affect pads or other MIDI-related input for that specific track.

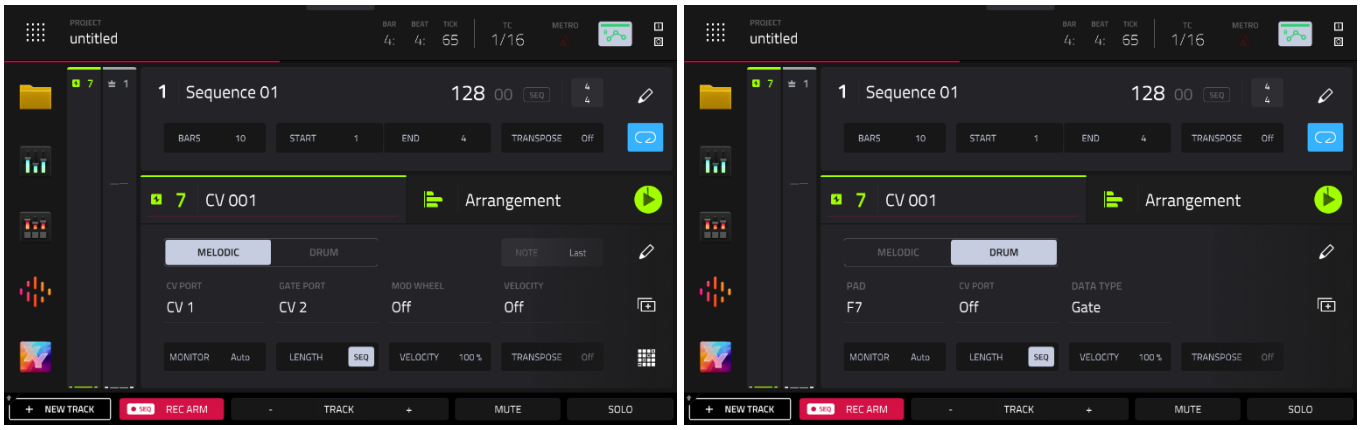
Use the **Transpose** field to set the transposition (in semitones) of the entire track.

Tap the **pencil icon** to open the **Track Edit** window. See ***Track Edit*** to learn more.

Tap the **Duplicate Track** icon to immediately create an identical track on a new track.

Tap the **Pad Perform** icon to open the ***Pad Perform*** window, where you can adjust what notes or chords are played by the pads on your MPC hardware.

CV Tracks



Use the **Melodic / Drum** buttons to set the CV operation type.

When set to **Melodic** type, you can adjust the Note Priority (**Note/Last**), the **CV Port**, the **Gate Port**, the modulation wheel port (**Mod Wheel Port**), and **Velocity Port**.

When set to **Drum** type, you can configure any **Pad** to output on any **CV Port**, as well setting the **Data Type**.

Use the **Monitor** field to set how your track will be monitored. Double-tap this field to open the menu, or tap to select the field and then use the **data encoder** or **+/-** buttons to cycle through its four states:

When set to **Off**, the track's input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

When set to **In**, the track's input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

When set to **Auto**, the track's input is monitored when the track is record armed, and playback of recorded events will be heard.

When set to **Merge**, the track's input is always monitored, and playback of recorded events will be heard.

Use the **Length** field to set how long the track is in beats. When the **SEQ** button is on, the track length will follow the Sequence length. When this button is off, use the **Bars:Beats:Ticks** values to set the exact track length.

Tip: This feature lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

Use the **Velocity** field to set how loudly or quietly a track plays relative to its recorded levels. When set to **50%**, the track will be played with half the velocity it was originally played. When set to **200%**, the track will play twice as loud. The maximum velocity level is still **127**, though. This setting will also affect pads or other MIDI-related input for that specific track.

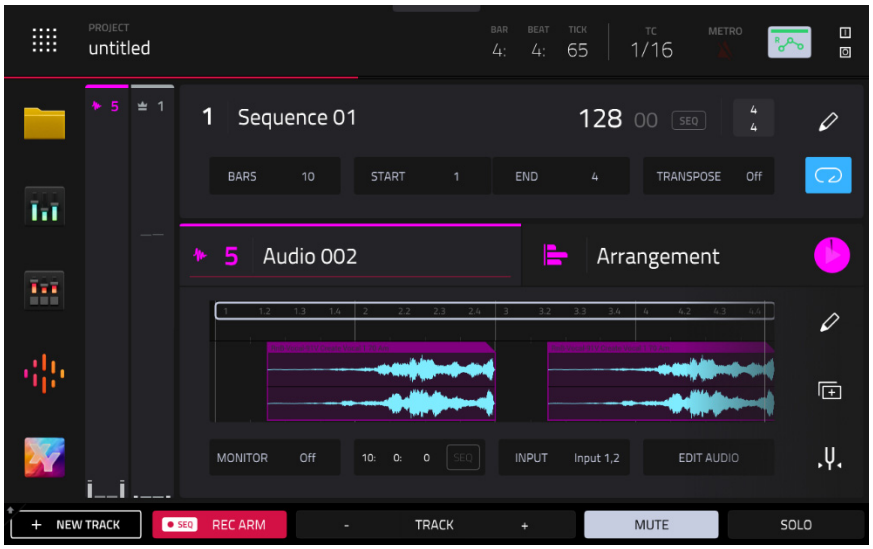
Use the **Transpose** field to set the transposition (in semitones) of the entire track.

Tap the **pencil icon** to open the **Track Edit** window. See ***Track Edit*** to learn more.

Tap the **Duplicate Track** icon to immediately create an identical track on a new track.

When the CV track type is set to **Melodic**, tap the **Pad Perform** icon to open the ***Pad Perform*** window, where you can adjust what notes or chords are played by the pads on your MPC hardware.

Audio Tracks



Tap and drag the **Loop marker** to adjust the loop length. Dragging from either end will extend or shorten the loop. Dragging from the middle of the loop marker will move the entire loop.

Double-tap the audio sample timeline to open **Grid View** for the audio track, where you can edit the audio regions.

Use the **Monitor** field to set how your audio track will be monitored. Double-tap this field to open the menu, or highlight this field and then use the **data dial** or +/- buttons to choose from the following:

When set to **Off**, you will never hear any incoming audio.

When set to **In**, you will hear incoming audio whether or not the track is record-enabled.

When set to **Auto**, you will hear incoming audio while the track is record-enabled only.

When set to **Merge**, the track's input is always monitored, and you will hear playback of audio.

Use the **Length** field to set how long the track is in beats. When the **SEQ** button is on, the track length will follow the Sequence length. When this button is off, use the **Bars:Beats:Ticks** values to set the exact track length.

Tip: This feature lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

Use the **Input** field to select which inputs the audio track will use.

Use the **Edit Audio** button to open the audio **Grid View** for the audio track, where you can edit the audio regions.

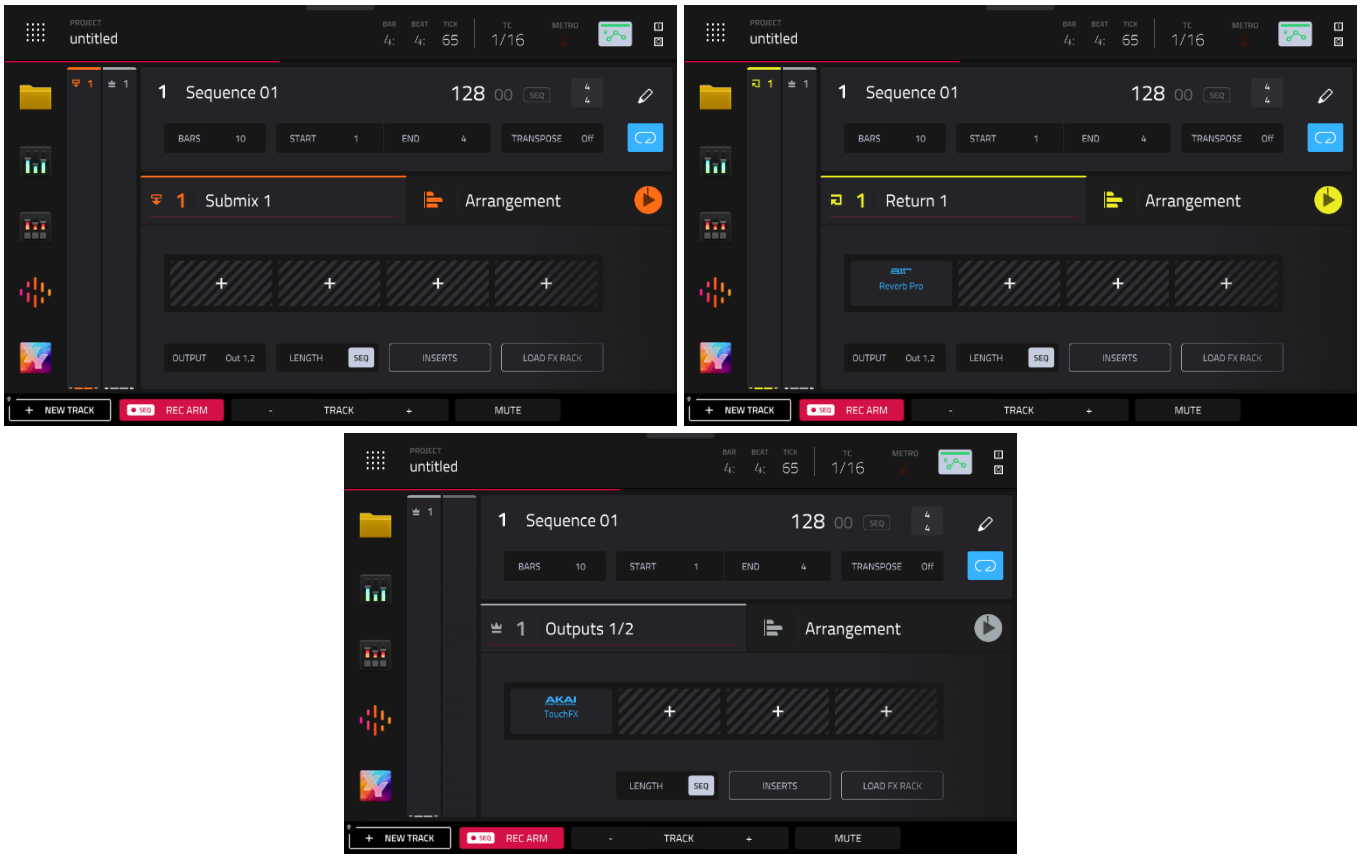
Tap the **pencil icon** to open the **Track Edit** window. See ***Track Edit*** to learn more.

Tap the **Duplicate Track** icon to immediately create an identical track on a new track.

Tap the **Tuner** icon to open the built-in ***Tuner***, which allows you to easily tune any connected audio source.

Buses

In addition to the previous track types, you can also view and edit bus tracks including **Submixes**, **Returns**, and **Outputs** in this section.



Use the **Inserts** boxes to add or view inserts effects. Tap the **+** icon in an empty slot to add a new effect. Tap an insert slot with a loaded effect to view the effect's controls.

Use the **Output** field to set the output routing for the bus. This is not available when viewing the **Outputs**.

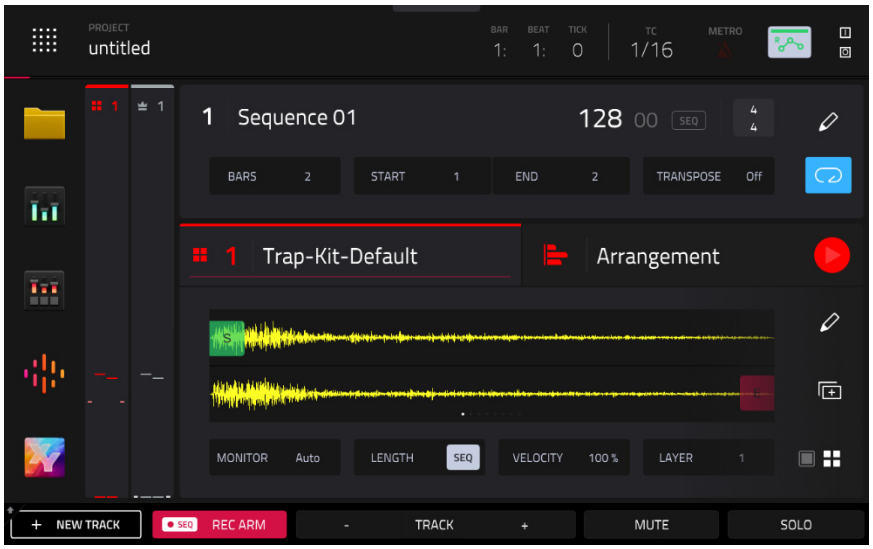
Use the **Length** field to set how long the track is in beats. When the **SEQ** button is on, the track length will follow the Sequence length. When this button is off, use the **Bars:Beats:Ticks** values to set the exact track length.

Tip: This is useful when creating automation on your bus track.

Tap the **Inserts** button to open a window where you can load, change, and enable or disable the effects.

Tap the **Load FX Rack** to load a factory or user-saved FX rack to the track.

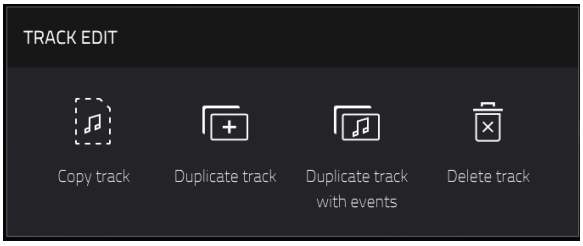
Track Edit



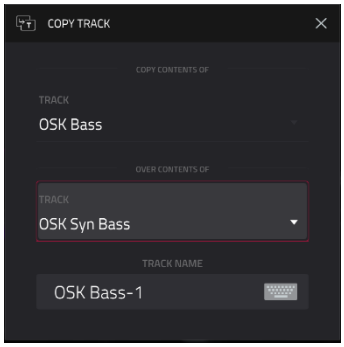
To edit the track, tap the **pencil icon** on the right edge of the section. The Track Edit window will open.

> **To return to Main Mode**, tap **Cancel** or the left arrow (←) in the upper-left corner of the screen. Alternatively, press **Main**.

The available functions in the Track Edit depend on the type of track selected. The following functions are available for all tracks:



The **Copy Track** function copies the contents of one track to another.



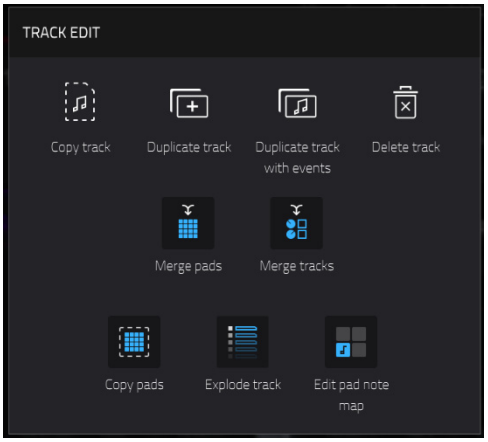
> Use the **Copy Contents of Track** field to select the "source" track. This is the track whose events you want to copy.
>
> Use the **Over Contents of Track** field to select the "destination" track. This is the track where the source track will be copied.
>
> Tap **Do It** to confirm your choice, or tap **Cancel** to cancel and return to Main Mode.

The **Duplicate Track** function immediately creates an identical track on a new track.

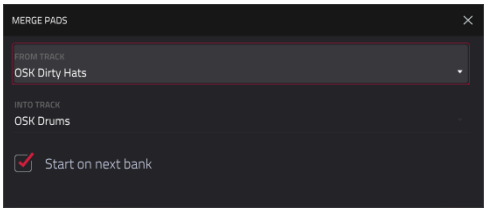
The **Duplicate Track with Events** function immediately creates an identical track, including all existing events on that track, on a new track.

The **Delete Track** function instantly removes the track and all of its contents.

Additionally, when a **Drum** track is selected, the following options are available.



The **Merge Pads** function allows you to merge samples and settings from two drum tracks together.



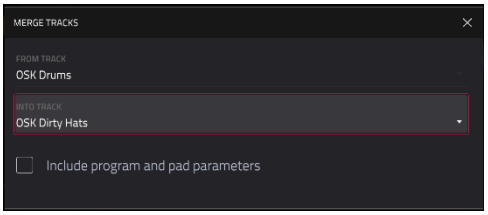
Use the **From Track** field to select the track from which the pads will be copied.

Use the **Into Track** field to select the track to which the copied pads will be merged.

Check the **Start on next bank** field to merge the samples and settings at the start of the next unused bank.

Tap **Do It** to merge the pads, or tap **Cancel** to close the window and return to the previous screen.

The **Merge Tracks** function lets you combine the contents of one drum track into another.



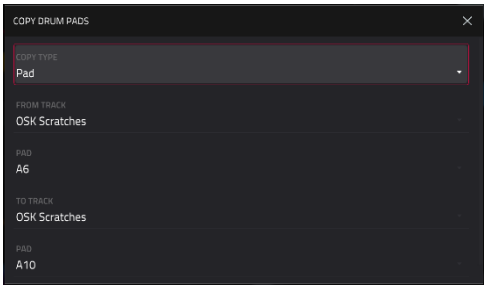
Use the **From Track** field to select the track whose contents will be copied.

Use the **Into Track** field to select the track to which the copied track will be merged.

Check the **Include program and pad parameters** field to merge the track settings into the new track.

Tap **Do It** to merge the tracks, or tap **Cancel** to close the window and return to the previous screen.

The **Copy Pads** function allows you to copy one or more pads from one drum track to another.



Use the **Copy Type** menu to select whether you want to copy an individual **Pad**, a **Bank** of pads, or a **Range** of pads. Use the fields that appear to select the **Pad**, **From Bank** or **Start**/**End Pads** that will be copied.

Use the **From Track** field to select the track from which the pads are copied.

Use the **To Track** field to select the track to which the copied pads are added.

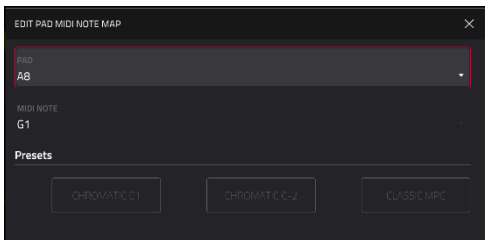
Use the **Pad**, **To Bank** or **Start Pad** fields to set the starting point where the copied pads are added.

Tap **Apply** to copy the pads and keep this window open.

Tap **Do It** to copy the pads and close the window, or tap **Close** to close the window without making any changes.

The **Explode Track** function immediately breaks down a Drum track containing samples and events into multiple new tracks, making it easier to mute individual drum elements using ***Track Mute Mode***. Each new track will keep the pad and track insert effects of the original source track. Where pads with events are assigned to a mute group, those pads are copied to a single track.

The **Edit Pad Note Map** function lets you assign specific MIDI notes to your MPC hardware pads.

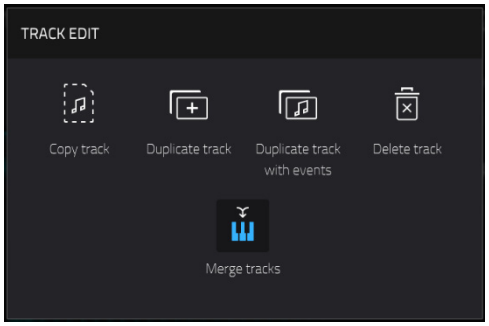


Use the **Pad** field to select a pad, or press the pad on your hardware.

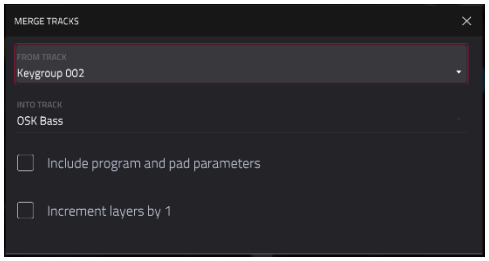
Use the **MIDI Note** field to set the desired MIDI note value for the pad.

Use the **Presets** buttons to assign a preset layout to the pads: **Chromatic C1** (an ascending chromatic scale, beginning with C1), **Chromatic C-2** (an ascending chromatic scale, beginning with C-2), or **Classic MPC** (the default MIDI note map of classic MPCs).

When a Keygroup track is selected, you can also access the **Merge tracks** function.



The **Merge Tracks** function lets you combine the contents of one keygroup track into another.



Use the **From Track** field to select the track whose contents will be copied.

Use the **Into Track** field to select the track to which the copied track will be merged.

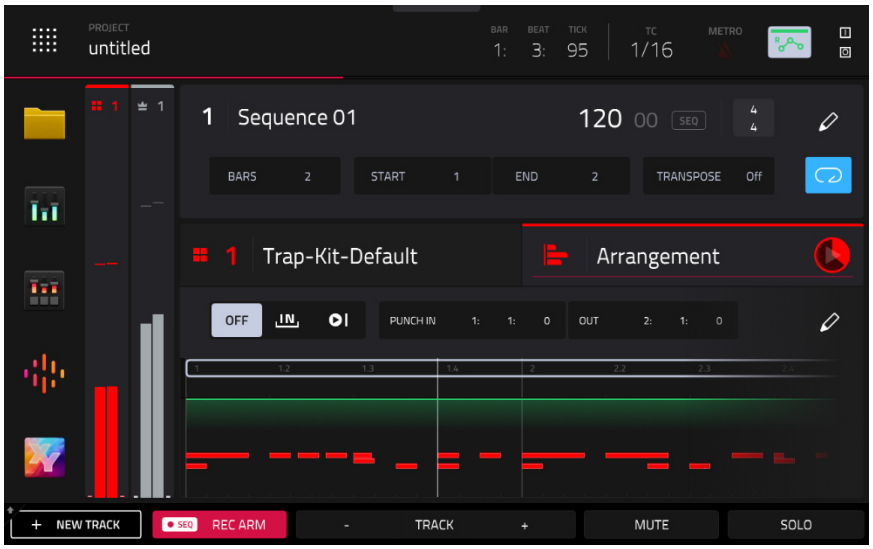
Check the **Include program and pad parameters** field to merge the track settings into the new track.

Check the **Increment layers by 1** to append the **From Track**'s keygroup sample layer(s) to the next available layer in the **Into Track**.

Tap **Do It** to merge the tracks, or tap **Cancel** to close the window and return to the previous screen.

Arrangement Section

The **Arrangement** section displays recorded events on the linear timeline and provides easy access to its editing functions.



Tap the **play icon** to begin playback of the linear arrangement.

Use the **Auto Record** buttons to determine how punch in auto recording is enabled:

Off: Auto Record at Punch In is turned off.

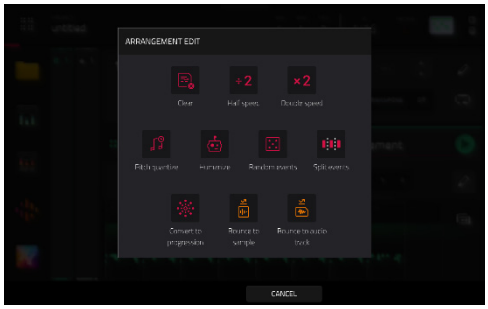
In: Auto Record at Punch In is enabled. Once playback reaches the Punch In point, recording will begin automatically.

Loop Start: Once playback reaches the Loop Start point, recording will begin automatically.

Use the **Punch In** and **Out** field to set the start and end points for Punch In Auto Recording.

Double-tap on the linear timeline to open ***Grid View*** displaying the current track.

Tap the **pencil icon** to open the **Arrangement Edit** options for the arrangement.



The following function is available for all track types:

The **Clear** function erases **all** events from the sequence for the current track.

Tap **Clear** to confirm your choice.

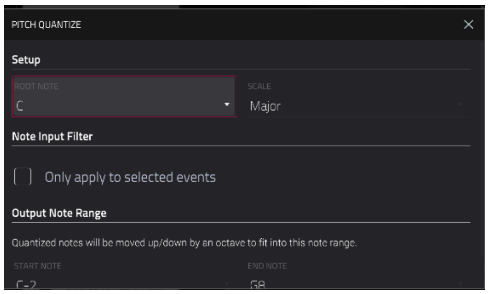
Tap **Cancel** to return to the previous screen.

The following functions are available for all track types except Audio:

The **Half-Speed** function **immediately** doubles the lengths of all note events in the arrangement as well as the distance between them. In other words, all notes are spread further apart so the arrangement sounds like it is playing at half of the previous speed. This does not actually affect the pitches of notes or the tempo.

The **Double-Speed** function **immediately** halves the lengths of all note events in the arrangement as well as the distance between them. In other words, all notes are pressed closer together so that the arrangement sounds like it is playing at twice the previous speed. This does not actually affect the pitches of notes or the tempo.

The **Pitch Quantize** function forces the pitches of MIDI note events into a specific scale.



Use the **Root Note** field to select the desired root note of the scale.

Use the **Scale** field to select a type of scale.

To determine which note events will be quantized, tap the **Only apply to selected events** checkbox.

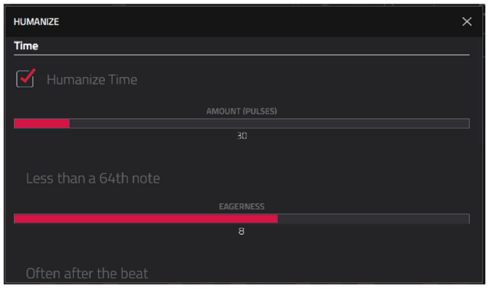
When **on**, only the currently selected note events will be quantized.

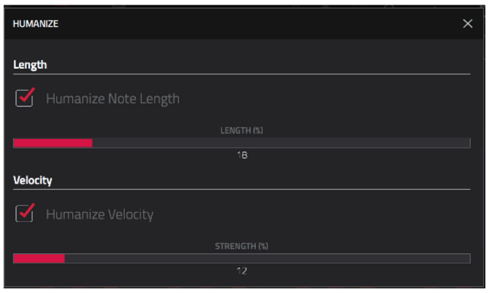
When **off**, **all** pitches in the current track will be quantized.

Use the **Start Note** and **End Note** fields to set lowest-possible and highest-possible pitches where the quantized note events will be placed (respectively). If a note event is originally outside of this range, it will be forced to the nearest pitch (within the scale) inside the range.

Tap **Do It** to confirm your choice, or tap the **X**, **Cancel**, or anywhere outside the window to cancel and return to the previous screen.

The **Humanize** function applies randomization to the timing, length, and/or velocity of note events.





Tap the **Humanize Time** checkbox to select whether or not humanization will be applied to the timing of note events.

Use the **Amount** (**Pulses**) slider to select the maximum number of pulses by which the timing of an event will be adjusted.

Use the **Eagerness** slider to set how dramatically the humanization effect is applied to the timing. Negative values correspond to playing “ahead of the beat” while positive values correspond to playing “behind the beat.”

Tap the **Humanize Note Length** checkbox to set whether or not humanization will be applied to the duration of note events.

Use the **Length** (**%**) slider to set how dramatically the humanization effect is applied to note lengths.

Tap the **Humanize Velocity** checkbox to set whether or not humanization will be applied to the velocities of note events.

Use the **Strength** (**%**) slider to set how dramatically the humanization effect is applied to note velocities.

Tap the **Only Apply to Selected Events** checkbox to determine which notes will use these humanization values:

When **on**, just the currently selected notes will be humanized.

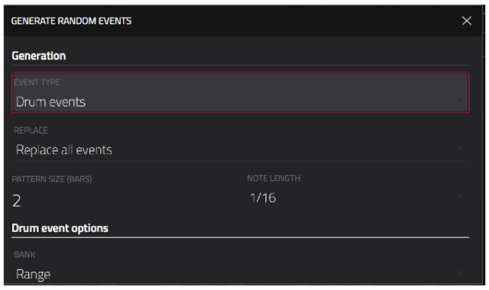
When **off**, all notes in the arrangement will be humanized.

Tap **Apply** to apply humanization and keep this window open.

Tap **Do It** to apply humanization and close the window.

Tap **Close**, the **X**, or anywhere outside the window to close the window without making any changes.

The **Random Events** function creates random melodic or drum patterns in the current arrangement.



Use the **Event Type** field to select **Drum Events** or **Melodic Events** to select the type of events you want to create.

Use the **Replace** field to select how the events will be created relative to the existing events on the track:

Replace All Events: Select this option to replace all events in the arrangement with the randomly generated ones.

Replace Events in Note Range: Select this option to replace all events in the designated note range in the arrangement with the randomly generated ones. Use the **Bank** or **Start Pad** and **End Pad** menus to set the note range for drum events or the **Start Note** and **End Note** menus to set the note range for melodic events.

Add to Existing Events: Select this option to add the randomly generated events to the arrangement without replacing or overwriting the existing ones.

Use the **Pattern Size** (**Bars**) field to set how many bars the events will use. The highest possible value is the number of bars in the current arrangement.

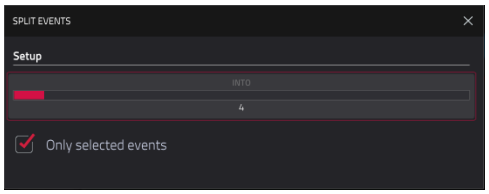
Use the **Note Length** field to select the duration of the events. (This feature is nonfunctional if **Legato** is enabled while generating melodic events.)

Tap **Apply** to generate the events and keep this window open.

Tap **Do It** to generate the events and close the window.

Tap **Close**, the **X**, or anywhere outside the window to close the window without generating any events.

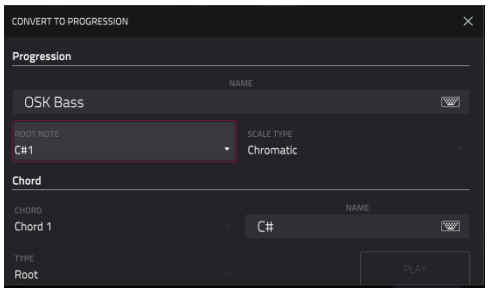
The **Split Events** process divides note events into an equal number of parts.



Use the **Into** slider to select the number of parts the event(s) will be split into.

Tap the **Only selected events** checkbox to apply the process only to currently selected events. When unchecked, all events will be split.

The **Convert to Progression** function creates a custom Progression from a melodic MIDI track that you can use to perform with Progressions Note mode.



Use the **Progression** fields to set the parameters of the new Progression:

- Use the **Name** field to set the progression name.
- Use the **Root Note** field to set the root note.
- Use the **Scale Type** field to set the scale type.

Use the **Chord** fields to set the parameters for the chords in the Progression:

- Use the **Chord** field to select a chord from the progression to edit.
- Use the **Name** field to rename the selected chord.
- Use the **Type** field to set the type of chord: **Root**, **Normal** or **Below Root**.
- Tap the **Play** button to play the selected chord.

Tap **Do It** to convert the progression and close the window.

Tap **Close**, the **X**, or anywhere outside the window to close the window and return to the previous screen.

The following functions are available for **Drum**, **Keygroup**, and **Plugin** tracks:

The **Bounce to Sample** function renders the current track in the arrangement as an audio sample and places it in the project's sample pool. By default, it will be named **Bounce** and appended with the track name.

Use the **Audio Tail** field to set the amount, in **seconds**, of extra time added to the end of the resulting audio files.

The **Bounce to Audio Track** function renders the current track in the arrangement and adds it as a new audio track in the project. The Main Mode will automatically switch to the **Audio** track. By default, it will be named **Bounce** and appended with the track name. This function does not work for MIDI tracks or CV tracks.

Use the **Audio Tail** field to set the amount, in **seconds**, of extra time added to the end of the resulting audio files.

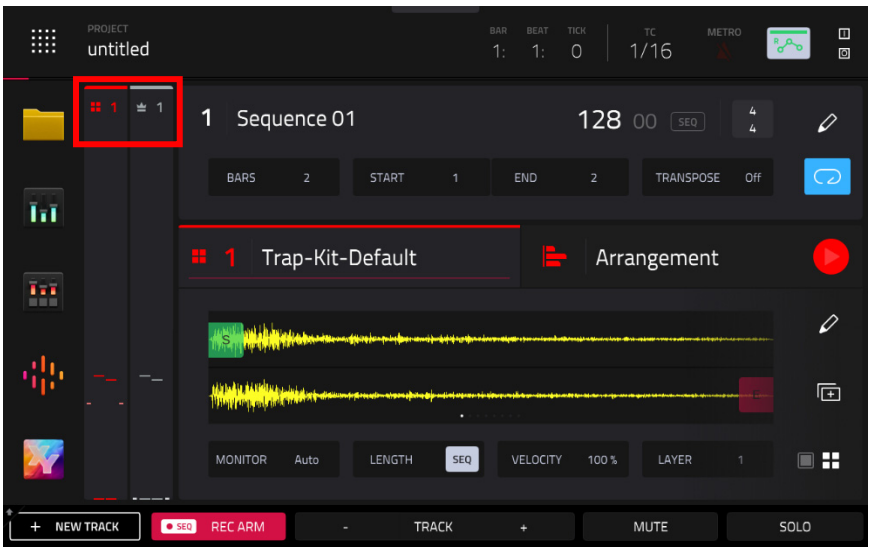
The following functions are available for **Audio** tracks only:

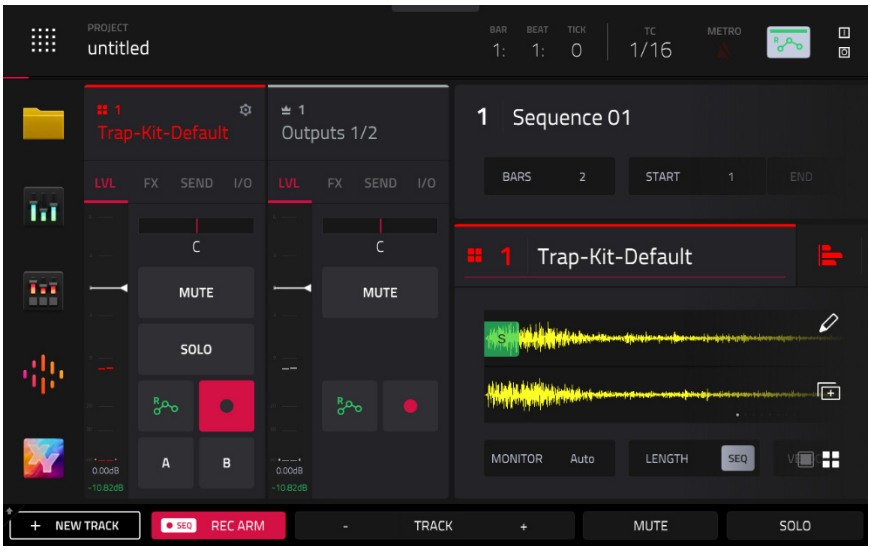
The **Flatten** and **Flatten Elastique** functions flatten the audio track when transport playback is stopped, rendering all the edits and regions within the arrangement to a single new audio file. The Elastique Pro algorithm can be used for time-stretching or pitch-shifting, providing higher-quality results with less artifacts than MPC's standard algorithm.

Mixer Strips

On the left edge of the screen, next to the five mode icons, are the *XL Channel Strips*, which allow you to effortlessly manage all your mixing tasks with access to important settings for the current pad, track, and main output.

To show or hide the mixer channel strips, tap the icons at the top of the condensed strips.



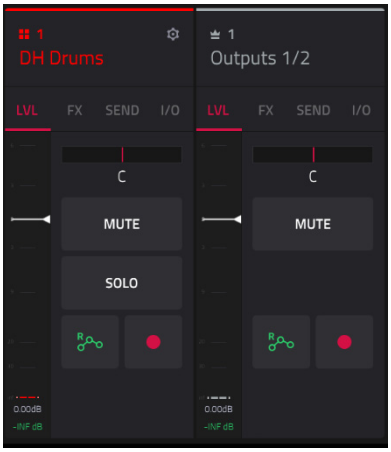


On the left side is the **track** or **pad** channel strip. When viewing a **Drum** track, you can tap the **single-pad / four-squares icons** in the bottom-right corner of the Track/Arrangement Section to cycle between track or pad mixer strips. When viewing a **Keygroup** track, tap the **single-pad / keyboard icons** in the same location to toggle between track or keygroup mixer strips.

The right side will dynamically adjust to display relevant information based on your actions. For example, selecting a send option in the left channel strip will prompt the right channel strip to show the corresponding return channel. When a track is shown on the left side, this will show the main output, and when a pad is shown on the left side, this will show the corresponding track. This allows for seamless access to audio routing options and streamlined navigation.

Both mixer channel strip types feature four views:

LVL: This view contains common mixer parameters.



The **Level** meter displays track volume and incoming MIDI. Use the **white line** to adjust the track level.

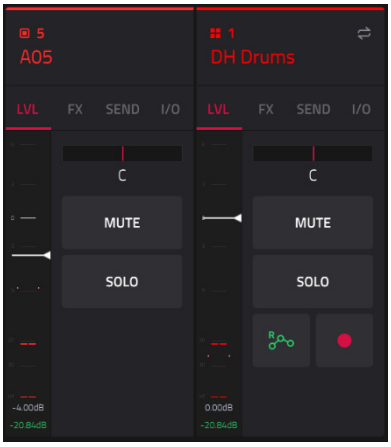
Use the **pan slider** to adjust the track panning.

Tap the **Mute** button to mute the track.

Tap the **Solo** button to solo the track, muting all other tracks. (Not shown for Main Output)

Tap the **Automation** button to toggle between the three automation states: **Read (R)**, **Write (W)**, and **Off**. (Not shown for Pad.)

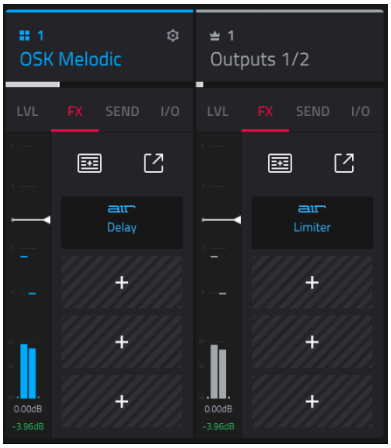
Tap the **Record** button to arm the sequence for recording. (Not shown for Pad or Main Output)



When viewing a Pad channel strip, the first field shows the current pad number. Press a pad or tap the field to select a different pad.

Tip: This is useful for mixing your pads without having to enter the ***Pad Mixer***.

FX: This view displays insert effects.



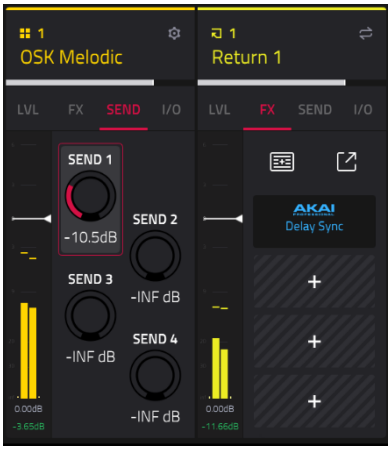
Tap the **FX Racks** icon to load an FX rack.

Tap the **expand window** icon to open the **Inserts** window, where you can load, change, and enable or disable the effects. Here, you can also easily rearrange insert effects using the arrow buttons to shift their order.

Tap an empty insert slot (indicated by a **+**) to open the plugin browser window.

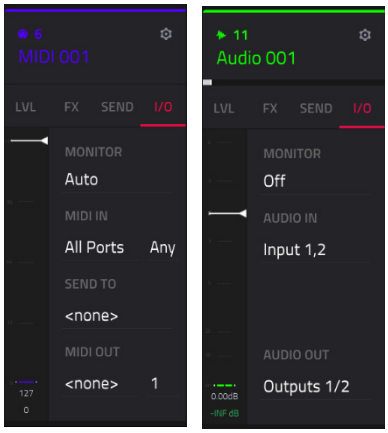
If an effect is loaded, tap the insert slot to open the plugin effect interface.

SEND: This view displays Sends 1–4. (Not shown for Main Output)



Use the **Send** knobs to adjust the send level. When a Send knob is adjusted, the associated **Return** track will be shown in the adjacent mixer strip.

I/O: This view displays routing options. (Not shown for Main Output)



Tap the **Monitor** button to change the monitor behavior for the track. When the track is being monitored, the meter on the left side will show the incoming audio level or MIDI velocity.

Use the **MIDI Input** and **Channel** fields to configure the MIDI input settings. (Not available for Audio tracks.)

Use the **Send To** field to send the track's MIDI output to another track. (Not available for Audio tracks.)

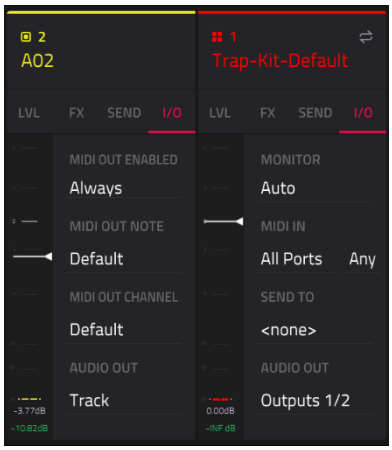
Use the **MIDI Output** and **Channel** fields to configure the MIDI output settings. (Not available for Audio tracks.)

Use the **Audio In** field to configure the input source of the external audio signal, which you can set to a pair of inputs (Input 1,2) or a single input (Input 1, Input 2). (Audio tracks only.)

Use the **Audio Out** field to configure where the track or pad is routed, which you can set to a submix (**Sub 1**–**8**), a pair of outputs (**Out 1,2**–**Out 3,4**), or a single output (**Out 1**–**4**). (Audio, Drum, and Plugin tracks only.)

Note: When set to a mono channel, the left and right channels are summed post-pan knob. If the pan knob is set to the center position, the left and right channels will be summed and padded. If the pan knob is set to the maximum left or right positions, only the respective channel will be sent to the output.

When viewing a Pad Channel strip, the following options are also available:



Use the **MIDI Out Enabled** field to determine when a MIDI note is sent to the MIDI Output. This can be used for triggering external gear, lighting, or video systems. Select **Never** (no MIDI note is sent), **Always** (MIDI note is sent every time the pad is triggered), or **When Empty** (MIDI note is only sent if the pad has no internal sample).

Use the **MIDI Out Note** to select the specific MIDI note to send for the selected pad.

Use the **MIDI Out Channel** to select the MIDI Channel where the output is sent.

Browser

The Browser lets you navigate your MPC hardware's internal and external hard disks to load samples, sequences, songs, etc. Using filter buttons and user-definable folders, you can easily adapt it to your preferred workflow. You can also audition (preview) your samples before loading them.

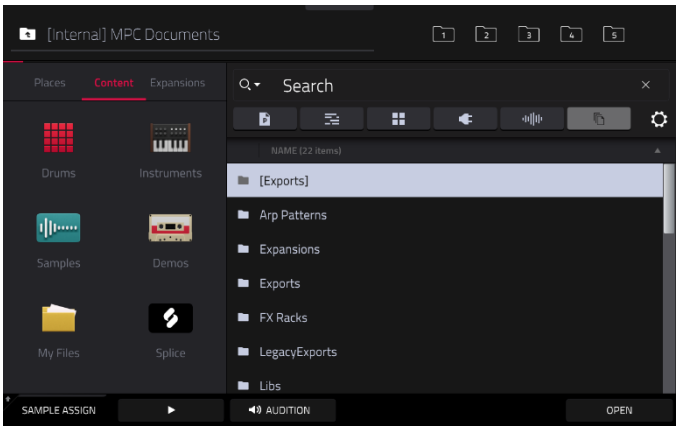
Important: You can install an additional SATA drive in your MPC X, MPC Live, MPC Live II, MPC Key 61, or MPC Key 37 hardware, allowing for even more storage space. See ***Appendix > SATA Drive Installation*** to learn more about this.

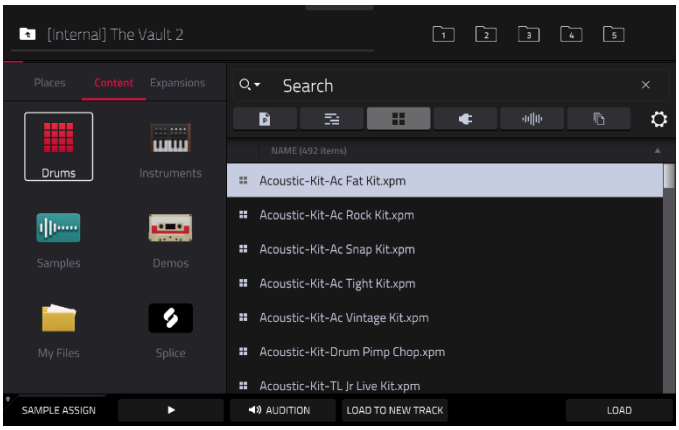
Important: MPC hardware supports read and write capability for **exFAT**, **FAT32**, **NTFS**, and **EXT4** file systems as well as read-only capability for **HFS+** file systems. We recommend using an exFAT file system as it is the most robust one supported by both Windows and macOS.

To show the Browser, do any of the following:

- Press **Menu** and then tap **Browser**.
- Press **Browse** (MPC X, MPC One), **Shift** and **Menu**/**Browse** (MPC Live, MPC Live II, MPC Key 61), or **Load** (MPC Key 37).

To view the project's sample pool and pads, tap **Sample Assign** in the lower-left corner. See the ***Sample Assign*** section to learn about this.





In the **Browser**, you can do any of the following:

Tap **Places** on the left side of the screen to browse your files by location.

Internal is the internal drive of your MPC hardware.

MPC Documents is a shortcut to the **MPC Documents** folder on the internal drive of your MPC hardware.

If you have storage devices connected to USB ports or SD card slot of your MPC hardware, they will appear in this column, as well.

Tap **Content** to browse your files by content, and then select the type of file: **Drums**, **Instruments**, **Samples**, **Demos**, or **My Files** (see ***below*** to learn about these content buttons).

Tap **Expansions** to browse your Expansions.

Tap the **folder/↰ icon** in the upper-left corner to move up one folder level.

To move through a list, do any of the following:

- Swipe up or down
- Turn the **data dial**
- Use the **–/+** buttons

Tap one of the file list headers to sort the list: **Name**, **Size**, **Date Modified** or **Date Created**. Tap the header again to change the sorting direction. These can be added or removed using the ***Browser Options*** window.

To select a file or folder, tap it.

To enter a folder, double-tap it or tap **Open** in the lower-right corner. You can also tap one of the **folder buttons** (**1**–**5**) in the upper-right corner to jump immediately to those pre-assigned file paths (see ***below*** to learn how to assign these file paths).

To load a selected file, double-tap it or tap **Load**. If the file is a sample, it will be loaded to the project's sample pool. If the file is a project, it will be loaded in its entirety (you will be asked if you want to close your current project).

To load all files in a folder, select the folder (so it is highlighted in the list), press and hold **Shift**, and then tap **Load All** in the lower-right corner.

Important: Although you can load multiple files at once, any samples you load into a project will be automatically converted to full-quality uncompressed audio files, so they may use more storage space than they do on your external storage device. If you are unable to load multiple files at once due to this, select fewer files and try again.

Press and hold **Shift** and then tap **Delete File** at the bottom of the screen to delete a selected file or folder.

Tap and hold **Play** (▶) at the bottom of the screen to preview a selected sound.

To adjust audition settings, tap the **Audition speaker icon** at the bottom of the screen. In the screen that appears:

Tap **Auto** to enable or disable automatic audition when a sound is selected.

Tap and drag the **level slider** up or down to set the audition volume level.

Tap **Sync** to enable or disable auditioning samples at the beginning of the next bar of the sequence when playback is active.

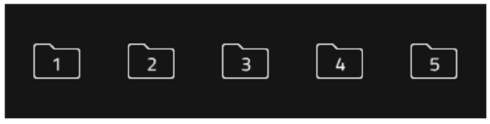
Tap **Warp** to enable or disable samples with an embedded tempo to be warped to the project tempo. Samples with no embedded tempo or externally-embedded tempo will not be affected by this setting.

Tap the **Audition icon** once more to hide the window.

To show the information for the current storage device, press and hold **Shift** and then tap **Drive Info** at the bottom of the screen. The drive's information will appear in a new window. Tap **OK** to return to the previous screen.

To format a storage device to use an exFAT file system, select it in the **Browser**, press and hold **Shift** and then tap **Format Drive** at the bottom of the screen. In the window that appears, tap **OK** and then **Format** in the next window to format the device, or tap **Cancel** to return to the previous screen without formatting. This formatting process will set the device to use the exFAT file system, remove any partitions from the drive, and erase all of its content. (Devices that are uninitialized or do not have a file system will not be recognized by the MPC hardware and consequently cannot be formatted.)

To get the most efficient use of the Browser, set the file paths to your favorite drive locations first. There are five **folder buttons** labeled **1**–**5** in the upper-right corner. You can set these to be shortcuts to five locations on your MPC hardware's internal drive and/or any connected storage devices, giving you quick access to your files.



To assign the current location to a folder button, press and hold **Shift**, and then tap one of the **folder buttons** (**1**–**5**). Now, when you tap that folder button again, the Browser will show that folder's content immediately.

Use the six filter buttons to show only specific types of files in the list below. Folders will still be shown in the list.

Tap the **P/page icon** to show project files only.

Tap the **bars icon** to show pattern files only.

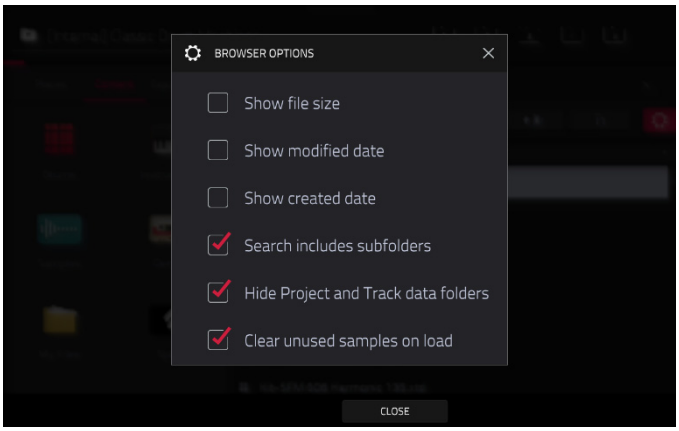
Tap the **four-squares icon** to show kit files only.

Tap the **plug icon** to show plugin preset files only.

Tap the **waveform icon** to show sample files only.

Tap the **three-pages icon** to show all file types.

Tap the **gear icon** to open the Browser Options window:



Check the **Show file size** box to display file size in the file list.

Check the **Show modified date** box to show the last date the file was modified in the file list.

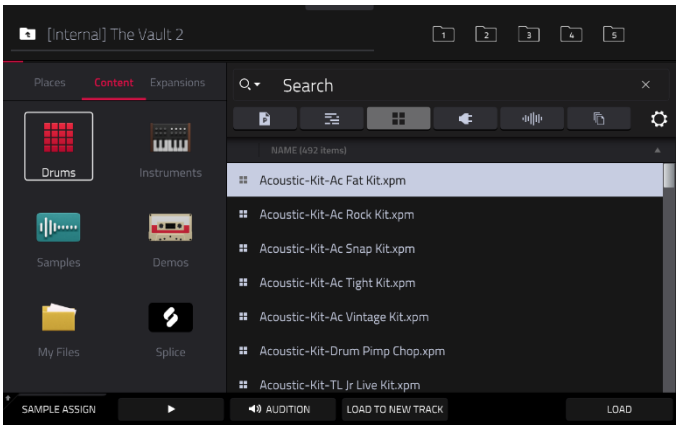
Check the **Show created date** to show the date the file was created in the file list.

Check the **Search includes subfolders** box to enable recursive searching. When enabled, all files, including those in subfolders, will be appear in the search.

Check the **Hide Project and Track data folders** box to disable project and track folders from appearing in the file list.

Check the **Clear unused samples on load** box to remove samples that are not in use when loading a sample, track, or program over an existing one.

Use the five **Content** buttons to show specific locations in the internal drive of your MPC hardware and filter them automatically by file type:



Drums: Tap this button to enter the **Expansions/The Vault 2** folder on the internal drive, viewing **program** files only.

Instruments: Tap this button to enter the **Expansions/ Instruments** folder on the internal drive, viewing **program** files only.

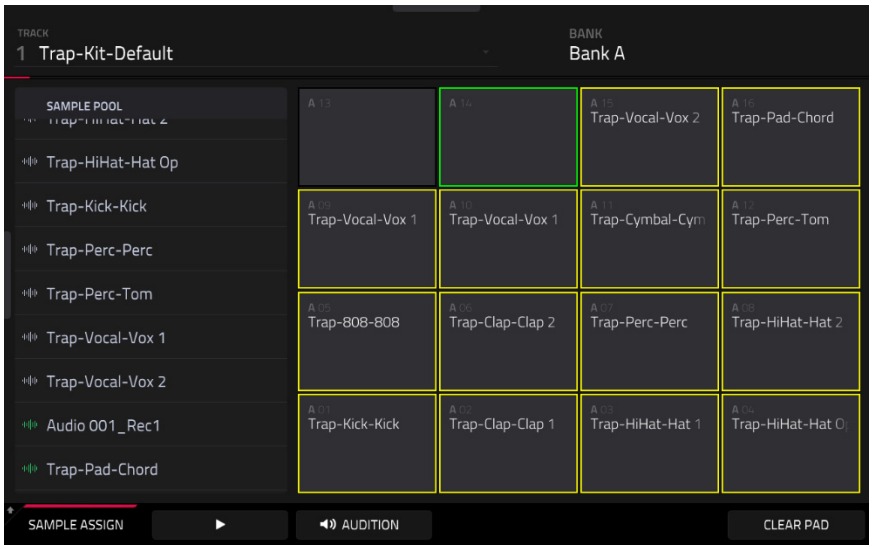
Samples: Tap this button to enter the **Expansions/The Vault 2** folder on the internal drive, viewing **sample** files only.

Demos: Tap this button to enter the **Demos** folder on the internal drive, viewing **project** files only.

My Files: Tap this button to enter the **MPC Documents** folder, viewing **all** files.

Splice: Tap this button to view samples synced from a paired Splice account. See ***Operation > Menu > Preferences > Splice*** for more information.

Sample Assign



When the **Sample Assign** tab is selected, you can do any of the following:

Double-tap the **Track** field at the top of the screen to select a track in the project. In the list that appears, tap the desired track. Alternatively, tap the **Track** field and then use the **data dial** or the **–/+** buttons to select a location.

To move through the sample pool, swipe up or down, turn the **data dial**, or use the **–/+** buttons.

Tap and hold **Play** (▶) at the bottom of the screen to preview a selected sound.

Tap **Audition** at the bottom of the screen to enable or disable the audition function and set its volume level. In the screen that appears, tap **Auto** to enable or disable it, and tap and drag the **level slider** up or down to set the volume level. Tap **Audition** once more to hide the window.

To assign a sample to a pad, press it or tap it on the screen so it lights **green**. Then, in the **Sample Pool** list, double-tap the desired sample. Alternatively, use the **data dial** or **–/+** buttons to select a sample, and press the **data dial**, or press the **center cursor** or **Enter** (MPC X), to assign it. You can also tap and drag from the sample name to the desired pad. Hold **Shift** while tapping and dragging to move the sample to a specific layer on the pad, indicated by the red bar.

To clear a sample from a pad, press it or tap it on the screen so it lights **green**. Then, tap **Clear Pad** at the bottom of the screen.

Tap and hold on a sample name in the Sample Pool to display the following additional options:

Tap **Delete Sample** to remove the sample from the Sample Pool.

If a sample is loaded to memory, tap **Stream From Disk** to remove it from memory and stream it from a disk drive. Disk streaming samples will be marked with a green waveform icon.

If a sample is streaming from disk, tap **Load To Memory** to disable streaming the sample from a disk drive and return it to memory. Samples loaded to memory will be marked with a grey waveform icon.

Note: Disk streaming relies on the performance of the disk you are streaming from. For best operation, it is recommended to use an SSD (solid-state drive) connected to your MPC's internal SATA port (if available). Once you have saved a project to your SSD, your files will stream from that location. For an unsaved project, MPC uses a temporary file location from which to stream audio files. Go to **Menu > Preferences > Project Load/Save** and set the **Temporary File Location** to your SSD for best results.

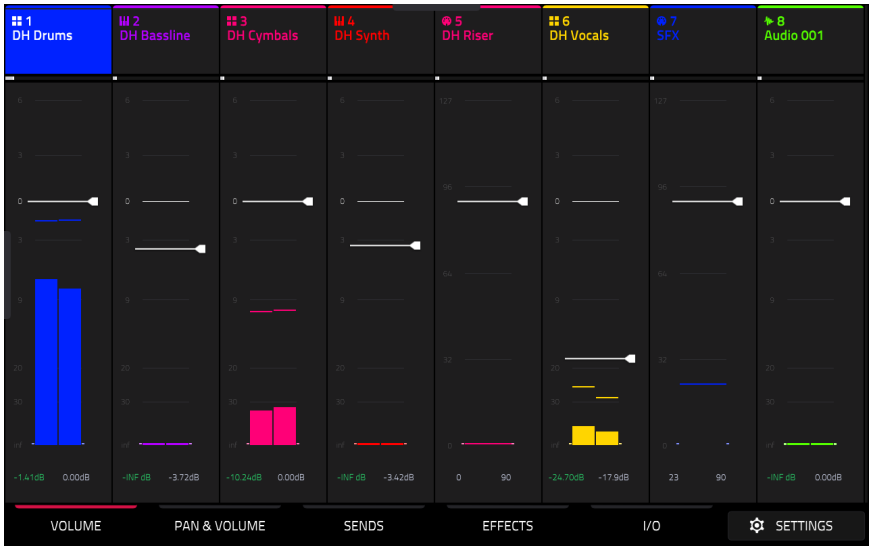
To return to the main Browser window, tap **Sample Assign** again.

Channel Mixer

In the Channel Mixer, you can set levels, stereo panning, and other settings for your tracks, submixes, returns and main outputs.

To open the Channel Mixer, do either of the following:

- Press **Menu**, and then tap **Channel Mixer**.
- Press **Mixer**.



The Channel Mixer works like an audio mixer with various settings for each track, with up to 8 tracks shown on the display at once. The name of the track is displayed at the top of each one.

Tap a track header to select it.

Drag your finger left or right on the display to view more tracks.

Quickly swipe your finger to the left on the display to view the Submixes, Returns, and Outputs.

Tap the **Settings** icon in the lower-right corner of the screen to open the Mixer configuration to edit the following settings:

Use the **Solo Button** field to set the behavior of the solo buttons. They can be used to either **Solo Tracks** or **Cue Tracks**.

Use the **Crossfader** field to set the **Profile** of the crossfader, either **Linear**, **Exponential** or **Logarithmic**.

Use the **MIDI Track Input Metering** fields to adjust how MIDI inputs are displayed in the Channel Mixer.

The **Meter** field determines when the MIDI Input meter is active: **Always**, **When Record Armed**, **When Record Armed or Monitoring**, or **Never**.

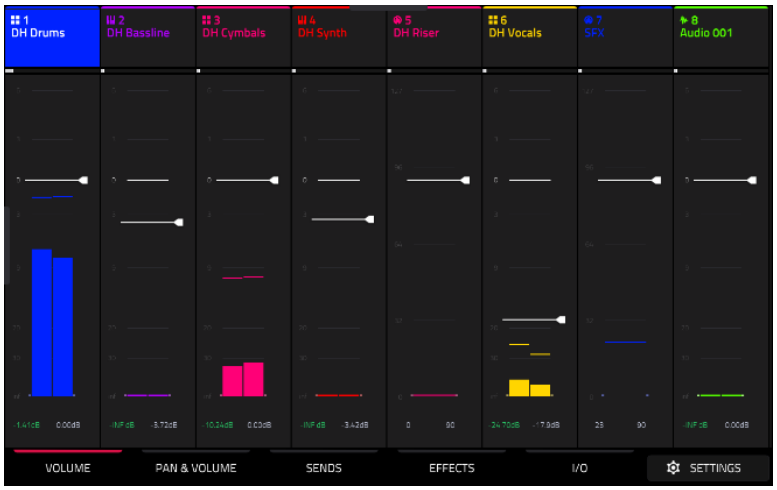
The **Meter** field determines what MIDI data is shown with the meters: **User Input** or **User Input and Playback**.

Use the **Audio Track Input Metering** field to determine when the Audio Track meter is active: **Always**, **When Record Armed**, **When Record Armed or Monitoring**, or **Never**.

Double-tap the track headers to open the **Track Settings** window.

Volume

The **Volume** tab gives you an overview of the volume level of your tracks.



Tap and drag a **level slider** to adjust the volume level.

The level sliders and meters in each pad show a visual representation of the level. Double-tap a **track** on the screen to open a large version of the level slider and meter.

Pan & Volume

The **Pan & Volume** tab gives you a number of mixing options for your tracks.

Use the **M** and **S** buttons to mute and solo the track. When **Cue Tracks** is enabled, the **S** button will become a **Headphones** button.

Use the **automation button** to set the ***Automation*** status of the track.

Use the **record button** to arm the track for recording.

The **pan sliders** in each track show a visual representation of the pan. Tap and drag the pan slider to adjust the panning of the currently selected track, return or main output. Double-tap a pan slider on the screen to open a large version of the slider.

Tap and drag a **level slider** to adjust the volume level of the currently selected track, return or main output. Double-tap a level slider on the screen to open a large version of the slider.

Sends

The **Sends** tab gives you an overview of the **Sends 1–4** level of your tracks.

Use the **M** and **S** buttons to mute and solo the track. When **Cue Tracks** is enabled, the **S** button will become a **Headphones** button.

Use the **automation button** to set the ***Automation*** status of the track.

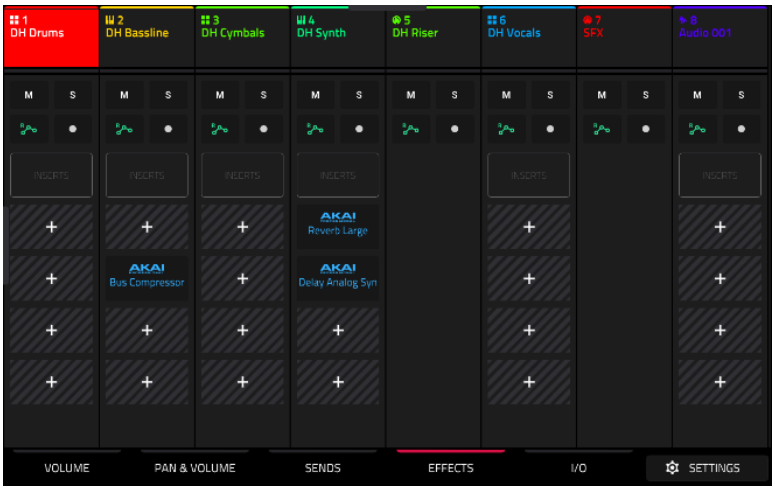
Use the **record button** to arm the track for recording.

Use the **send knobs** to adjust the send level of tracks.

Important: When using send channels, make sure you have already loaded at least one effect to it using the return mixer. Swipe left to view the Return channels and then select the **Effects** tab, described ***below***.

Effects

The **Effects** tab lets you view and edit insert effects for your tracks.



Use the **M** and **S** buttons to mute and solo the track. When **Cue Tracks** is enabled, the **S** button will become a **Headphones** button.

Use the **automation button** to set the ***Automation*** status of the track.

Use the **record button** to arm the track for recording.

Tap the **Inserts** button to open the Inserts window.

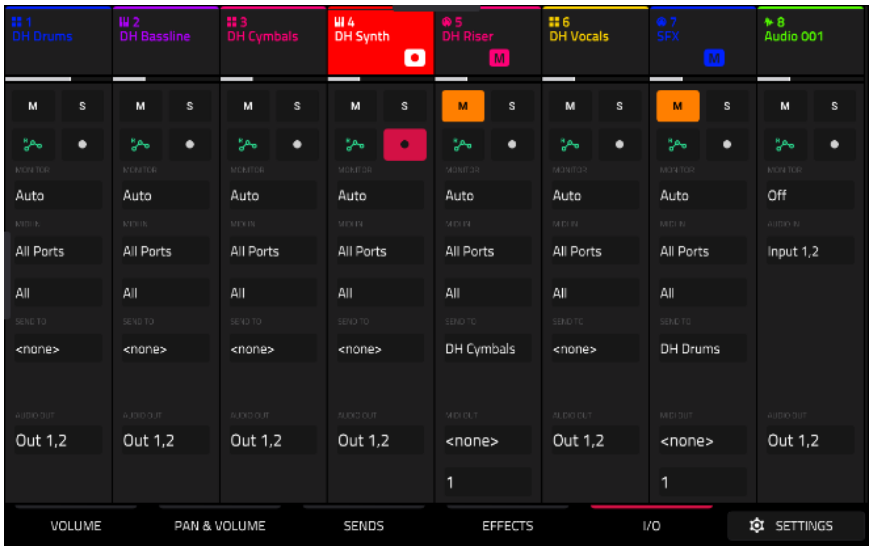
Use the four **insert** fields to add insert effects to the track. Empty insert slots will show a **+** icon. Inserts with a loaded effect will show the name of the effect.

> **To learn how to use insert effects**, please see ***General Features*** > ***Effects*** > ***Insert Effects***.

Swipe left while viewing the Effects tab to view the Return and Output Insert effects slots.

I/O

The **I/O** tab lets you view and edit audio and MIDI routing for your tracks.



Use the **M** and **S** buttons to mute and solo the track. When **Cue Tracks** is enabled, the **S** button will become a **Headphones** button.

Use the **automation button** to set the ***Automation*** status of the track.

Use the **record button** to arm the track for recording.

Tap the **Monitor** button to set the monitoring behavior.

For Audio tracks:

Off: The track's audio input is not monitored.

In: The track's audio input is monitored whether the track is record-enabled or not.

Auto: The track's audio input is monitored while the track is record-enabled only.

For MIDI tracks:

Off: The track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.

In: The track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

Auto: The track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.

Merge: The track's MIDI input is always monitored, and playback of recorded events will be heard.

Use the **Input** fields to select the input routing for the track.

For Audio tracks:

Use the **Audio In** field to configure the input source of the external audio signal, which you can set to a pair of inputs (Input 1,2) or a single input (Input 1, Input 2).

For MIDI tracks:

Use the **MIDI Input** and **Channel** fields to configure the MIDI input settings.

Use the **Send To** field to send the track's MIDI output to another track.

Use the **Output** field to set the output routing for the track.

For Audio tracks:

Use the **Audio Out** field to configure where the track is routed, which you can set to a submix (Sub 1–8), a pair of outputs (Out 1,2–Out 3,4), or a single output (Out 1–4).

For MIDI tracks:

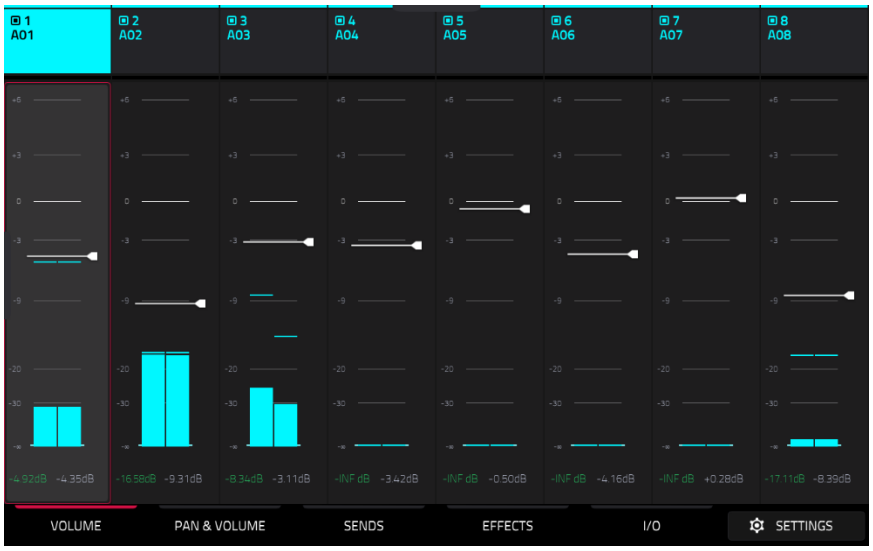
Use the **MIDI Output** and **Channel** fields to configure the MIDI output settings.

Pad Mixer

In the Pad Mixer, you can set levels, stereo panning, and other settings for individual pads. This mode is only available for Drum and Keygroup tracks.

To open the Pad Mixer, do either of the following:

- Press **Menu**, and then tap **Pad Mixer**.
- Press and hold **Shift** and press **Mixer**.



Just like the Channel Mixer, the Pad Mixer works like an audio mixer with various settings for each pad, with up to 8 pads shown on the display at once. The name of the pad is displayed at the top of each one.

To select a pad, tap it on your MPC hardware, or tap the channel strip header.

To view more pads, drag your finger left and right on the display.

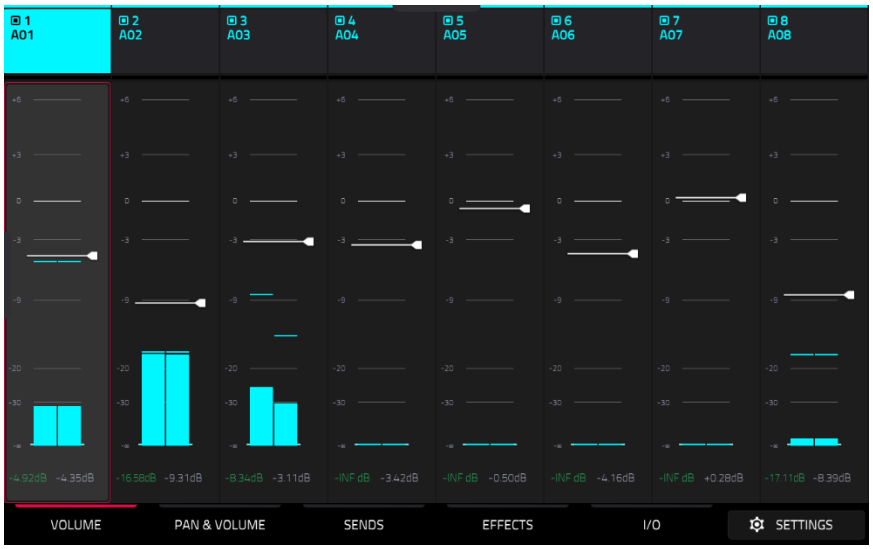
Tap the **Settings** icon in the lower-right corner of the screen to open the Pad Mixer configuration to edit the following settings:

Check the **Filter by events** box to show only pads with events.

Check the **Filter by samples** box to show only pads with samples assigned.

Check the **Write automation when recording** box to set automation to always write when recording.

Volume



The **Volume** tab gives you an overview of the volume level of your pads.

Tap and drag the **level slider** to adjust the volume level of the currently selected pad.

The level sliders and meters in each pad show a visual representation of the level. Double-tap a **track** on the screen to open a large version of the level slider and meter.

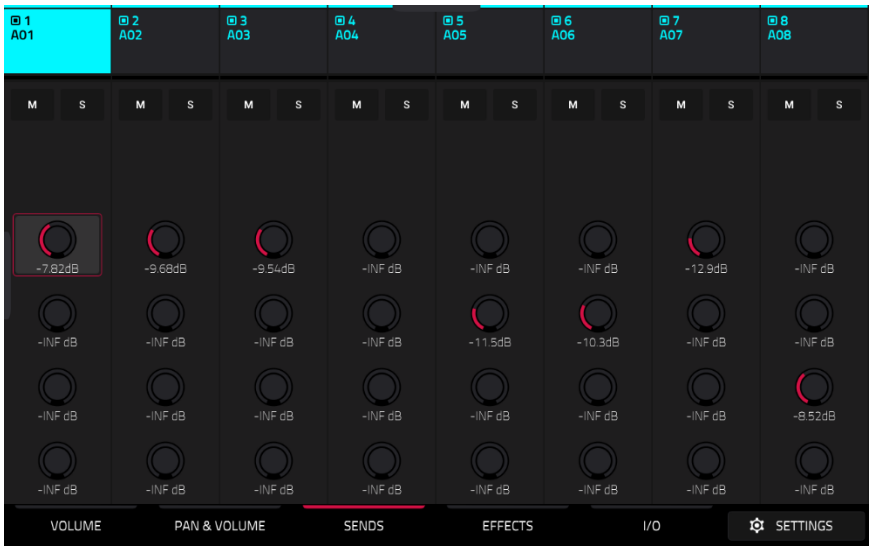
Pan & Volume

Use the **M** and **S** buttons to mute and solo the pad.

The **pan sliders** in each track show a visual representation of the pan. Tap and drag the pan slider to adjust the panning of the currently selected pad.

Tap and drag the **level slider** to adjust the volume of the currently selected pad.

Sends

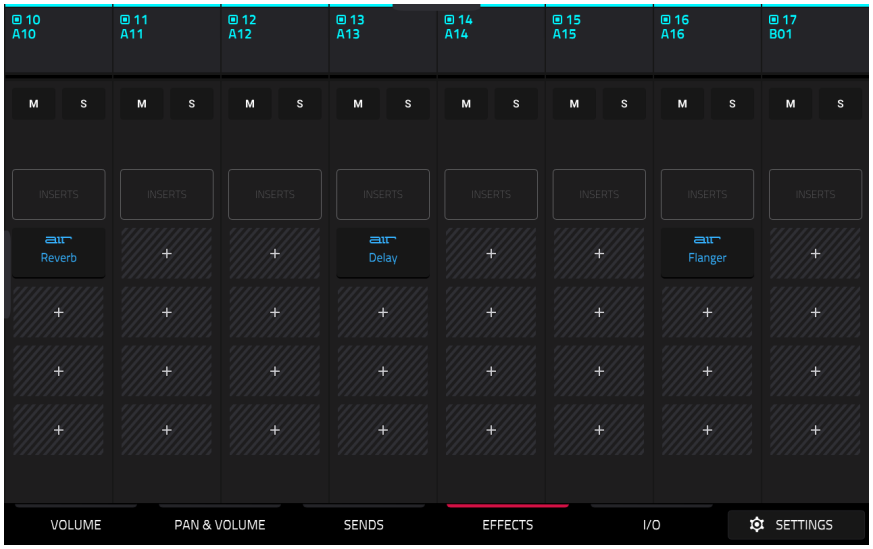


Use the **M** and **S** buttons to mute and solo the pad.

Use the **send knobs** to adjust the send level of the pads.

Important: When using send channels, make sure you have already loaded at least one effect to it using the return mixer.

Effects



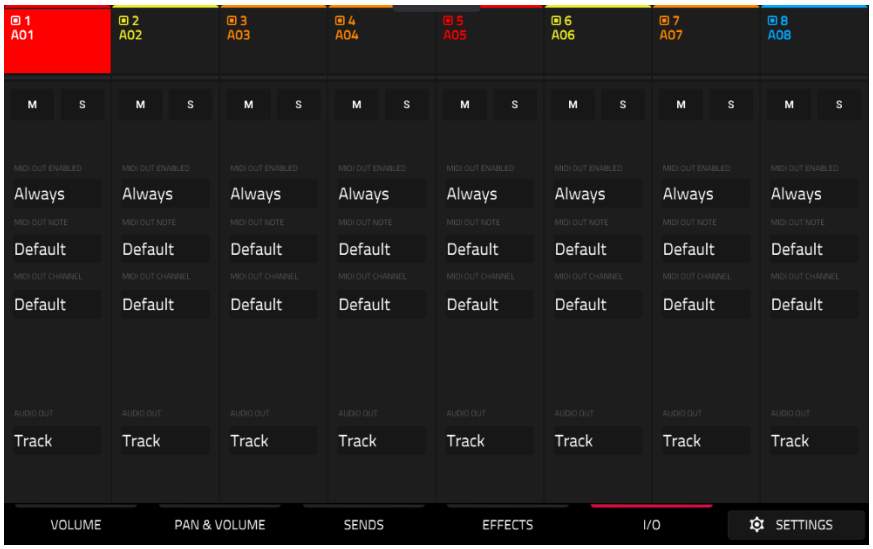
Use the **M** and **S** buttons to mute and solo the pad.

Tap the **Inserts** button to open the Inserts window.

Use the four **insert** fields to add insert effects to the pad. Empty insert slots will show a **+** icon. Inserts with a loaded effect will show the name of the effect.

To learn how to use insert effects, please see ***General Features*** > ***Effects*** > ***Insert Effects***.

I/O



Use the **M** and **S** buttons to mute and solo the pad.

Use the **MIDI Out Enabled** field to determine when a MIDI note is sent to the MIDI Output. This can be used for triggering external gear, lighting, or video systems. Select **Never** (no MIDI note is sent), **Always** (MIDI note is sent every time the pad is triggered), or **When Empty** (MIDI note is only sent if the pad has no internal sample).

Use the **MIDI Out Note** to select the specific MIDI note to send for the selected pad.

Use the **MIDI Out Channel** to select the MIDI Channel where the output is sent.

Use the **Audio Out** field to set the output routing for the pad. Select **Track** to output the pad to the track, or send it directly to one of the outputs.

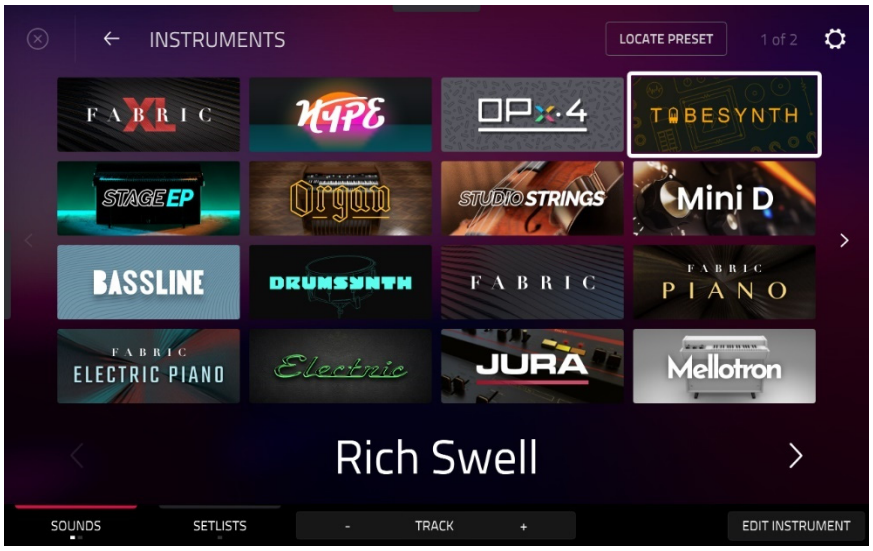
Sounds Mode

Sounds Mode allows you to easily browse plugin instruments, save favorite presets, and build setlists to quickly recall projects for live performances.

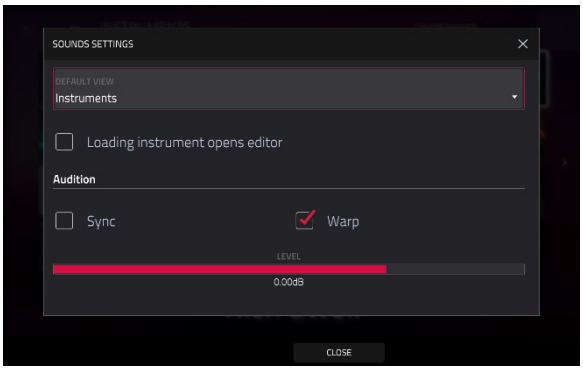
To enter Sounds Mode, do either of the following:

- Press **Menu**, and then tap **Sounds**.
- Press the **Sounds** button (MPC Key 61, MPC Key 37).

When viewing either the Sounds or Favorites menu, you can swap to the other menu by tapping the first tab at the bottom of the touchscreen.



Tap the **gear icon** at the top of the screen to open the Sounds menu settings.



Use the **Default View** field to set Sounds mode to open viewing **Instruments** or the **Current Preset** by default.

Check the **Loading instrument opens editor** box to enable opening ***Track Edit Mode*** when loading an instrument.

Use the **Audition** fields to determine how samples are auditioned.

Tap **Sync** to enable or disable auditioning samples at the beginning of the next bar of the sequence when playback is active.

Tap **Warp** to enable or disable samples with an embedded tempo to be warped to the project tempo. Samples with no embedded tempo or externally-embedded tempo will not be affected by this setting.

Tap and drag the **level slider** up or down to set the audition volume level.

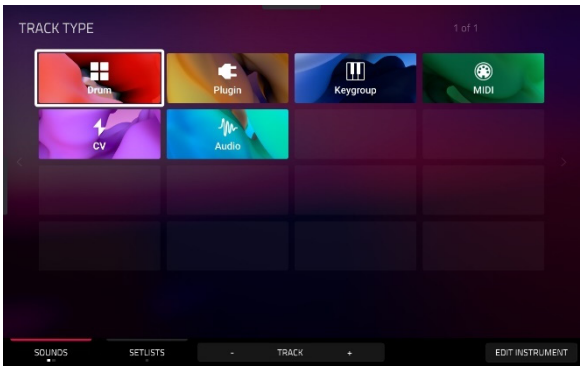
Tap **Locate Preset** at the top of the touchscreen to open the preset list for the currently selected plugin instrument.

Tap **Edit Instrument** at the bottom of the touchscreen to open ***Track Edit Mode*** to adjust the instrument parameters.

Tap **Track -/+** at the bottom of the touchscreen to switch to another track.

Tap the ← **Instruments** button to select another track type to search for using the Sounds interface. You can search for **Drum**, **Plugin**, **Keygroup**, **MIDI**, **CV**, and **Audio** track types in any factory expansions or user expansions on any attached drives. When browsing an expansion or user folder, tap a cell to load the selected program.

When searching for non-Plugin tracks, you can also tap and hold on an empty space to set a preferred folder location for your saved tracks.



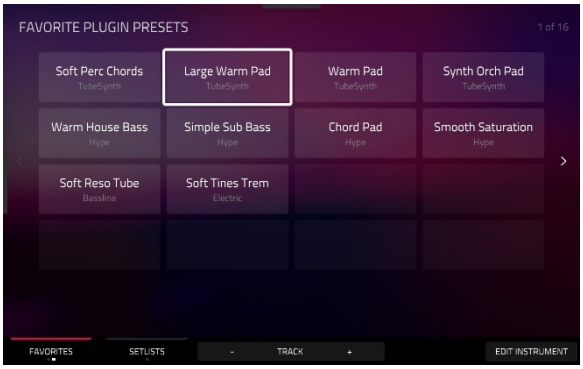
When viewing **Drum** and **Keygroup** track samples, tap the **headphones** icon to enable auditioning. Once enabled, tap and hold on a cell's **play icon** to audition the selected sound.

Favorites

When viewing the Sounds menu, tap the **Sounds** tab at the bottom of the screen to switch to the Favorites screen, where you can save, load, and organize your most-used presets. On MPC Key 61 and MPC Key 37, you can also press and hold **Shift** and press the **Sounds** button.

To save a preset as a favorite:

1. Select the desired plugin and preset using the Sounds menu.
2. Open the Favorites menu by tapping the bottom-left tab in the Sounds menu.
3. Press and hold on an empty Favorites slot to save the preset in the selected slot.



To edit an existing Favorite slot, tap and hold on a filled Favorite slot. In the menu that appears:

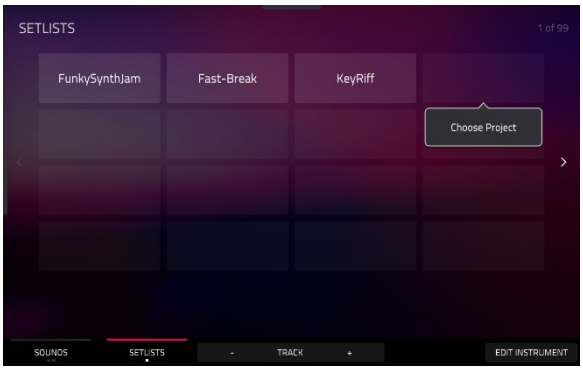
- Tap **Clear** to clear the slot.
- Tap **Overwrite** to replace the favorite with the currently selected preset.

Setlists

Use the Setlists tab to create a list of projects to easily recall, such as for a live performance.

To create a Setlist:

1. Open the Setlist tab from the Sounds page.
2. Tap and hold on an empty Setlist slot, and then tap **Choose Project**.
3. In the file browser that appears, locate the project you would like to add and then tap **Select** to load it.



To edit an existing Setlist slot, tap and hold on a filled slot. In the menu that appears:

- Tap **Choose Project** to select a different project for the same slot.
- Tap **Clear** to empty the selected slot.
- Tap **Copy** to copy the project to another slot. Then, tap and hold on an empty slot and tap **Paste**.

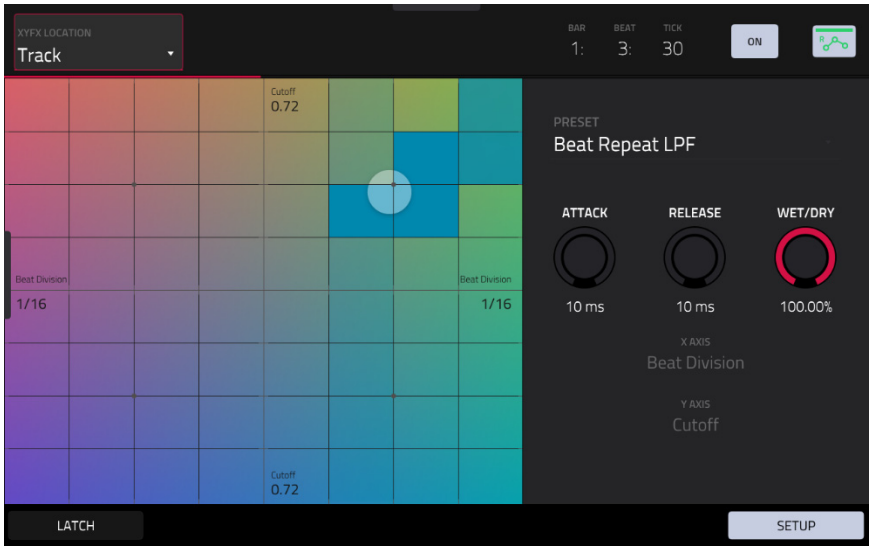
XYFX Mode

XYFX Mode turns the touchscreen into an XY pad where each axis represents the range of an effect parameter. As you move your finger on the XY pad, the current position will determine the current value of the two parameters. You can use this mode to create interesting effect automation on your tracks.

The effect you control in XYFX Mode acts like an insert effect on that track. In fact, **XYFX** is the name of the insert effect you have to load to the track before you can use this mode. Learn more about this in ***General Features*** > ***Effects***.

To enter XYFX Mode, do either of the following:

- Press **Menu**, and then tap **XYFX**.
- Press **XYFX** (MPC X), **Shift** and **Next Seq/XYFX** (MPC Live II, MPC One), or **Shift** and **Edit/XYFX** (MPC Key 61, MPC Key 37).



When you first enter this mode in a project, you may be prompted to load XYFX to the track. Tap **Insert XYFX** to do this.

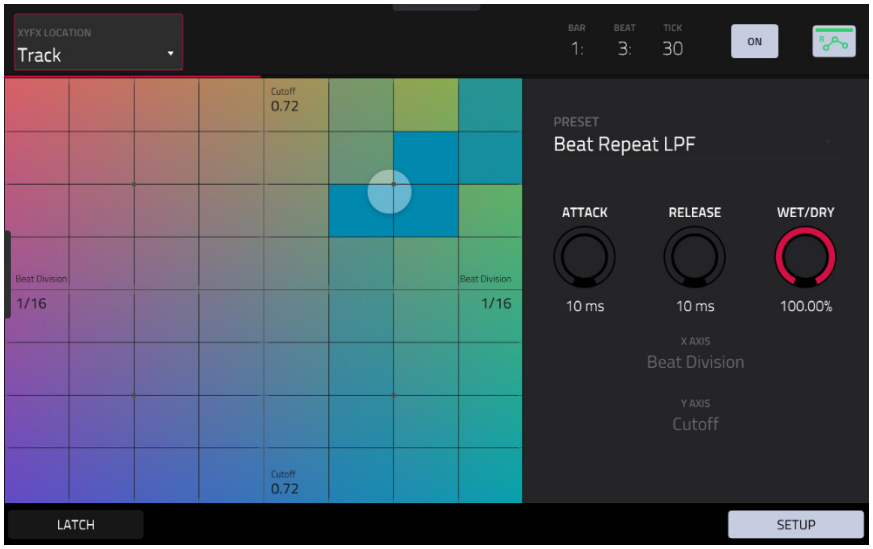
Note: If you already have four insert effects loaded, you will need to clear one of the insert effect slots before doing this.

Use the **XYFX Location** field to select the signal to which the effects will be applied: the current track (**Track**) or a main output (a stereo pair of channels: **Output 1/2** or **Output 3/4**).

Touch or move your finger on the gridded part of the screen. A marker will follow your finger to indicate the current position. The X axis is the horizontal axis, increasing in value as you move right. The Y axis is the vertical axis, increasing in value as you move up. Each axis is labeled with its assigned parameter.

When an effect has a beat division parameter, the current division will be highlighted as an entire column.

Effects are differently colored for easy visual distinction: beat-synchronized effects are **blue**, while manually controlled effects are **green**.

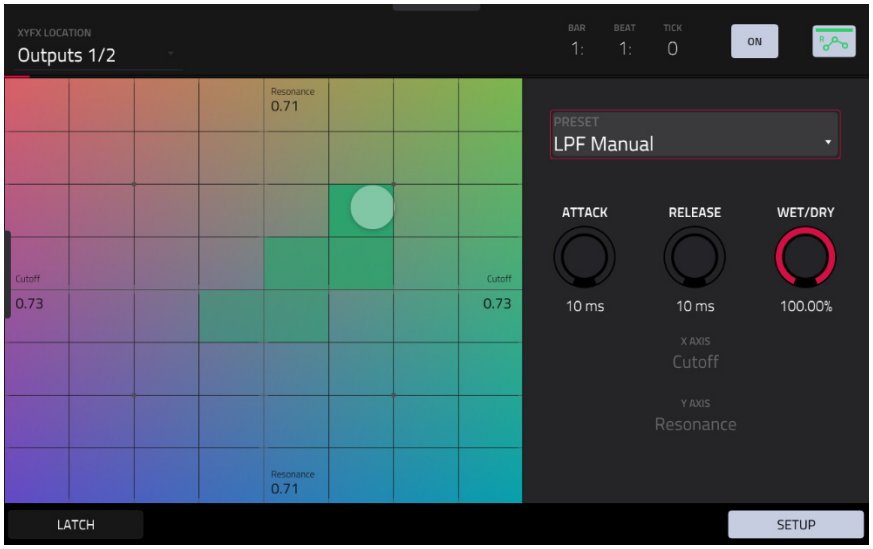


XY Mode with a beat-synchronized effect.

While touching the **XY pad**, tap **Latch** in the lower-left corner to keep the marker on the XY pad even after you release it. The marker will remain there until you touch another part of the XY pad or until you tap **Latch** again.

Use the **Setup** button to show or hide the Setup panel, which controls how the XY pad behaves.

Use the **Preset** field to select the effect you want to use in XYFX Mode.



XY Mode with a manually controlled effect.

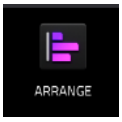
Use the **Attack** knob to set the length of the attack phase of the envelope, which is triggered when you touch the XY pad. In other words, this determines how long it takes the effect to fully respond to your touch.

Use the **Release** knob to set the length of the release phase of the envelope, which is triggered when you release the XY pad. In other words, this determines how long it takes the effect to fully deactivate after you stop touching the XY pad.

Use the **Wet/Dry** knob to set the blend the original signal (dry) and the effect signal (wet).

The **X Axis** and **Y Axis** fields show which parameters are controlled by each axis. This varies depending on the effect you are using.

Arrange Mode

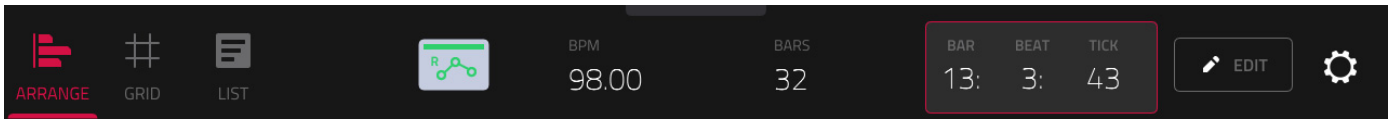


Arrange Mode is a fully-featured linear sequencer where you can record a performance or live input (MIDI or audio) into a linear timeline to create an arrangement of a song. You can use the powerful Arrange Edit commands to edit and arrange your song and then mix it down to a stereo audio file, or stem it as separate tracks.

To enter Arrange Mode, do either of the following:

- Press **Menu** and then tap **Arrange**.

The event editor's Arrange, Grid, and List views are displayed as tabs in the top left of the screen to make it easy to jump between them.



The toolbar at the top of Arrange Mode lets you switch between the different edit modes as well as showing project and timing information.

Use the **Arrange**, **Grid**, and **List** icons to switch between the different modes.

Tap the **automation icon** to toggle between **Read** and **Write**. To disable or enable global automation entirely, press and hold **Shift** and tap this icon.

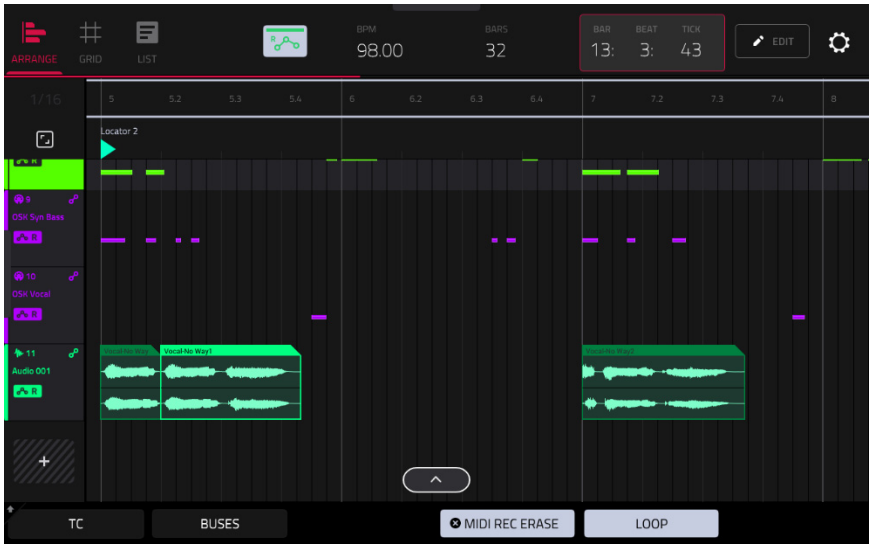
Use the **BPM** field to adjust the tempo of the project.

Use the **Bars** field to set the length of the arrangement.

The time counter at the top of the screen indicates the current playhead position. Double-tap this field to open the ***Locate Window***.

Tap the **pencil Edit** icon to open the **Sequence Edit** window (see ***Editing Arrangements***).

Tap the **gear icon** to open the ***Grid Settings***.



The project's tracks are displayed in Arrange Mode on a linear timeline.

Tap a track to select it.

You can also press and hold **Main** and a window will appear showing all tracks in your project in a four-by-four layout, mirroring your MPC pads. Tap a track in the window to select, or press the respective pad on your hardware.

From this window, you can also tap **Tracks**, **Submixes**, **Returns**, and **Outputs** to display the selected track types in the window.

Each track header will show **Record Arm**, **Mute**, **Solo**, and **Track Automation** states. Note that this requires the vertical zoom to be adjusted so there is enough space to show all components. Use the pinch and expand gestures to change the zoom level of the arrangement.

Tap **TC** at the bottom of the screen to open the ***Timing Correct (TC)*** window. Alternatively, tap the timing correct value shown above the track headers.

Tap **Buses** to view Submix, Return, and Output bus tracks. You can then record, edit, and view automation data on these tracks in your Arrangement the same way you can with other tracks.

Tap the **MIDI Rec Erase** button to enable or disable MIDI record erasing in Arrange Mode. When enabled, the new recording will replace existing MIDI data in the arrangement. When disabled, recording MIDI will overdub on existing MIDI data in the track arrangement.

Tap **Loop** to enable or disable loop. The loop region is always displayed, regardless of whether Loop is on or off.

The Arrangement timeline also features six user-controllable Locate markers. Press and hold **Shift** to show the six Locator buttons at the bottom of the screen.

To add a locator at the playhead position, tap one of the six Locator buttons. You can also use the ***Locate*** window to edit these markers.

Recording Arrangements

To record into the arrangement timeline:

1. In **Main Mode**, tap the **Rec Arm** function button to arm the selected track for recording. Alternatively, double-tap the track header in Arrange Mode and then set the **Rec Arm** field to **On**.
2. Press the **Rec** button on your hardware to arm it for recording.
3. Next, enter Arrange mode by pressing **Menu** and tapping **Arrange**. You can also view the arrangement directly from **Main Mode** by opening the **Arrangement** header.
4. Press **Play** on your hardware to begin recording. As you record, Arrange Mode will draw regions containing audio or MIDI data into the track lanes.

To replace a section of the arrangement with a new performance:

1. Tap the **Loop** button at the bottom of the screen to activate loop.
2. Set the **Loop Start** and **Loop End** points by tapping and dragging the beginning and end of the loop region in the timeline. Tapping and dragging in the middle of the loop region moves both the Loop Start and Loop End points at the same time.
3. Enable arrangement recording by following the directions above.
4. Press **Play** to begin recording. The recording will begin at the Loop Start point, and once it reaches the Loop End Point, will switch to Overdubbing mode.

You can also use the **Auto Record** and **Punch In/Punch Out** functions of the ***Arrangement Section*** of Main Mode to easily replace part of a recording.

To play the arrangement:

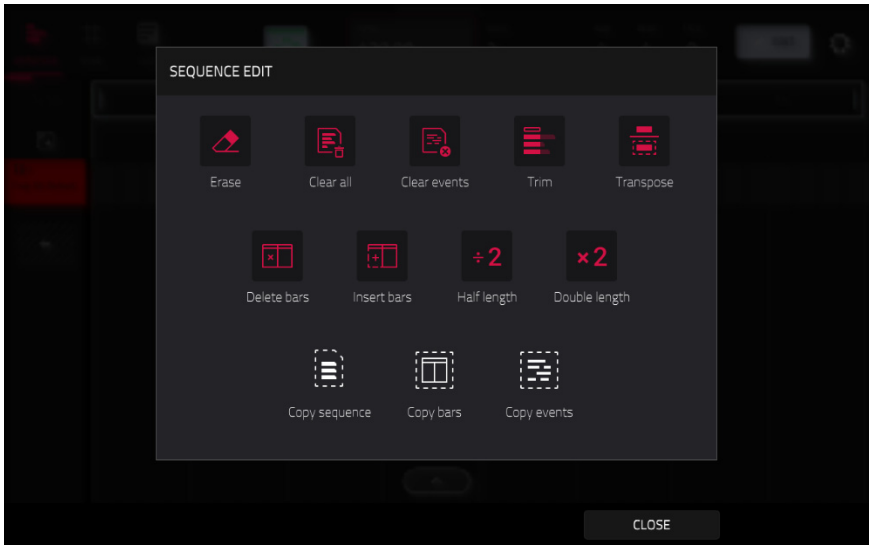
- Press **Play Start** to begin playback of the arrangement from 1:1:00, or if **Loop** is activated, from the Loop Start.
- Press **Play** to begin playback from the current playhead position.

To move the playhead position, tap the **Playhead Position** field in the toolbar to select it, and then use the **data dial** or **-/+** buttons to adjust the value. Alternatively, you can set the playhead position by tapping in the lower-half of the timeline.

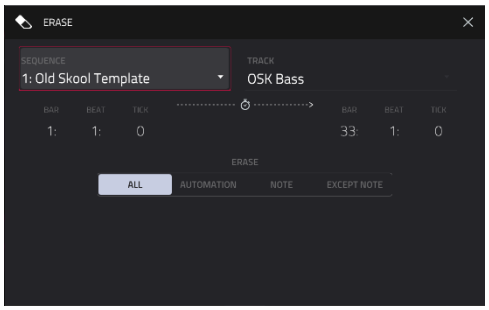
Editing Arrangements

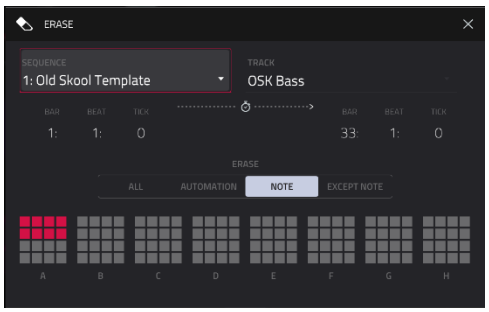
You can edit your linear arrangement using MPC's powerful Sequence Edit commands.

To edit an arrangement, tap the **pencil icon** in the Arrange Mode toolbar to open the Sequence Edit window, and then select one of the following tools.



The **Erase** function erases all or part of the sequence.





Use the **Track** field to select the track you want to erase within the sequence.

Use the **Bar**, **Beat**, and **Tick** fields to set the time range of the sequence you want to erase. The left fields set the start of the time range, and the right fields set the end of the time range.

To select what types of events you erase, select one of the **Erase** options:

All erases all pad events from the designated time range and reset all of its settings.

Automation erases only automation from the designated time range. Use the **Parameter** field to select what type of automation is erased.

Note erases notes from the selected pads in the designated time range. Use your MPC hardware pads to select or deselect pads.

Except Note erases all notes except those selected in the designated time range. Use your MPC hardware pads to select or deselect pads to be exempted from deletion.

Tap **Do It** to confirm your choice, or tap the **X**, **Cancel**, or anywhere outside the window to cancel and return to the previous screen.

The **Clear All** function erases **all** events from the sequence and resets **all** of its settings.

Tap **Clear All** to confirm your choice.

Tap **Cancel** to return to the previous screen.

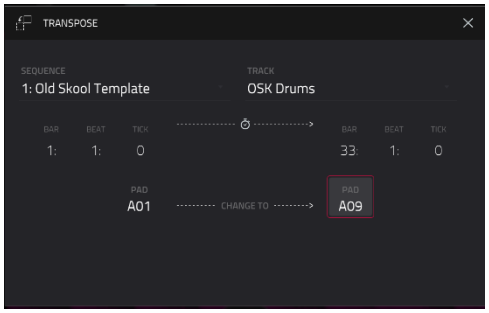
The **Clear Events** function only erases **all** events from the sequence.

Tap **Clear Events** to confirm your choice.

Tap **Cancel** to return to the previous screen.

The **Trim** function immediately crops the arrangement to the **Bars** value in the main Arrangement Mode window.

The **Transpose** function transposes a range of events on a track in an arrangement. The events within that range will shift accordingly in the ***Grid View***. This option is available for MIDI tracks only.



Use the **Track** field to select the track you want to transpose within the arrangement.

Use the two sets of **Bar**, **Beat**, and **Tick** fields to set the time range of the arrangement you want to transpose. The left fields set the start of the time range, and the right fields set the end of the time range.

For drum tracks, use the two **Pad** fields to select the "source" pad (whose events you want to move) and "destination" pad (where the events will be placed). Tap each field and then press the desired pad.

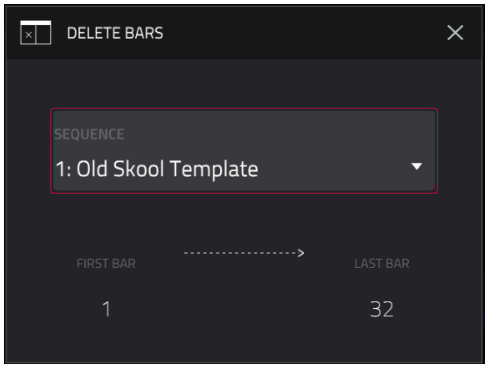
For keygroup tracks, plugin tracks, and MIDI tracks, set the range and amount of transposition:

Range: Use the two **Note** fields to set the range of notes of the events you want to transpose. Note events within this range will be transposed, while note events outside of this range will remain unchanged.

Transpose: Use this field to set how many semitones up or down you want to transpose the note events.

Tap **Do It** to confirm your choice, or tap the **X**, **Cancel**, or anywhere outside the window to cancel and return to the previous screen.

The **Delete Bars** function removes a range of bars from the arrangement.

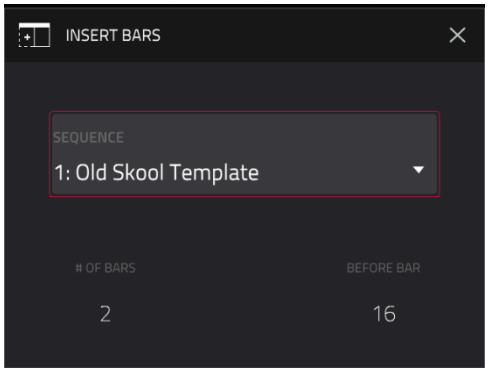


Use the **First Bar** and **Last Bar** fields to set the range of bars to delete from the arrangement.

To confirm your choice, tap **Do It**.

Tap **Do It** to confirm your choice, or tap the **X**, **Cancel**, or anywhere outside the window to cancel and return to the previous screen.

The **Insert Bars** function adds a number of bars to the arrangement.



Use the **# of bars** field to set how many bars to add.

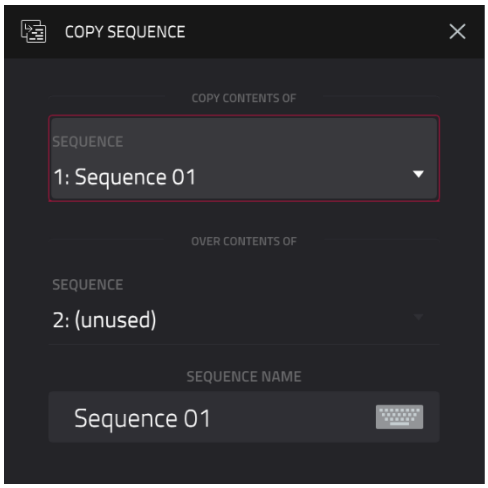
Use the **Before Bar** field to set where the bars are added. The bars will be inserted before this bar.

Tap **Do It** to confirm your choice, or tap the **X**, **Cancel**, or anywhere outside the window to cancel and return to the previous screen.

The **Half Length** function **immediately** halves the length of the arrangement.

The **Double Length** function **immediately** doubles the length of the arrangement.

The **Copy Sequence** function copies the contents of one sequence to another.



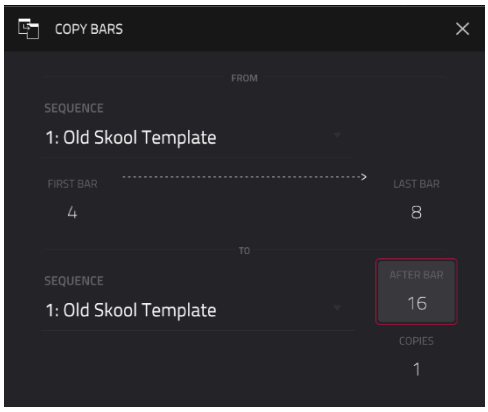
Use the **Copy Contents of Sequence** field to select the "source" sequence. This is the sequence whose events you want to copy.

Use the **Over Contents of Sequence** field to select the "destination" sequence. This is the sequence where the source sequence will be copied.

Tap **Do It** to confirm your choice.

Tap **Cancel** to cancel and return to Arrange Mode.

The **Copy Bars** function copies a range of bars from the arrangement and adds them at a specified point.



Use the **First Bar** and **Last Bar** fields to set the range of bars to copy from the arrangement.

Use the **After Bar** field. The copied bars will be inserted after this one to set where you want to add the copied bars.

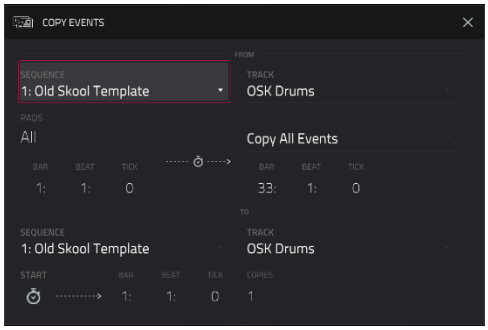
Use the **Copies** field to set how many instances of the copied bars you want to add.

Tap **Replace** to overwrite the arrangement at the destination.

Tap **Merge** to add the events to the destination without erasing anything.

Tap **Cancel** to cancel and return to Arrange Mode.

The **Copy Events** function copies a range of events from a track in the arrangement and adds them to another at a specified point.



Use the **From Track** field to select the "source" track. This is the track whose content you want to copy.

Use the field below the **From Track** field to set what content is copied. **Copy All Events** will copy and paste all events in the track. **Copy Only Selected Events** will copy and paste only the events that are currently selected.

Use the **Bar**, **Beat**, and **Tick** fields to set the time range of the events or the audio track you want to copy. The left fields set the start of the time range, and the right fields set the end of the time range.

Use the **To Track** field to select the "destination" track. This is the track where the content of the source track will be copied.

Use the **Bar**, **Beat**, and **Tick** fields to set where you want to add the copied events or audio track. The events or audio track will be added after this point.

Use the **Copies** field to set how many instances of the copied events or audio track you want to add.

Tap **Replace** to overwrite the arrangement at the destination.

Tap **Merge** to add the events to the arrangement at the destination without erasing anything.

Tap **Cancel** to cancel and return to Arrange Mode.

In Arrange Mode, you can tap and hold on the header for a MIDI track (on the left side of the screen) to open a drop-down menu of track edit options for MIDI tracks.

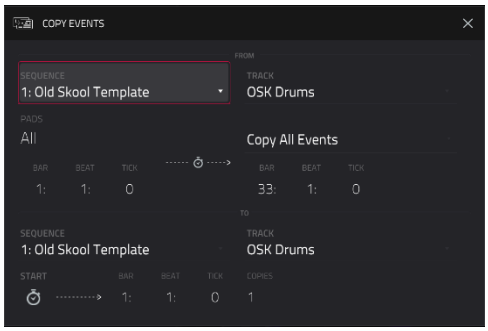
The **Clear** function erases **all** events from the track.

Tap **Clear** to confirm your choice.

Tap **Cancel** to return to the previous screen.

The **Delete Track** function instantly removes the track and all of its contents.

The **Duplicate Track** function **immediately** duplicates the selected track to a new track.



The **Copy Events** function copies a range of events from a MIDI track in the arrangement and adds them to another at a specified point.

Use the **From Track** field to select the “source” track. This is the track whose content you want to copy.

Use the field below the **From Track** field to set what content is copied. **Copy All Events** will copy and paste all events in the track. **Copy Only Selected Events** will copy and paste only the events that are currently selected.

Use the **Bar**, **Beat**, and **Tick** fields to set the time range of the events or the audio track you want to copy. The left fields set the start of the time range, and the right fields set the end of the time range.

Use the **To Track** field to select the “destination” track. This is the track where the content of the source track will be copied.

Use the **Bar**, **Beat**, and **Tick** fields to set where you want to add the copied events or audio track. The events or audio track will be added after this point.

Use the **Copies** field to set how many instances of the copied events or audio track you want to add.

Tap **Replace** to overwrite the arrangement at the destination.

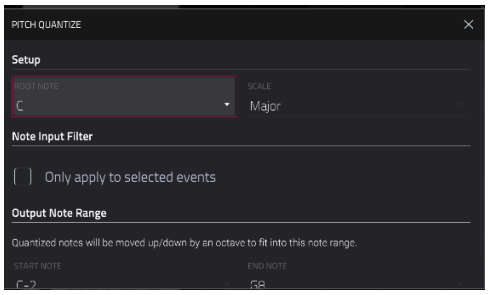
Tap **Merge** to add the events to the arrangement at the destination without erasing anything.

Tap **Cancel** to cancel and return to Arrange Mode.

The **Double-Speed Events** function **immediately** halves the lengths of all note events on the track in the arrangement as well as the distance between them. In other words, the track's notes are pressed closer together so the track sounds like it is playing at twice the previous speed. This does not actually affect the pitches of notes or the tempo.

The **Half-Speed Events** function **immediately** doubles the lengths of all note events on the track in the arrangement as well as the distance between them. In other words, the track's notes are spread further apart so the track sounds like it is playing at half of the previous speed. This does not actually affect the pitches of notes or the tempo.

The **Pitch Quantize** function forces the pitches of note events into a specific scale.



Use the **Root Note** field to select the desired root note of the scale.

Use the **Scale** field to select a type of scale.

To determine which note events will be quantized, tap the **Only apply to selected events** checkbox.

When **on**, only the currently selected note events will be quantized.

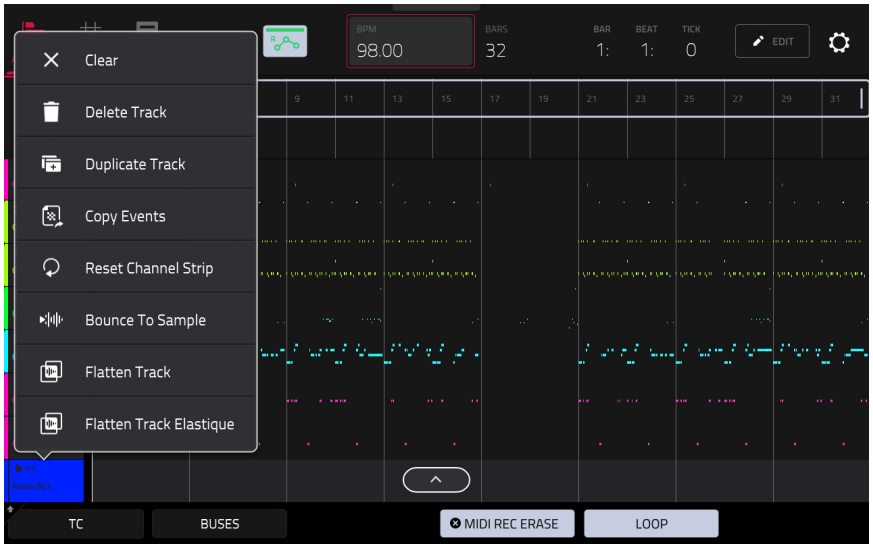
When **off**, **all** pitches in the current track will be quantized.

Use the **Start Note** and **End Note** fields to set lowest-possible and highest-possible pitches where the quantized note events will be placed (respectively). If a note event is originally outside of this range, it will be forced to the nearest pitch (within the scale) inside the range.

Tap **Do It** to confirm your choice, or tap the **X**, **Cancel**, or anywhere outside the window to cancel and return to the previous screen.

The **Bounce to Sample** function **immediately** renders the track as an audio sample and places it in the project's sample pool. By default, it will be named **Bounce -** and appended with the track name. This function does not work for MIDI or CV tracks.

The **Bounce to Audio Track** function **immediately** renders the track as an audio track in the project. By default, it will be named **Audio** and appended with a number (e.g., **Audio 002**). This function does not work for MIDI or CV tracks.



You can also tap and hold on the header for an audio track (on the left side of the screen) to open a drop-down menu of track edit options for audio tracks.

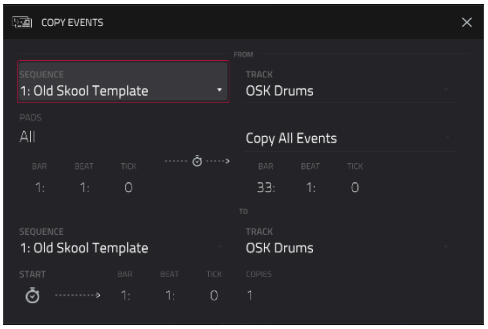
The **Clear** function erases **all** events from the track and resets **all** of its settings.

To confirm your choice, tap **Clear**.

To return to the previous screen, tap **Cancel**.

The **Delete Track** function instantly removes the track and all of its contents.

The **Duplicate Track** function **immediately** duplicates the selected track to a new track.



The **Copy Events** function copies selected audio track regions from the track and adds them to another at a specified point.

Use the **From Track** field to select the “source” track. This is the track whose content you want to copy.

Use the field below the **From Track** field to set what content is copied. **Copy All Events** will copy and paste all events in the track. **Copy Only Selected Events** will copy and paste only the events that are currently selected.

Use the **Bar**, **Beat**, and **Tick** fields to set the time range of the events or the audio track you want to copy. The left fields set the start of the time range, and the right fields set the end of the time range.

Use the **To Track** field to select the “destination” track. This is the track where the content of the source track will be copied.

Use the **Bar**, **Beat**, and **Tick** fields to set where you want to add the copied events or audio track. The events or audio track will be added after this point.

Use the **Copies** field to set how many instances of the copied events or audio track you want to add.

Tap **Replace** to overwrite the arrangement at the destination.

Tap **Merge** to add the events to the arrangement at the destination without erasing anything.

Tap **Cancel** to cancel and return to Arrange Mode.

The **Reset Channel Strip** function **immediately**:

- clears all **Insert** effect slots;
- turns **Mute**, **Solo**, automation, and **Monitor** off;
- resets the **pan knob** to the center;
- resets the **level slider** to **0.00 dB**; and
- turns the **Record Arm** button off.

The **Bounce to Sample** function **immediately** renders the track as an audio sample and places it in the project's sample pool. By default, it will be named **Bounce -** and appended with the track name.

The **Flatten Track** function renders all edits and regions within the current track's arrangement to a new audio file.

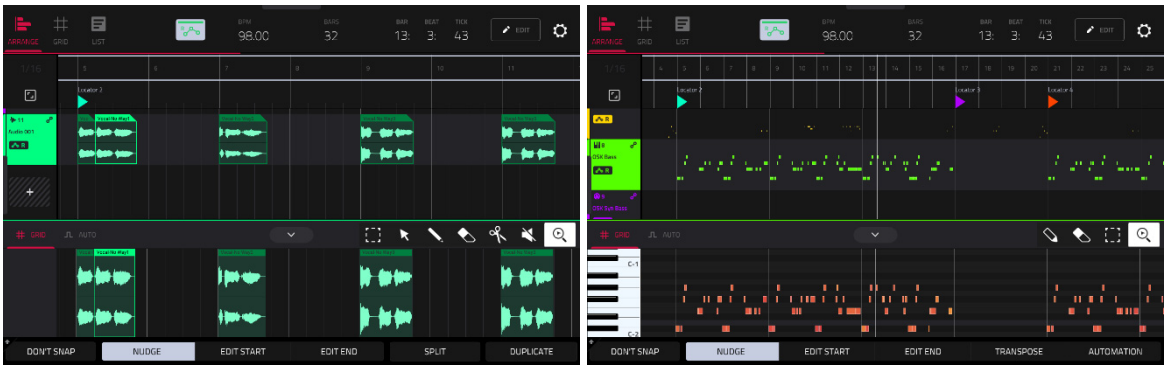
The **Flatten Track Elastique** function also renders all edits and regions within the current track's arrangement to a new audio file, but renders any time-stretching or pitch-shifting using the Elastique Pro algorithm, providing higher-quality results with less artifacts than MPC's standard algorithm.

Arrangement Track Editor

When in Arrange Mode, events from the currently selected track can be edited using the bottom panel track editor.

To open the track editor, do either of the following:

- Tap the arrow up icon at the bottom of the screen.
- Double-tap inside a track lane in the main arrangement view.



Once opened, you can also adjust the height of the track editor by tapping and dragging the arrow icon or anywhere in the editor toolbar.

For drum tracks, you can tap and hold on a pad header in the track editor to open a drop-down menu where you can quickly **Mute**, **Solo**, or change the **Color** of the pad.

To close the track editor, tap the down arrow icon.

At the top of the Track Editor are two tabs, **Grid** and **Auto**. Use the **Grid** tab to edit MIDI events or audio regions. Use the **Auto** tab to edit automation for the track. The editing workflow in the arrangement track editor is the same as in the ***Grid View***.

Press and hold **Shift** to view additional editing options for the Track Editor.

Tap **Select All** to select all events.

Tap **Cut** to cut the selected events.

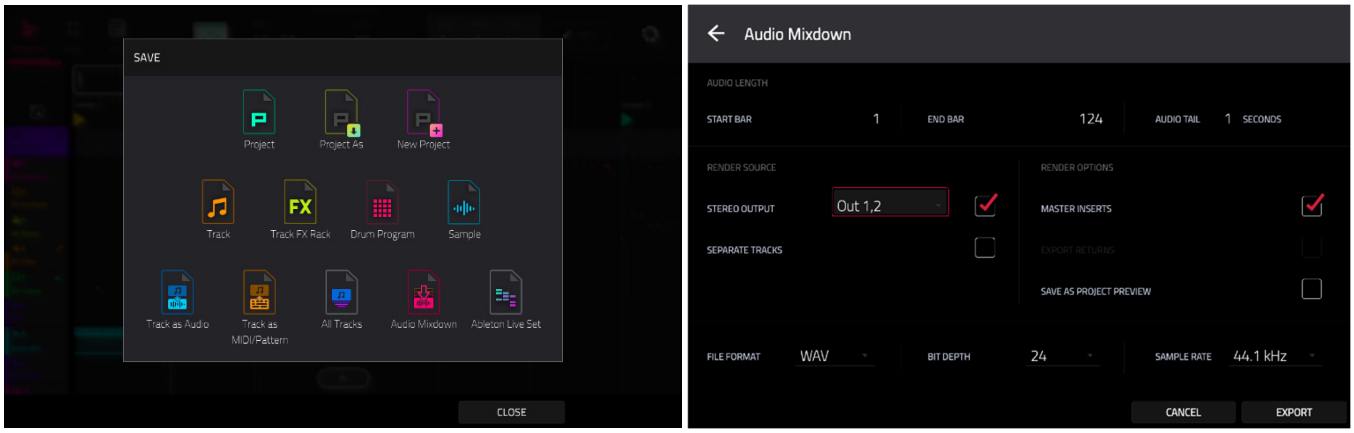
Tap **Copy** to copy the selected events.

Tap **Paste** to paste the selected events at the playhead location.

Tap **Delete** to delete the selected events.

Tap **Duplicate** to duplicate the selected events. The events will be added after the last selected event.

Saving and Exporting the Arrangement



To save and export your arrangement, press the **Menu** button, and then tap **Save**. In the Save window, select **Audio Mixdown** to mixdown or stem your arrangement into individual files.

Use the **Start Bar** and **End Bar** fields under Audio Length to set the time range that you want to mixdown. You can add a number of seconds to the end of the mixdown to capture any ringing notes or effects (such as a reverb tail) by adjusting the **Audio Tail** field.

Use the fields under **Render Source** and **Render Options** to set the parameters for the audio mixdown. Check the **Separate Tracks** box to render each track of the arrangement as stems.

To configure the audio mixdown file settings, use the fields at the bottom of the screen to set the **File Format**, **Bit Depth**, and **Sample Rate**.

You can also export the arrangement as an ALS file to use with Ableton Live.

To export the arrangement for Ableton, press the **Menu** button and then tap **Save**. In the Save window, select **Ableton Live Set** to bring up the Ableton Live Set Export popup.

Use the **Export MIDI As** settings to choose how MIDI tracks are exported, either as **Audio** files or **MIDI** files. When using Plugin, Drum, or Keygroup tracks, you can render the arrangement as **Audio** to preserve the sound of the instruments, or render the arrangement as **MIDI** data.

Check the **Include Track Volume/Pan Settings** box to include these settings in the export. When disabled, the volume and pan settings will be set to **0 dB** and center (**C**), respectively.

Check the **Bypass Track Effects Plugins** box to deactivate any third-party effect plugins used with the track for the export. When disabled, those effects will be activated.

Use the **Audio Tail** field to set the amount, in **seconds**, of extra time added to the end of the resulting audio files.

Use the **Bit Depth** field to set the bit depth to **8**, **16** or **24**.

Use the **Sample Rate** field to set the sample rate to **44.1**, **48**, **88.2** or **96 kHz**. In most cases, we recommend selecting **44.1 kHz**.

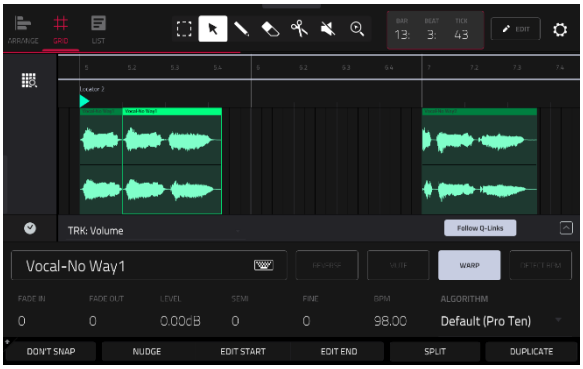
Grid View

The Grid View lets you view and edit the note events or audio regions of each track in a project and their velocities. This mode has three different appearances: one for audio tracks, one for drum tracks and one for keygroup tracks, MIDI tracks, and plugin tracks.

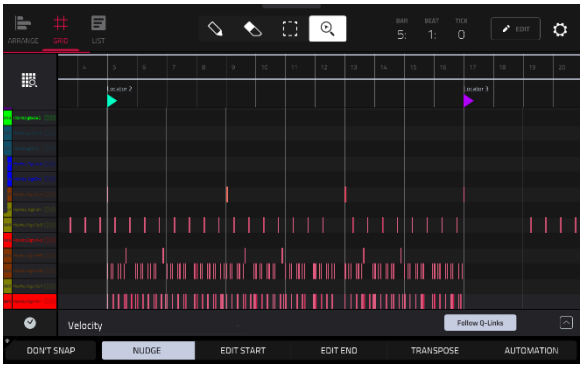
To enter Grid View, do any of the following:

- Press **Menu** and then tap **Grid**. You can also tap **Grid** at the top of the screen in **Arrange Mode** or **List Mode**.

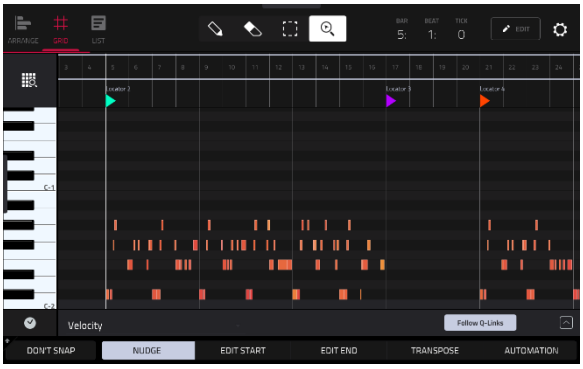
For audio tracks, the waveform of the audio sample is shown.



For drum tracks, the left column shows you all available pads in a vertical view with their corresponding events in the grid to the right.

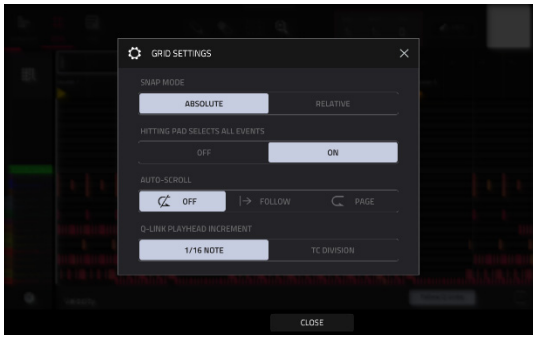


For keygroup, plugin, MIDI and CV tracks, the left column shows a vertical “piano roll” keyboard with the corresponding events in the grid to the right.



In all views, the time counter at the top of the screen indicates the current playhead position.

Tap the **gear icon** to open the **Grid Settings** window to configure the following Grid Editor settings:



Use the **Snap Mode** selector to set how events "snap" to the grid.

Absolute: Events will "snap" to the nearest time division on the grid (as determined by the **TC** field or **Timing Correct** window). This is the typical and traditional method of using the snap/ quantization feature.

Relative: Events will "snap" to the nearest time division on the grid (as determined by the **TC** field or **Timing Correct** window) **plus** the original time position of the event (e.g., an event that is originally three ticks past a time division on the grid will snap only to positions that are three ticks past every time division).

Use the **Hitting Pad Selects All Events** selector to turn the feature on or off. When **On**, pressing a pad will automatically select all note events for that pad on that track. When set to **Off**, pressing a pad will simply play its sound without selecting any note events.

This setting is not available when using audio tracks.

Use the **Auto-Scroll** selector to set how the screen behaves relative to the audio playhead.

Follow: The list will scroll along in the background while keeping the audio playhead centered.

Page: The list will move to the "next page" to follow the audio playhead.

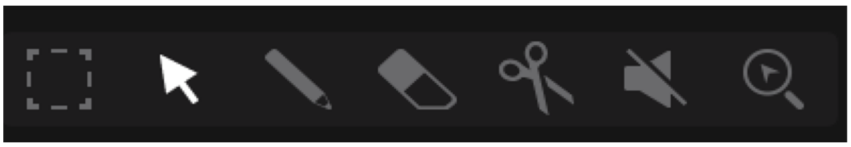
Off: The list will not move at all.

Use the **Q-Link Playhead Increment** selector to set how much the playhead moves by when using the Q-Link controls. Select **1/16 Note** to lock playhead movement to 1/16 notes, or select **TC Division** to have the playhead movement tied to the current Timing Correct division. This value can be set in the Timing Correct window in Grid View by tapping the **clock icon** at the bottom-left of the grid.

These functions also apply to ***Arrange Mode***.

Audio Tracks

When viewing audio samples in Grid View, these seven tool icons at the top of the screen enable you to use different functions in the sample.



Tap one to select its mode:

Marquee: Marquee Mode:

To select a sample region, tap the upper third of it.

To move a sample region (or multiple selected sample regions), tap and drag the upper third of it left or right.

To split the sample at two specific points (creating a sample region on either side and between them), tap and drag across the middle third of it to create a translucent white box, and then tap the upper third of that box.

To shorten or lengthen a sample region (or multiple selected sample regions), tap and drag the lower third of it left or right.

Arrow: Selection Mode:

To select a sample region, tap it.

To move a sample region (or multiple selected sample regions), tap and drag the upper third of it left or right.

To shorten or lengthen a sample region (or multiple selected sample regions), tap and drag the lower third of it left or right.

Pencil: Draw Mode:

To draw automation, open the velocity/automation lane and tap and drag.

Eraser: Erase Mode:

To erase a sample region (or multiple selected sample regions), tap it.

Scissors: Split Mode:

To split the sample at a specific point (creating a sample region on either side), tap that point in the sample.

To select a sample region, tap its left-most edge.

Mute: Mute Mode:

To mute or unmute a sample region (or multiple selected sample regions), tap it.

Magnifying Glass: Navigation Mode:

To move to another part of the sample, tap and drag it.

To zoom in or out, spread or pinch your fingers (respectively) on the grid. You can do this vertically, horizontally, or both at the same time.

Tap the **pencil Edit** icon to open the Grid Edit menu for audio regions:

Use **Clear** to clear audio from the track.

Use **Double Length with Events** to double the length of the track, including doubling the audio samples.

Use **Flatten** or **Flatten Elastique** to flatten the audio track when transport playback is stopped, rendering all the edits and regions within the arrangement to a single new audio file. The Elastique Pro algorithm can be used for time-stretching or pitch-shifting, providing higher-quality results with less artifacts than MPC's standard algorithm.

Use **Bounce to Sample** or **Bounce to Audio Track** to export the audio regions to a new sample added to the project sample pool or a new audio track in the project.

Use the **Audio Tail** field to set the amount, in **seconds**, of extra time added to the end of the resulting audio files.

Regardless of which tool is selected, you can do any of the following to edit the selected audio regions.

To select an audio region, tap the arrow icon to enter Selection Mode and tap an audio region. When an audio region is selected, all region parameters will be available to edit.

Press **Undo** on your MPC to undo your last action.

Press **Shift** and **Undo** on your MPC to redo the last action you undid.

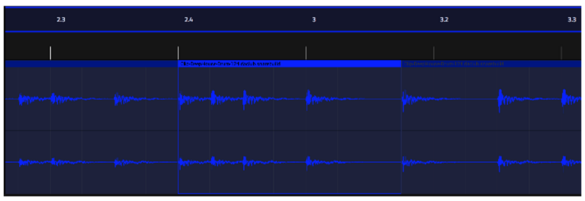
To move the selected audio region, tap **Nudge** at the bottom of the screen, and then use the **data dial** or **–/+** buttons to shift the audio region left or right. Alternatively, if the **arrow tool** or **marquee tool** are selected, tap and drag the upper third of the selected audio region left or right. By default, you can move an audio region only by quantization values defined by the ***Timing Correct (TC)*** value.

To move the selected audio region without restricting ("snapping") **it to the quantization grid**, tap **Don't Snap** in the lower-left corner of the screen, and then use the **data dial** or **–/+** buttons to shift the audio region. In this case, each nudge is equivalent to four ticks.

To adjust the start point or end point of the selected audio region (without changing its position), tap **Edit Start** at the bottom of the screen, and then use the **data dial** or **–/+** buttons.

Tap **Split** at the bottom of the screen to split the audio region at the current playhead position (creating an audio region on either side).

To copy, cut, or paste the selected audio region, press and hold **Shift**, and then tap **Copy** or **Cut**. Turn the **data dial** to move the highlighted audio region, and then press the **data dial** to paste it at its current location. Alternatively, press and hold **Shift**, and then tap **Paste** (respectively).

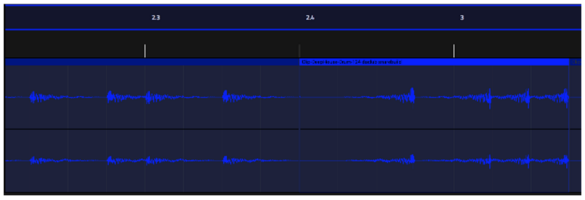


Tap **Duplicate** at the bottom of the screen to duplicate the selected audio region. The duplicate audio region will appear immediately after the original one.

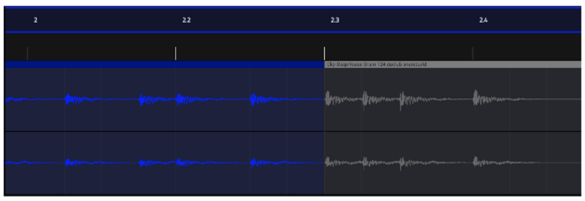
Use the **Fade In** or **Fade Out** fields to create a fade-in or fade out for the selected audio region, respectively. The fades will be shown as a sloped line at the start or end of the audio region.

Use the **Level** field to set the level of the selected audio region. The waveform amplitude will change accordingly.

Tap **Reverse** to reverse the selected sample region.



Tap **Mute** to mute the selected sample region.



To lengthen or shorten the selected audio region without changing its pitch, tap **Warp**, which will enable the **Semi**, **Fine**, and **BPM** fields next to it.

Use the **BPM** field to change the tempo manually, which will change the length of the audio region accordingly.

To have MPC analyze the tempo of the region, tap the **Detect BPM** button. In the **Edit BPM** window that appears, you can do any of the following:

- Use the **BPM** field to enter a tempo manually. This is the same as the **BPM** field on the previous page.
- Tap **Detect** to detect the tempo automatically.
- Tap **Tap Tempo** at the bottom of the screen at the desired rate to use it as the tempo.
- Tap **Close**, the **X**, or anywhere outside the window to close it.

Use the **Semi** and **Fine** fields if you want to change the pitch (this is useful for matching the durations of two samples with different pitches).

Use the **Algorithm** field to set the Warp algorithm for the sample. By default, this will be set to whatever is selected as the **Default Audio Warp Algorithm** under ***Menu > Preferences > Audio/Export***. Adjusting the setting here will override the default selection. Select **Pro Ten** or **Repitch**. When using Repitch, warping an audio sample will adjust its pitch to synchronize it with the MPC tempo.

Tip: You can configure audio track recording to ensure the resulting audio region is warped automatically. You can then adjust the project tempo while audio region remains in time. See **Menu** > **Preferences** > **General** to learn about this.

Note: When you record an audio file, the current project tempo will be embedded with it. This information is stored within the sample file when you save the project. When you warp an audio region, the warping algorithm uses this project tempo and the current value in the BPM field to generate the "stretch factor."

Note: Warp algorithms are very CPU-intensive and can result in audio drop-outs during playback if used too freely. Be mindful of how (and how often) you use the warp function. You can reduce the CPU resources required by doing any/all of the following:

Minimize the amount of pitch adjustment (e.g., the **Semi** and **Fine** fields).

Avoid warping very small audio regions.

Warp as few tracks or audio regions as possible (i.e., reduce the number of total number of voices [of the polyphonic limit] that use the warp algorithm at a given time), especially instances where the warped regions start at the same time.

If you have warped samples used in a drum kit, consider using the **Flatten Pad** function to consolidate the affected pad's layers into one audio sample. After you flatten the pad, its sample/samples no longer need to be warped.

To open the *Timing Correct (TC)* window, press and hold **Shift**, and then tap **TC** at the bottom of the screen. Alternatively, tap the **clock icon** next to the automation lane.

To clear all automation from the track, press and hold **Shift**, and then tap **Clear Auto**.

To solo the track, press and hold **Shift**, and then tap **Solo** at the bottom of the screen.

MIDI Tracks

When viewing MIDI tracks in Grid View, use these four tool icons at the top of the screen to use different functions in the grid.

Tap one to select its mode:

Pencil: Draw Mode:

To enter a note in an empty grid square, tap the grid square.

To select a note, tap it.

To move a note, tap and drag it to another grid square.

To erase a note, double-tap it.

To edit velocity or draw automation, tap and drag in the velocity/automation lane.

Eraser: Erase Mode:

To erase a note, tap it. You can also tap and drag to erase multiple notes in the same row.

Select Box: Select Mode:

Note: Notes will remain selected if you switch to another mode. The selection will change, however, if you press a pad while **Hitting Pad Selects All Events** is set to **On**.

To select a note, tap it.

To select multiple notes, tap and drag across the grid to create a box around them.

To move a note, tap and drag it to another grid square.

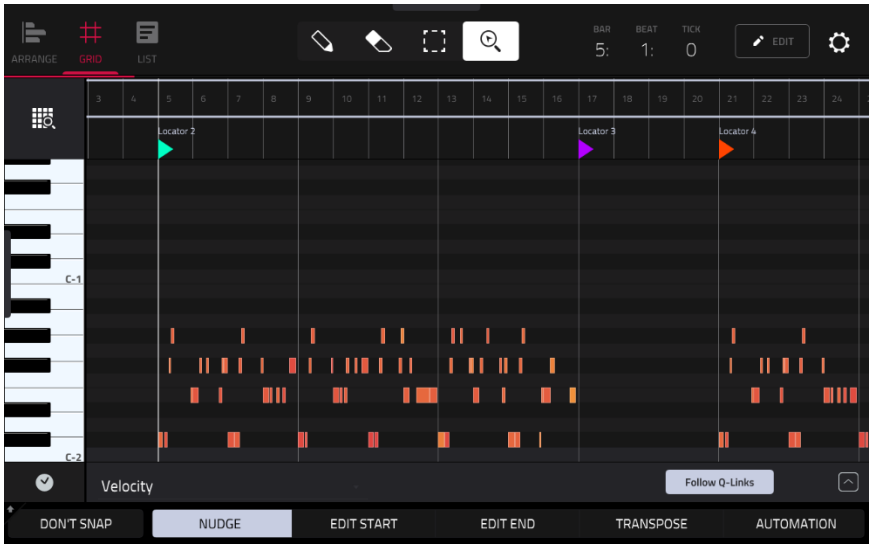
To move multiple notes, select them as described above, and tap and drag them.

To erase multiple notes, select them as described above, and then select the **eraser tool** and tap any of the selected notes.

Magnifying Glass: Navigation Mode:

To move to another part of the grid, tap and drag it.

To zoom in or out, spread or pinch your fingers (respectively) on the grid. You can do this vertically, horizontally, or both at the same time.



Regardless of which tool is selected, you can do any of the following to move, lengthen, shorten, or transpose any selected note/notes.

Tap the **grid-and-magnifying-glass icon** in the lower-left corner to automatically set the grid to view the active area, up to three pad banks and 32 bars.

Press **Undo** on your MPC to undo your last action.

Press **Shift** and **Undo** on your MPC to redo the last action you undid.

Press the desired **pad** to select all notes for a pad.

To move the selected notes, tap **Nudge** at the bottom of the screen, and then use the **data dial or –/+** buttons to shift the notes left or right. By default, you can position notes only by quantization values defined by the **Time Correct** value.

To move the selected notes without restricting ("snapping") **them to the quantization grid**, tap **Don't Snap** in the lower-left corner of the screen, and then use the **data dial or –/+** buttons to shift the notes. In this case, each nudge is equivalent to four ticks.

To adjust the start point or end point of the selected notes (without changing their position), tap **Edit Start** or **Edit End** at the bottom of the screen, and then use the **data dial or –/+** buttons.

To transpose the selected notes up or down, tap **Transpose** at the bottom of the screen, and then use the **data dial or –/+** buttons.

To adjust an automation parameter for the selected notes, tap **Automation** at the bottom of the screen, and then use the **data dial or –/+** buttons to adjust the selected automation parameters.

To select all notes in the grid instantly, press and hold **Shift** and then tap **Select All** at the bottom of the screen.

To copy, cut, or paste the selected notes, press and hold **Shift**, and then tap **Copy** or **Cut**. Once the notes have been copied or cut, press and hold **Shift**, and then tap **Paste** to add them to the current playhead position.

To delete the selected notes, press and hold **Shift** and then tap **Delete** at the bottom of the screen.

To duplicate the selected notes instantly, press and hold **Shift** and then tap **Duplicate** at the bottom of the screen. The duplicate notes will appear immediately after the original ones.

To open the *Timing Correct (TC)* window, press and hold **Shift** and then tap **TC** at the bottom of the screen. Alternatively, tap the **clock icon** next to the automation lane.

Tap the pencil **Edit** icon next to the time counter to open the event editing window. You can use any of these functions as described below.

To return to Grid View, tap **Cancel** or tap at the top of the screen.

The **Clear Events** function erases **all** events from the track.

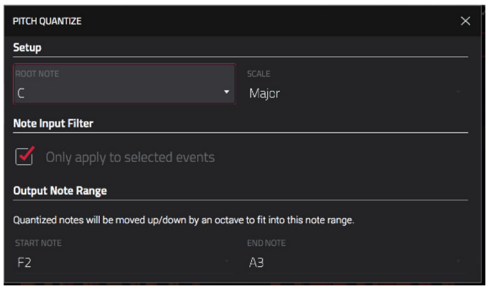
Tap **Clear** to confirm your choice, or tap **Cancel** to return to the previous screen.

The **Double Length with Events** function **immediately** doubles the length of the arrangement and duplicates the events.

The **Half-Speed Events** function **immediately** doubles the lengths of all note events in the sequence as well as the distance between them. In other words, all notes are spread further apart so the sequence sounds like it is playing at half of the previous speed. This does not actually affect the pitches of notes or the tempo.

The **Double-Speed Events** function **immediately** halves the lengths of all note events in the sequence as well as the distance between them. In other words, all notes are pressed closer together so the sequence sounds like it is playing at twice the previous speed. This does not actually affect the pitches of notes or the tempo.

The **Pitch Quantize** function forces the pitches of note events into a specific scale.



Use the **Root Note** field to select the desired root note of the scale.

Use the **Scale** field to select a type of scale.

To determine which note events will be quantized, tap the **Only apply to selected events** checkbox.

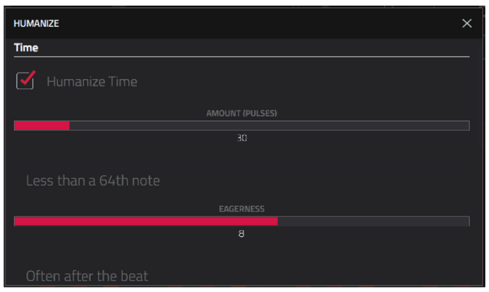
When **on**, only the currently selected note events will be quantized.

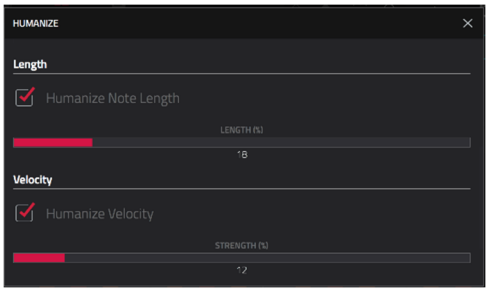
When **off**, **all** pitches in the current sequence will be quantized.

Use the **Start Note** and **End Note** fields to set lowest-possible and highest-possible pitches where the quantized note events will be placed (respectively). If a note event is originally outside of this range, it will be forced to the nearest pitch (within the scale) inside the range.

Tap **Do It** to continue and quantize the note events, or tap **Close**, the **X**, or anywhere outside the window to cancel.

The **Humanize** function applies randomization to the timing, length, and/or velocity of note events.





Tap the **Humanize Time** checkbox to select whether or not humanization will be applied to the timing of note events.

Use the **Amount** (**Pulses**) slider to select the maximum number of pulses by which the timing of an event will be adjusted.

Use the **Eagerness** slider to set how dramatically the humanization effect is applied to the timing. Negative values correspond to playing "ahead of the beat" while positive values correspond to playing "behind the beat."

Tap the **Humanize Note Length** checkbox to set whether or not humanization will be applied to the duration of note events.

Use the **Length** (%) slider to set how dramatically the humanization effect is applied to note lengths.

Tap the **Humanize Velocity** checkbox to set whether or not humanization will be applied to the velocities of note events.

Use the **Strength** (%) slider to set how dramatically the humanization effect is applied to note velocities.

Tap the **Only Apply to Selected Events** checkbox to determine which notes will use these humanization values:

When **on**, just the currently selected notes will be humanized.

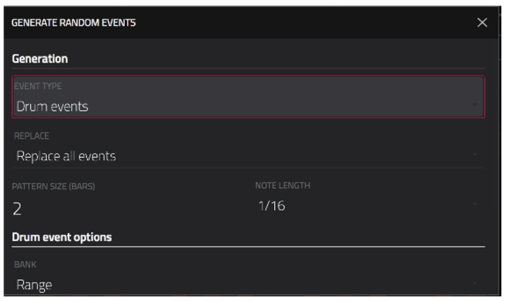
When **off**, all notes in the sequence will be humanized.

Tap **Apply** to apply humanization and keep this window open.

Tap **Do It** to apply humanization and close the window.

Tap **Close**, the **X**, or anywhere outside the window to close the window without making any changes.

The **Generate Random Events** function creates random melodic or drum patterns in the current sequence.



Use the **Event Type** field to select **Drum Events** or **Melodic Events** to select the type of events you want to create.

Use the **Replace** field to select how the events will be created relative to the existing events on the track:

Replace All Events: Select this option to replace all events in the sequence with the randomly generated ones.

Replace Events in Note Range: Select this option to replace all events in the designated note range in the sequence with the randomly generated ones. Use the **Bank** or **Start Pad** and **End Pad** menus to set the note range for drum events or the **Start Note** and **End Note** menus to set the note range for melodic events.

Add to Existing Events: Select this option to add the randomly generated events to the sequence without replacing or overwriting the existing ones.

Use the **Pattern Size** (**Bars**) field to set how many bars the events will use. The highest possible value is the number of bars in the current sequence.

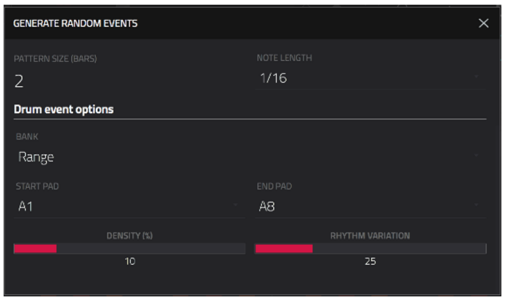
Use the **Note Length** field to select the duration of the events. (This feature is nonfunctional if **Legato** is enabled while generating melodic events.)

Tap **Apply** to generate the events and keep this window open.

Tap **Do It** to generate the events and close the window.

Tap **Close**, the **X**, or anywhere outside the window to close the window without generating any events.

If **Event Type** is set to **Drum Events**:



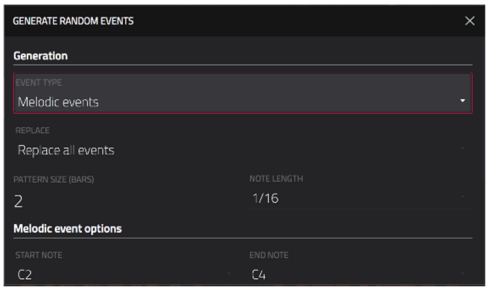
Use the **Bank** field to select the pad bank that will be used to generate the events, or select **Range** to use the **Start Pad** and **End Pad** menus to define a specific pad range instead.

Use the **Start Pad** or **End Pad** fields to define a specific pad range over which the events will be generated. You can use these fields only if the **Bank** menu is set to **Range**.

Use the **Density** (**%**) slider to set how closely together the events will be placed in the sequence.

Use the **Rhythm Variation** slider to set how widely or narrowly the rhythmic patterns of the generated notes vary.

If **Event Type** is set to **Melodic Events**:

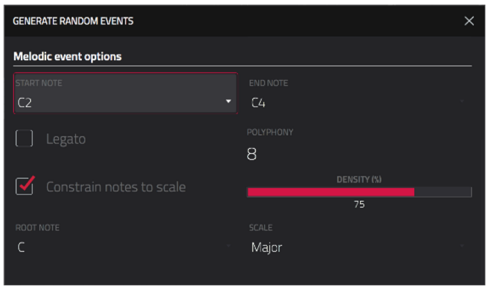


Use the **Start Note** or **End Note** fields to define a specific note range over which the events will be generated.

Tap the **Legato** checkbox to enable or disable legato.

When **on**, the generated notes will be extended or shortened to create a long, unbroken phrase from the first note event's start point to the last note event's end point. Each note event will sustain until another note event starts. If multiple note events start at the same time (and are not the last note events), their lengths will become identical.

When **off**, the generated notes will use the duration set by the **Note Length** menu.



Use the **Polyphony** field to select to set the maximum number of note events that can be sounding simultaneously in the track (**1**–**8**).

Tap the **Constrain Notes to Scale** checkbox to determine whether or not the notes will use a scale.

When **on**, the notes will be within the scale determined by the **Scale** menu.

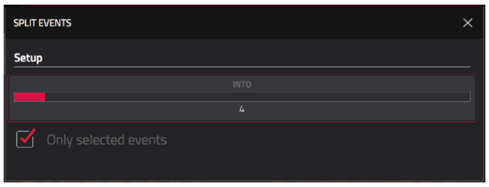
When **off**, the notes will be chromatic.

Use the **Density** (**%**) slider to set how closely together the events will be placed in the sequence.

Use the **Root Note** field to set the root note of the scale that the notes will use.

Use the **Scale** field to select the scale or mode that the generated notes will use.

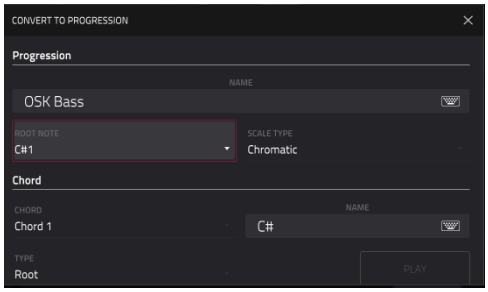
The **Split Note Events** process divides note events into an equal number of parts.



Use the **Into** field to set the number of parts note events will be split into.

Tap the **Only selected events** checkbox to set the process to only affect selected notes. When unchecked, all note events in the sequence will be split.

The **Convert to Progression** function creates a custom Progression from a melodic MIDI track that you can use to perform with Progressions Note mode.



To set the parameters of the new Progression, use the **Progression** fields:

- Use the **Name** field to set the progression name.
- Use the **Root Note** field to set the root note.
- Use the **Scale Type** field to set the scale type.

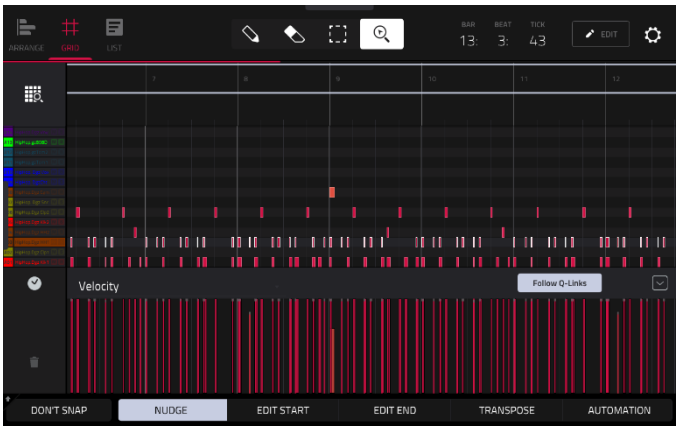
To set the parameters for the chords in the Progression, use the **Chord** fields:

- Use the **Chord** field to select a chord from the progression to edit.
- Use the **Name** field to rename the selected chord.
- Use the **Type** field to select to set the type of chord: **Root**, **Normal** or **Below Root**.
- Tap the **Play** button to play the selected chord.

Tap **Do It** to convert the progression and close the window, or tap the **X**, **Close** or anywhere outside the window to close the window and return to the previous screen.

Velocity/Automation Lane

Grid View also contains a velocity/automation lane where you can easily adjust note velocities and automation parameters.



The velocity/automation lane in the Grid Editor.

To show or hide the velocity/automation lane:

1. Tap the up **arrow** (∧) button in the lower-right corner to show the velocity/automation lane.
2. Tap the **down arrow** (∨) to hide the velocity/automation lane.

When editing velocity, each note's velocity is represented by a vertical bar. The higher and redder the bar is, the higher the velocity is. Yellow bars indicate a lower velocity. Bars with a gray line at the top indicate a currently selected note.

To adjust the velocity of the selected notes, tap **Velocity** at the bottom of the screen, and then use the **data dial** or **–/+** buttons.

To add automation to a track:

1. Select a **MIDI Track** or **Audio Track**, and then press **Menu** and tap **Grid View** to open Grid View.
2. Tap the **up arrow** on the parameter bar to expand the velocity/automation lane.
3. By default, **Velocity** is shown in this lane for MIDI tracks and **TRK: Volume** is shown for Audio tracks. Double-tap this field to open the **Parameter** drop-down menu.
4. In the menu that appears, tap **Add New** to add an automation parameter. You can choose from a variety of parameters depending on the type of track, insert effects added and other options.

To edit automation, do any of the following in Grid View:

- Use the **pencil** tool to draw your automation in the automation lane.
- Use the **eraser** tool to erase automation points. If you erase all automation points, the parameter will be removed.
- Tap the **trash can icon** to delete all automation for the selected parameter at once.

When editing **Probability** automation, the blue bars represent the probability that the note will play. When editing **Ratchet** automation, the blue bars represent the ratchet subdivisions for the selected notes, shown as dotted lines on the original note.

Step Sequencer

The Step Sequencer lets you create or edit sequences by using the pads as “step buttons,” simulating the experience of a traditional step-sequencer-style drum machine. This is available for MIDI tracks only, not audio tracks.

You can also create and edit automation using the Step Sequencer.

To enter the Step Sequencer, press **Menu**, and then tap **Step Sequencer**.

The top of the screen shows the track name and information as well as project and timing information.

The **Track** field shows the name of the current track.

Tap the **Track Length** field to set how long the track is in beats. When the **SEQ** button is on, the track length will follow the Sequence length. When this button is off, use the **Bars:Beats:Ticks** values to set the exact track length.

Tip: This feature lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

Use the **BPM** field to adjust the tempo of the project.

To set whether the sequence follows its own tempo (**Seq**) **or a global tempo** (**Gbl**), tap the **Seq/Gbl** button next to the BPM field. Alternatively, press and hold **Shift** and then press **Tap**.

The time counter at the top of the screen indicates the current playhead position.

Click the **gear icon** to open the Step Sequencer configuration window:

Use the **Velocity** field to set the default step velocity. This applies to notes added using the hardware pads or by tapping the step buttons on the screen.

Use the **Step Size** field to set the value that determines how many steps each bar of the sequence will have. The **T** indicates a triplet-based value. This will also adjust the current ***Timing Correct (TC)*** value, which can be accessed by tapping **TC** at the bottom of the Step Sequencer screen.

Use the **Auto-Scroll** selector to set how the screen behaves relative to the audio playhead:

Off: The grid will not move at all.

Page: The grid will move to the "next page" to follow the audio playhead.

Use the **Automation** field to determine whether Step Automation is **Unlocked** from the grid or **Locked to Step Length**. When set to the latter, changes to automation will only affect the current step. See the ***following*** section for more about sequencing automation.

The **TC icon** opens the ***Timing Correct (TC)*** window, which contains various settings to help quantize the note events in your sequence.

Use the **Bar –/+** buttons at the bottom of the screen to select the bar of the sequence whose steps you want to enter or delete. The current bar number is shown in the upper-left corner.

Use the **Pad –/+** buttons at the bottom of the screen to select the pad whose steps you want to enter or delete. The current pad number is shown in the upper-left corner.

Hold **Shift** and use the **Track -/+** buttons to select a track to sequence on.

Hold **Shift** and tap the **Clear** button to clear all steps in the current sequence.

Hold **Shift** and tap the **Clear Page** button to clear all steps in the current page view.

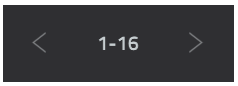
To enter or delete steps in a sequence:

1. Use the **Pad –/+** buttons at the bottom of the screen to select the pad whose steps you want to enter or delete. The current pad number is shown in the upper-left corner. You can also hold **Shift** and tap a pad to select it.

   Alternatively, use the Pad Select feature: Tap and hold **Pad Sel**, press the desired pad, and then release **Pad Sel**. You can also use Pad Select as a "latching" feature: tap **Pad Sel** so it is activated, press the desired pad, and then tap **Pad Sel** once more so it is deactivated.
2. Use the **Bar –/+** buttons at the bottom of the screen to select the bar of the sequence whose steps you want to enter or delete. The current bar number is shown in the upper-left corner.
3. Press the **pads** of your MPC hardware, or tap a button at the bottom of the sequencer. Each pad corresponds to a step in the bar and will light with a color corresponding to its velocity.

   Keep in mind that for time divisions larger than 16, the bar's steps will be represented by multiple pad banks. In this case, use **Pad Bank Buttons** to view all the steps within a bar.

For time divisions larger than 16, the bar's steps will be represented by multiple pad banks. In this case, use the left and right arrows (**<** and **>**) by the step numbers (**1**–**16**, **17**–**32**, etc.) to change which steps are shown in the sequencer.



Alternatively, use the **Pad Bank Buttons**.

To adjust the velocities of the steps, do any of the following:

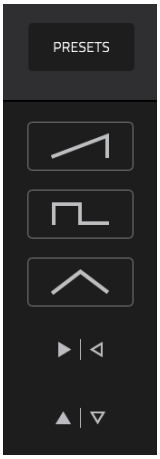
- Tap anywhere on the **velocity bar** of a step. The top of the velocity bar will jump to that point.
- Use the **slider** on the right edge of the screen to increase or decrease the velocities of all steps.
- Turn the **Q-Link knob** that corresponds to that step (the Q-Link knobs must be in the **Screen** edit mode). Setting a value of **0** (**Off**) will delete the step.

Use the **Nudge <** and **Nudge >** arrows to shift the entire pattern left or right (respectively) by one step. This is useful for experimenting with different rhythmic permutations.

Use the **slider** on the right edge of the screen to increase or decrease the velocities of all steps.

Use the **Flip Steps** button to switch which steps have notes entered and which do not have notes. Steps that previously had no notes will now have notes at full velocity (**127**). Steps that previously had notes will now be empty.

Tap **Presets** to show or hide the preset velocity controls. These controls let you manipulate and transform the velocities of the current bar in the sequence.



The **first** button will apply ascending or descending velocities to the steps. Each time you tap it, it will cycle through these options:

- The velocities will ascend to a single peak at the end of the bar.
- The velocities will ascend to two peaks—one after each half of the bar.
- The velocities will ascend to four peaks—one after each quarter of the bar.
- The velocities will descend from a single peak at the start of the bar.
- The velocities will descend from two peaks—one after each half of the bar.
- The velocities will descend from four peaks—one at the start each quarter of the bar.

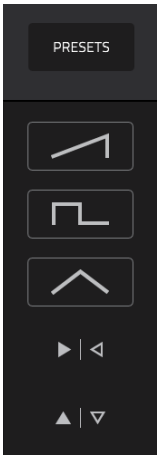
The **second** button will set the velocities of the steps to be at the maximum value (**127**) or minimum values (**1**), depending on their position in the bar. Each time you tap it, it will cycle through these options:

- The velocities of the first half of the bar will be set to **1**. The velocities of the second half will be set to **127**.
- The velocities of the first and third quarters of the bar will be set to **1**. The velocities of the second and fourth quarters will be set to **127**.
- The velocities of the first, third, fifth, and seventh eighths of the bar will be set to **1**. The velocities of the second, fourth, sixth, and eighth eighths will be set to **127**.
- The velocities of the first half of the bar will be set to **127**. The velocities of the second half will be set to **1**.
- The velocities of the first and third quarters of the bar will be set to **127**. The velocities of the second and fourth quarters will be set to **1**.
- The velocities of the first, third, fifth, and seventh eighths of the bar will be set to **127**. The velocities of the second, fourth, sixth, and eighth eighths will be set to **1**.

The **third** button will apply ascending or descending velocities to the steps. Each time you tap it, it will cycle through these options:

- Across the entire bar, the velocities will ascend to a peak and then descend from it.
- In each half of the bar, the velocities will ascend to a peak and then descend from it.
- In each quarter of the bar, the velocities will ascend to a peak and then descend from it.
- Across the entire bar, the velocities will descend from a peak into a valley and then ascend back up to the peak.
- In each half of the bar, the velocities will descend from a peak into a valley and then ascend back up to the peak.
- In each quarter of the bar, the velocities will descend from a peak into a valley and then ascend back up to the peak.

The **fourth** button will swap the first half and second half of the bar. In other words, the first half of the bar will become a mirrored image of the second half, and vice versa.



The **fifth** button will invert the velocities of all steps with entered notes. The sum of the old and new velocities will equal **127**. The exception is a velocity of **127** or **1** as a step with a note cannot have a velocity of **0**.

Examples:

Steps with velocities of **40** will now have velocities of **87**, and vice versa.

Steps with velocities of **75** will now have velocities of **52**, and vice versa.

Steps with velocities of **127** will now have velocities of **1**, and vice versa.

Step Automation

You can also create and edit automation using the Step Sequencer.

To add a step automation parameter:

1. By default, the **Parameter** field of the Step Sequencer displays **Velocity** for MIDI tracks and **TRK: Volume** for audio tracks. Double-tap this field to open the drop-down menu.
2. In the menu that appears, tap **Add New** to add an automation parameter. You can choose from a variety of parameters depending on the type of track, insert effects added and other options.

To edit step automation, do any of the following:

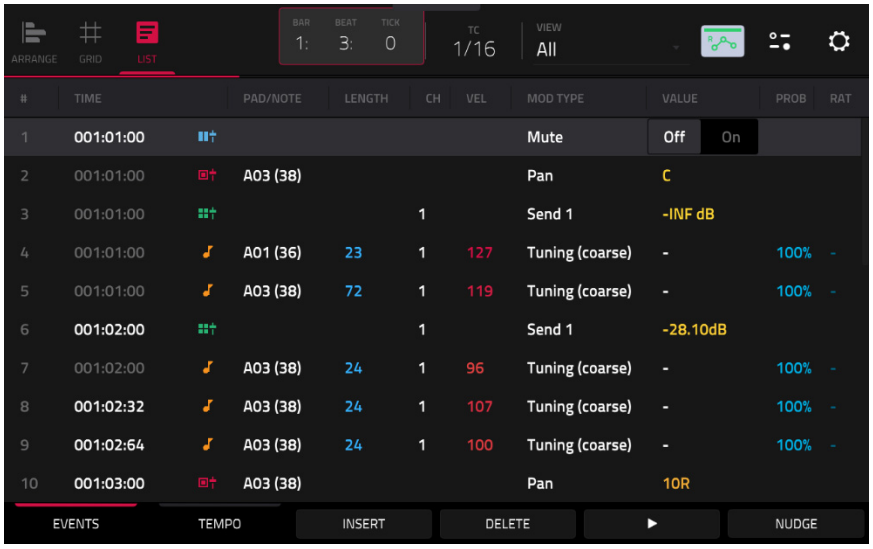
- Tap and drag your finger in the step area to freely draw step values.
- Press and hold the **Q-Link** button, and then tap **Screen** to set the Q-Link knobs to Screen Mode. While viewing the step sequencer, you can use the Q-Link knobs for tactile control of each step's automation value, emulating traditional knob-based step sequencers. While it is being adjusted, the current automation value will be shown next to the **Parameter** field, as well as in the display strip above the knobs (MPC X only).
- Press and hold **Shift** and tap **Clear** to clear all automation for the selected parameter in the selected sequence.
- Press and hold **Shift** and tap **Clear Page** to clear all automation for the selected parameter in the current page view of the selected sequence.
- Use the **Nudge <** and **>** buttons to shift the current automation parameter to the left or right at the current Timing Correct value.
- Use the **slider** on the right side to increase or decrease the parameter values for all automation steps in the visible time range.
- Tap **Presets** and use the buttons to apply the presets to the step automation.

Note: When editing step automation, if a step is not activated, a darkened step bar will indicate the current parameter value at that step, based on the last active step.

List Edit Mode

List Edit Mode has some of the features of Grid View—as well as some additional ones—but with a different interface/workflow.

To enter List Edit Mode, press **Menu** and then tap **List Edit**. You can also tap **List** at the top of the screen in **Arrange Mode** or **Grid View Mode**.



When viewing main **Events** screen, tap the **Tempo** tab at the bottom of the screen to switch to the Tempo screen, where you can add and adjust tempo change events.

The ***Time Counter*** at the top of the screen indicates the current playhead position.

The **TC icon** opens the ***Timing Correct (TC)*** window, which contains various settings to help quantize the note events in your sequence.

Press and hold **Shift** and tap the **TC icon** to enable or disable global timing correct.

The **View** menu lets you select what type of events are shown in the list.

All: Select this option to show all event types.

Notes: Select this option to show only notes.

Aftertouch: Select this option to show only aftertouch messages.

MIDI Automation: Select this option to show only MIDI automation events.

Track Automation: Select this option to show only track automation events.

Pitch Bend: Select this option to show only pitch bend events.

Control Change: Select this option to show only MIDI CC messages.

Program Change: Select this option to show only MIDI program change messages.

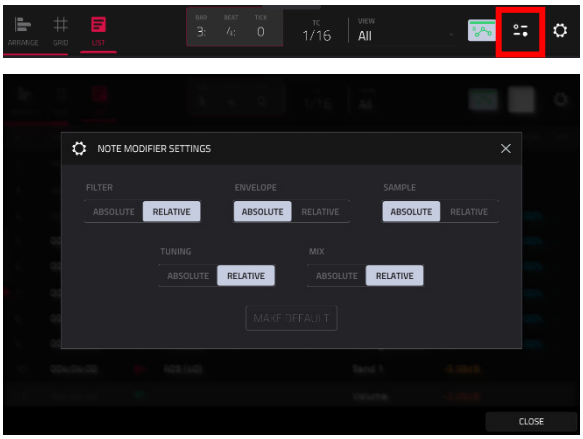
Ch Pressure: Select this option to show only channel pressure messages.

Mute: Select this option to show only mute events for tracks and pads.

MPCe: Select this option to show only MPCe events such as Pad X/Y position.

The **automation button** indicates the global ***Automation*** state.

Tap the **modifier icon** to open the **Note Modifier Settings** window, where you can adjust the modifier playback mode for the following modifier types:



Filter (Cutoff, Resonance, Filter Envelope Amount)

Envelope (Attack, Decay, Release)

Sample (Sample Layer, Sample Slice)

Tuning (Coarse Tuning, Fine Tuning)

Mix (Pan, Level)

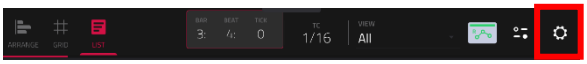
When the modifier type is set to **Absolute**, a note with an active modifier for that type will use the modified value specified by the note event directly, ignoring any values set in Track Edit, Sample Edit, or Pad Mixer which would affect the modifier value, and ignore pad automation that would affect the modified value.

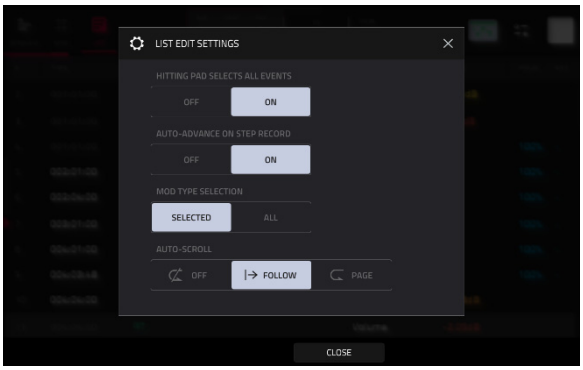
When the modifier type is set to **Relative**, a note with an active modifier for that type will use the modified value as an offset (or scale, in the case of Level) of the existing state, taking into account any values set in Track Edit, Sample Edit, or Pad Mixer which would affect the modifier value, as well as be affected by pad automation that affects the modified value. Relative modifier may be set beyond the limit of the underlying value. For example, a pad with an **Envelope Attack** value of 10 could have a -100 modifier, in which case the note would be played back with an Attack value of 0.

Modifier playback mode settings will save with your project. Tap the **Make Default** button to make the current configuration the default modifier playback mode setting for all new projects. This can be reset using the **Reset Preferences** function in the ***Preferences*** menu.

Note: Legacy MPC projects are loaded with **Sample** and **Envelope** set to **Absolute**, and all other groups set to **Relative**. Envelope modifiers for legacy projects will also *not* ignore automation even despite being set to **Absolute**. This is to ensure the sound of old projects is retained. Interacting with the modifier playback **Envelope** setting in any way will remove this behavior, and from that point the Envelope modifiers will ignore automation as normal.

Tap the **gear icon** to open the List View settings window, where you can configure the following settings:





Use the **Hitting Pad Selects All Events** selector to turn the feature on or off. When **On**, pressing a pad will automatically select all note events for that pad in the selected sequence on that track. When set to **Off**, pressing a pad will simply play its sound without selecting any note events.

Use the **Auto-Advance on Step Record** selector to turn the feature on or off. When set to **On**, pressing a pad when the track is record-armed will move the audio playhead forward by a length determined by the current **Time Division** setting in the ***Timing Correct (TC)*** window. When set to **Off**, pressing a pad when the track is record-armed will not change the audio playhead position.

Use the **Mod Type Selection** field to set whether changing the **Mod Type** changes only the **Selected** event or **All** events of the selected type.

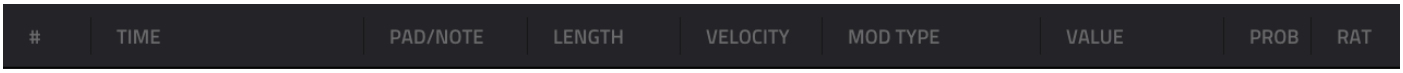
Use the **Auto-Scroll** selector to set how the screen behaves relative to the audio playhead.

Follow: The list will scroll along in the background while keeping the audio playhead centered.

Page: The list will move to the "next page" to follow the audio playhead.

Off: The list will not move at all.

These functions also apply to ***Grid View*** and ***Sample Edit Mode***.



The contents of the sequence will be shown as a list of events, with the following parameters:

#: This is the number of the note event.

Time: This is the position of the note event in bars, beats, and ticks. If multiple note events occur at the same time, additional note events will be listed immediately below, but their **Time** values will be grayed out.

The **Event Type** icon indicates the type of event (e.g., **Note**, **Aftertouch**, **Track Automation**, etc.). See the list of icons below showing the different types of events.

Pad/**Note**: This is the pad and/or corresponding MIDI note number. For drum tracks, you will see the pad number. For keygroup tracks, plugin tracks, and midi tracks, you will see the note.

Length: This is the length of the note event in ticks.

CH: This is the MIDI Channel of the event.

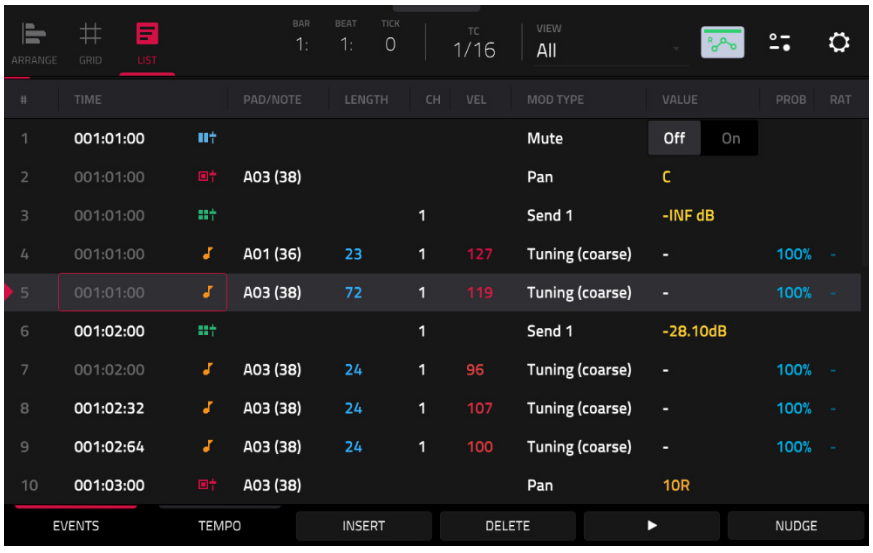
Velocity: This is the velocity of the note event with its corresponding color.

Mod Type: This is the type of modifier used on the note event via automation.

Value: This is the value of the modifier automation.

Prob: This is the probability percentage of the event.

Rat: This is the ratchet value of the event.



The **red arrow** (▶) on the left side of the list represents the audio playhead's current position. If your sequence is playing, the arrow will move accordingly.

The following icons indicate the corresponding types of events:

Note

MIDI Automation (**Volume**, **Pan**, **Mute**, **Solo**)

MIDI CC Automation (**0**–**127**)

MIDI Parameter Automation (**Aftertouch**, **Pitchbend**, **Channel Pressure**, or **Program Change**)

Mixer Automation (**Volume**, **Pan**, **Mute**, **Solo**, or **Send 1**–**4**)

Mixer Parameter Automation (options vary based on the type of track)

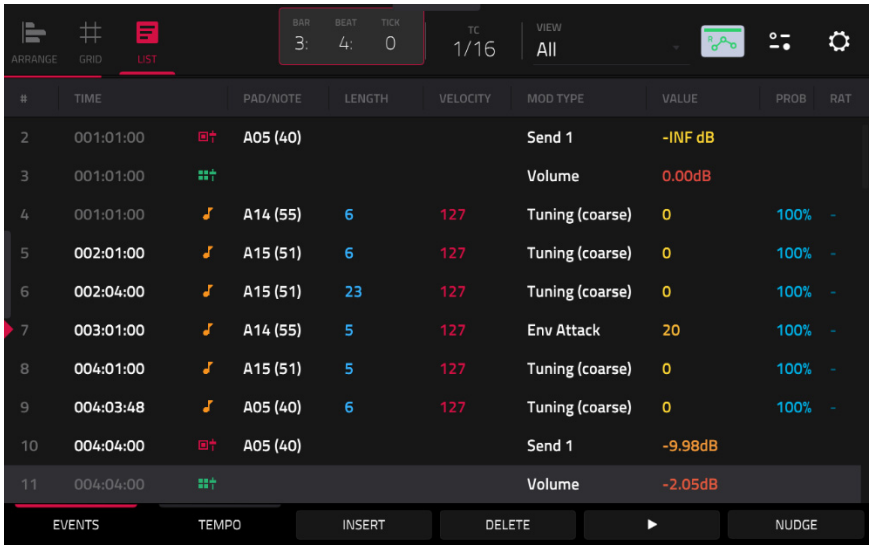
Track Insert Effect Automation (options vary based on the effect)

Pad/Keygroup Mixer Automation (**Level**, **Pan**, **Pad Mute**, **Pad Solo**, or **Send 1**–**4**)

Pad/Keygroup Parameter Automation (options vary based on the type of track)

Pad/Keygroup Insert Effect Automation (options vary based on the effect)

Sequence Tempo Automation

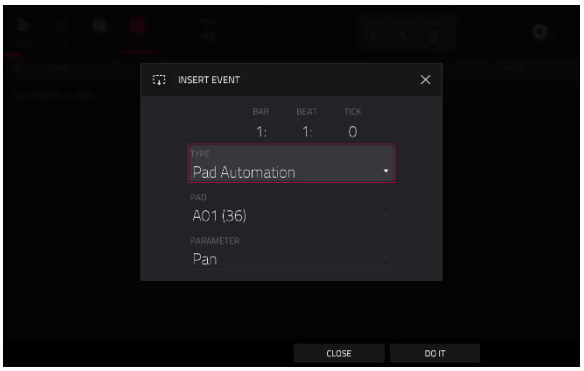


Tap an event to select it. Press and hold **Shift** to select multiple events.

To insert a note event, press **Rec** so the button is lit, and then press a **pad**. A note event will be created at the current location using the pad you pressed. You can keep pressing additional pads, which will continue to insert each press as a single note event in the order you pressed them (similar to a step sequencer). Press **Stop** to exit this function.

Note: Depending on the **Auto-Advance on Step Record** setting, the current time position will either advance each time you press a pad or remain in place. See the earlier description of ***Auto-Advance on Step Record*** to learn about this.

Alternatively, press the **Insert** button at the bottom of the screen to open the **Insert Event** window:



Use the **Bar:Beat:Tick** fields to set the location where you want to add an event.

Use the **Type** field to set what kind of event you would like to add: **Note**, **Pad Automation**, **Mixer Automation** or **MIDI Automation**. When the **Tempo** tab is selected, this field is locked to **Sequence Automation**.

Use the **Pad** and/or **Parameter** fields to set the additional values or settings based on the type of event. When the **Tempo** tab is selected, this field is locked to **Parameter > Sequence Tempo**.

Tap **Do It** to add the event.

Tap **Cancel**, the **X** or anywhere outside the window to close the Insert Event window and return to List Mode.

To edit the Pad/Note, **Length**, **Velocity, Tempo, or numeric Value of an event**, tap the value to select it, and then use the **data dial** or **–/+** buttons to change the value. Alternatively, double-tap it and use the numeric keypad that appears to enter a value (for **Length**, **Velocity**, or numeric **Value** only).

To edit the Length of an event according to your Timing Correct settings, tap the value to select it, and then press and hold **Shift** and use the **data dial** or **–/+** buttons to change the value.

To shift the Pad/Note of an event by pad bank, tap the value to select it, and then press and hold **Shift** and use the **data dial** or **–/+** buttons to change the pad bank.

To turn a Solo/Mute event on or off, tap the desired setting on the **On/Off** switch. Alternatively, tap the **On/Off** switch to select it, and then use the **data dial** or **–/+** buttons to change the value.

To move an event, tap it to select it, tap **Nudge** at the bottom of the screen, and then use the **data dial** or **–/+** buttons to shift the event up or down. Repeat this for other events, or tap **Nudge** again to turn the feature off.

To move an event according to your Timing Correct settings, tap the **Time** value to select it, and then press and hold **Shift** and use the **data dial** or **–/+** buttons to change the value.

To play an event, tap it to select it, and then tap **Play** (▶) at the bottom of the screen. This works with note events only.

To delete an event, tap it to select it, and then tap **Delete** at the bottom of the screen.

Track Edit Mode

Track Edit Mode (formerly *Program Edit Mode*) contains all parameters for editing your Tracks.

To enter Track Edit Mode, do either of the following:

- Press **Menu**, and then tap **Track Edit**.
- Press **Prog Edit** (MPC X, MPC One) or **Edit** (MPC Key 61, MPC Key 37).

For **drum tracks**, this mode includes the parameters of all eight layers as well as all synthesis parameters and insert effect settings. See the ***Drum Tracks*** section to learn more.

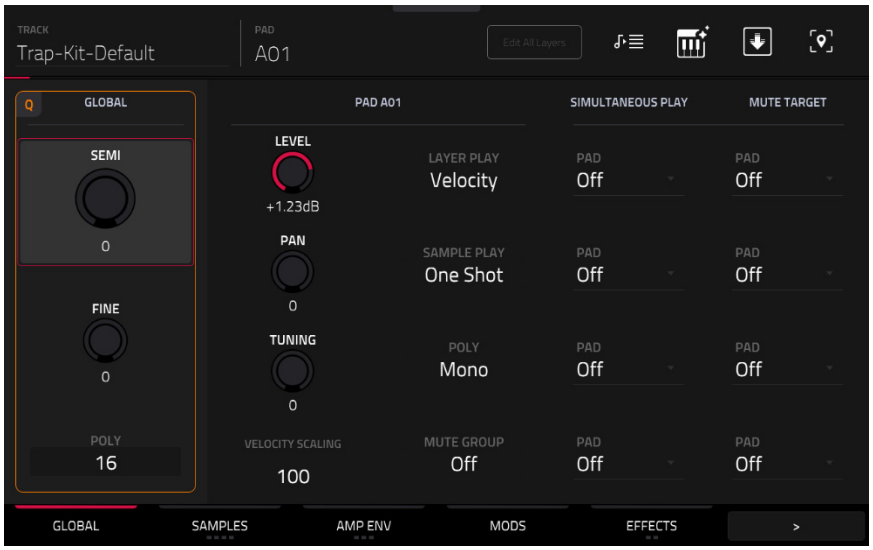
For **keygroup tracks**, this mode contains slightly more parameters than drum tracks. See the ***Keygroup Tracks*** section to learn more.

For **plugin tracks**, skip to ***Plugin Tracks*** to learn more.

For **MIDI tracks** and **CV tracks**, skip to ***MIDI Tracks*** and ***CV Tracks*** to learn more.

Double-tap the **Track** field at the top of the touchscreen to open the **Track Settings** window. To learn more about these settings, and for more general information on the differences between the types of tracks, please see ***General Features*** > ***Tracks***.

Drum Tracks



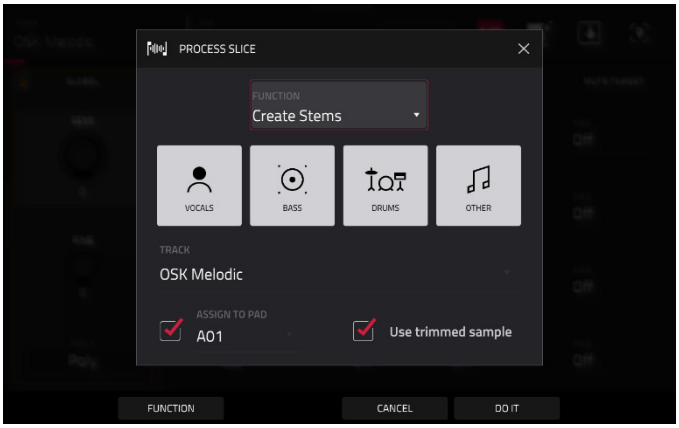
When using drum tracks, Track Edit Mode lets you edit the parameters for each pad.

To select a pad, press it. Its parameters will appear on the screen immediately.

To view a specific tab of parameters, tap the tabs at the bottom of the screen. Tap the **>** or **<** arrows to scroll to view other available tabs. Some tabs such as **Samples** or **Effects** have multiple pages, which can be cycled by tapping the tab multiple times.

Tap the **Edit All Layers** button to enable or disable editing control of all sample layers at the same time. When this is enabled, edits made to sample parameters such as **Start/End** points or **Semi/Fine** tuning on any one layer are automatically applied uniformly to all eight layers at once (even if some layers are empty).

Tap the **Stems** icon to open the Create Stems Function in the Process Sample window. You can use this process to isolate different parts of the sample and separate them into new stem samples.



Click the icons to select or deselect from the following elements to create stems of:

- **Vocals:** Isolate vocal elements of the track into a stem.
- **Bass:** Isolate bass elements of the track into a stem.
- **Drums:** Isolate percussive elements of the track into a stem.
- **Other:** Isolate other musical textures, such as keys or guitars, into a stem.

Use the **Track** dropdown menu to select the track where the stems will be added.

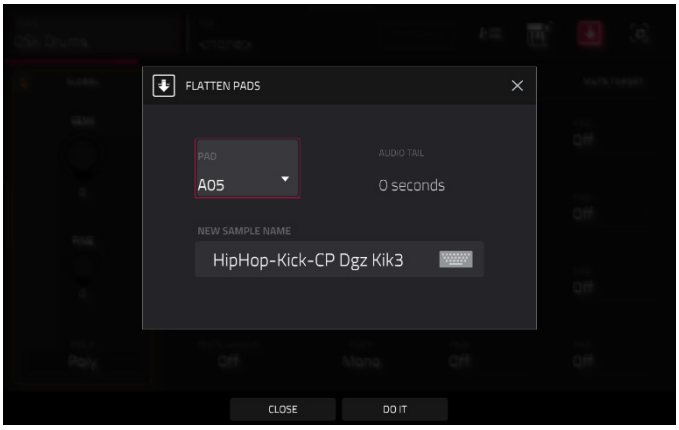
The **Assign to Pad** function determines where the stem separated samples are added. When checked, you can select a pad in the chosen Track using the dropdown menu, and the stems will be added to the first four layers of that pad. When unchecked, the stems will be added to the general project sample pool in the **Project Info** Browser.

Tap the **Use trimmed sample** box to trim the source sample between the **Start** and **End** points before applying the stem separation process.

Note: To purchase MPC Stems, visit **akaipro.com/stems**, and then activate your purchase in the ***Menu > Preferences > Activate Plugins*** menu.

Tap the **keyboard+** icon at the top of the screen to quickly create a keygroup from the selected sample. The new keygroup will be created on a new track and automatically be selected.

Tap the **down-arrow icon** at the top of the screen (next to the **Track** field) to open the **Flatten Pad** window, which renders all samples on a pad as an audio sample and places it on the first layer of that pad.



The resulting sample is the audio signal produced by that pad at full velocity (**127**) after the pad channel strip, which means that it includes any assigned pad insert effects and the results of warping the sample.

This function is useful if you need to reduce how CPU-intensive a pad or track is by essentially “embedding” the warping and effects in the sample itself. By default, it will use the name of the first sample. This function works for drum tracks only.

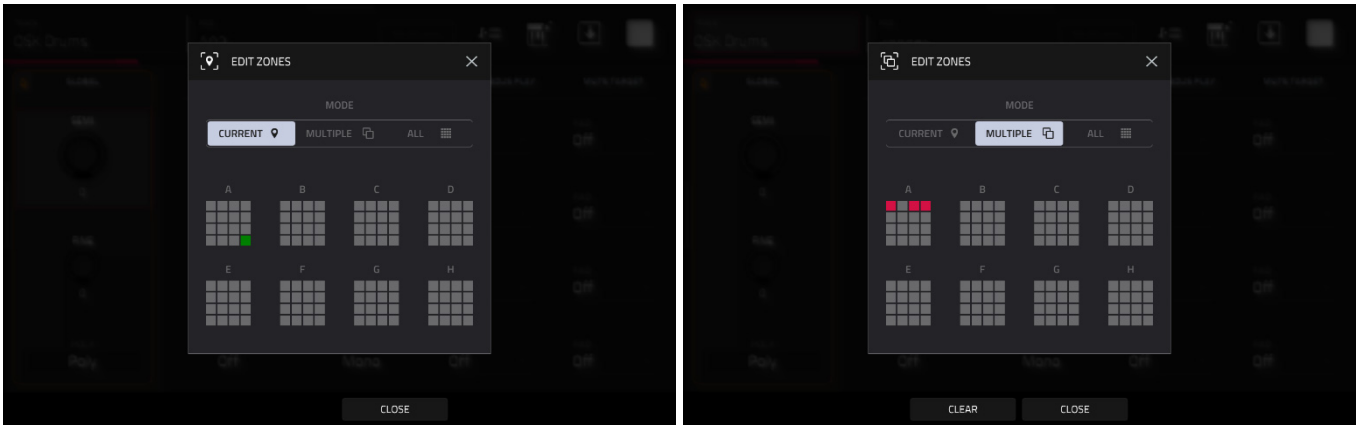
To select the pad, press it or use the **Pad** menu.

Use the **Audio Tail** field to set the length of the audio tail. This will add extra seconds to the end of the resulting audio file. This is useful if you are using effects or samples whose sounds exceed the defined audio length (e.g., long reverb or delay, one-shot samples with long decays, etc.). We recommend using an audio tail of at least a couple of seconds.

Tap the **Edit Name** field and use the virtual keyboard that appears to name the new sample.

Tap **Do It** to confirm your choice.

Tap **Cancel** to cancel and return to the previous screen.



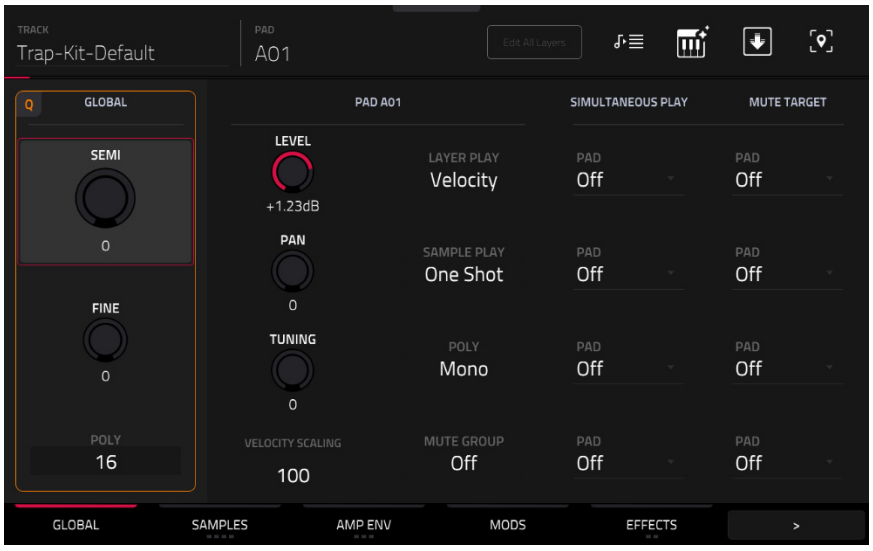
Tap the **location icon** at the top of the screen (on the right side) to open the **Edit Zones** window, which is a feature for drum tracks. This window displays an overview of any selected pads. Use the **Mode** selector to set how the selected pads will be edited:

- **Current**: Only the currently selected pad can be edited.
- **Multiple**: All selected pads can be edited simultaneously.
- **All**: All pads can be edited simultaneously.

To close the window, tap **Close**, the **X**, or anywhere outside the window.

Global

In the Global tab, you can set the playback mode and tuning for the overall Track.



Global Semi lets you transpose the track up to 36 semitones up or down.

Global Fine provides fine-tuning of the track up to 99 cents up or down.

Global Poly (Polyphony) sets the playback mode for the track's pads. In **Mono** Mode, only one pad will sound at a time. If a pad is played while another (or the same one) is still playing its sample/samples, the new pad will immediately mute all other currently playing pads in that track. In **Poly** Mode, several pads can be triggered at the same time (limited only by the total number of voices available).

Level controls the overall volume level of the loaded sample/samples.

Pan controls the overall panning of the loaded sample/samples in the stereo field.

Pad Tuning controls the overall tuning of the loaded sample/samples.

Use the **Velocity Scaling** field to apply scaling to the incoming velocity. For example, if the scaling is set to 50 and the incoming note velocity is 120, the note velocity would be 60 instead.

Use the **Layer Play** selector to determine how multiple samples assigned to the same pad are played:

- **Cycle** (**Cyc**): Each time the pad is played, it will play the next layer's sample. In other words, the samples will cycle through the layers as follows: 1, 2, 3, 4, 1, 2, 3, 4… etc.
- **Velocity** (**Vel**): The pad will switch between layers depending on how hard you press a pad.
- **Random** (**Ran**): Each time the pad is played, it will play one of its layer's samples at random. When selected, the **Random Seed** field displays a value between **1**–**999,999**. You can copy and reuse this value to reproduce the same random sequence.
- **Crossfade:** Crossfade between sample layers using modulation sources like envelopes and LFOs in the **Mod Matrix**, allowing for wave sequencing or vector synthesis-like effects.

Use the **Sample Play** selector to determine how much of the sample is played.

- **One Shot**: The entire sample will play from start to end. Use this when you want to play short sounds.
- **Note Off:** The entire sample will play from start to end after the pad has been pressed and released.
- **Note On**: The sample will play only as long as the pad is held. This is better for longer samples so you can control a sound's duration by pressing and holding its corresponding pad.

Use the **Pad Polyphony** field to determine how the pad's sound behaves when multiple hits are registered. When set to **Mono**, only one pad will sound at a time. If a pad is played while another (or the same one) is still playing its sample/samples, the new pad will immediately mute all other currently playing pads in that track. When set to **Poly**, several pads can be triggered at the same time (limited only by the total number of voices available). You can also select a specific number of pads (**2**–**32**) so that you can trigger up to this many pads at the same time (unless they exceed the total number of voices available).

Use the **Mute Group** field to assign the selected pad to one of the 32 available groups. When pads assigned to the same mute group receive MIDI notes, the last pad played will silence all other pads in that mute group. A mute group affects pads within that track only; mute groups do not affect pads in other tracks.

Tip: This feature is useful for programming realistic hi-hats, so only the open or closed hat is heard.

The **Simultaneous Play** section lets you set up to four pads that can be triggered by pressing one pad only. This function is useful for triggering a stack of sounds (e.g., layered kick drums). Use each **Pad** field to select the desired pad.

The **Mute Targets** tab lets you select up to four pads (in the same track) for the currently selected pad. When the currently selected pad is played, it will immediately silence its mute targets. Use each **Pad** field to select the desired mute target.

Tips:

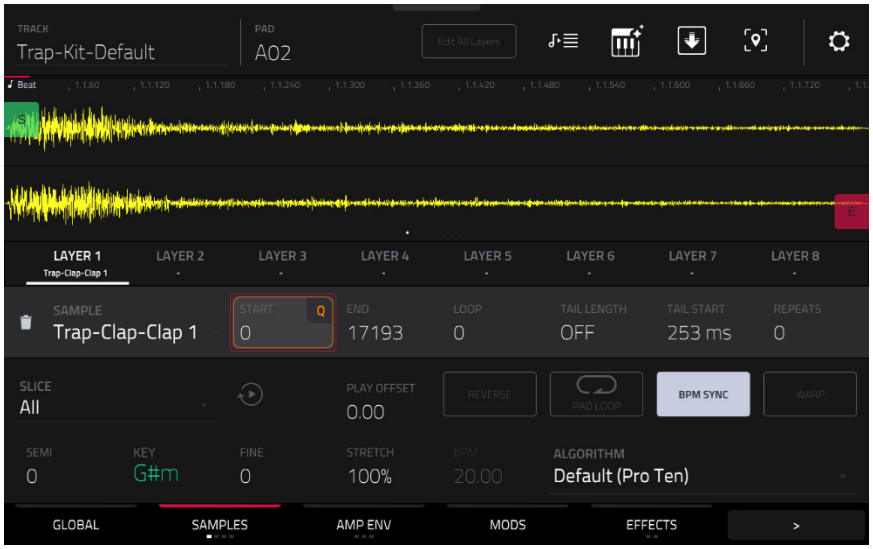
This feature is useful for programming realistic hi-hats, especially if only the open or closed hat should be heard.

This feature is similar to the mute group feature, available for both drum tracks and keygroup tracks.

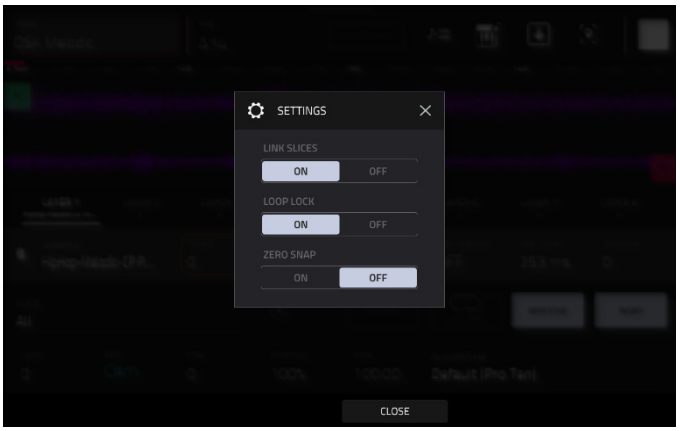
Samples

Each pad can trigger up to eight samples, which are assigned in eight individual layers. Each layer has identical, independently assignable parameters.

Tap **Samples** to cycle through its four available tabs.



You can access the **Settings** window, which lets you configure certain settings in the Samples tab, from any of the four tabs by tapping the **gear icon**.



Use the **Link Slices** selector to set how the start point and end point of a slice in a larger sample is set. You can create these slices in ***Sample Edit Mode > Chop Mode***.

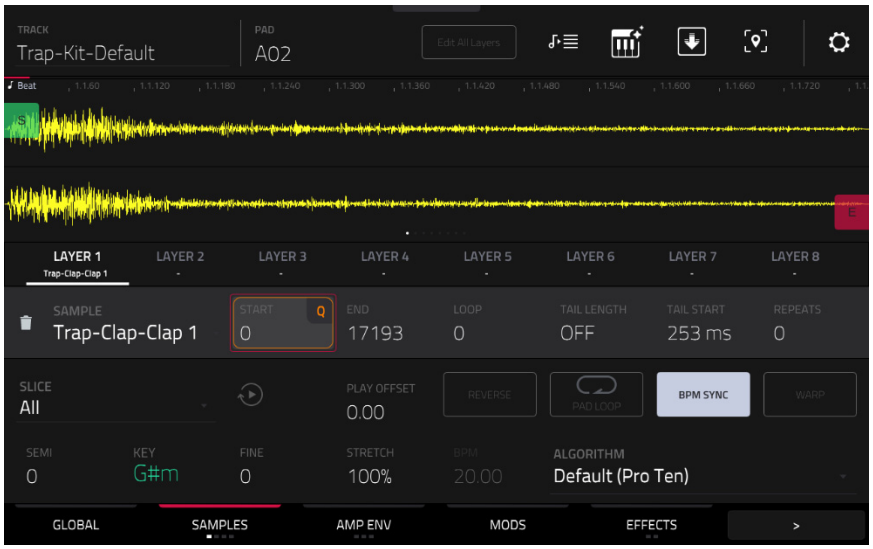
When on, changing the start point of a slice will also change the end point of the previous slice. Similarly, changing the end point of a slice will also change the start point of the next slice. Disable **Link Slices** if you are trying to create slices that use non-contiguous parts of the sample. This is the same as the **Link Slices** button in Sample Edit Mode.

Use the **Loop Lock** selector to “link” or “unlink” the loop point from the start point. When on, the loop point is the same as the start point. When off, the loop point is independent from the start point and indicated by a separate loop marker. This is the same as the **Loop Lock** button in Sample Edit Mode.

Use the **Zero Snap** selector to enable or disable the Zero Snap feature, which forces start points, end points, and loop points to occur only at the waveform’s “zero-crossings.” This can help to avoid clicks and glitches when playing a sample. This is the same as the **0 Snap** button in Sample Edit Mode.

To close the Settings window, tap **Close**, the **X** in the upper-right corner, or anywhere outside the window.

The **first Samples** tab contains the sample waveform for each layer and controls for its pitch, timing, and playback.



The upper half of the screen shows the waveform of the sample on the currently selected layer. The lower half shows the editing controls.

The waveform display shows the “active” section of the sample waveform. Swipe left or right on the waveform to move through it.

Above the waveform is the timeline, shown in bars, beats, and ticks.

Use the bottom-most **Q-Link knob** in the fourth bank to zoom in or out of the sample waveform.

Tap each layer number (**Layer 1**–**8**) under the waveform to select it. When selected, its sample waveform will be shown in the upper half of the screen and its settings will be shown in the lower half.

Use the **Sample** field to select the sample file for that layer. Remember that the sample has to be loaded into the project’s sample pool beforehand. For information on how to load samples into a project, please see the ***Browser*** chapter.

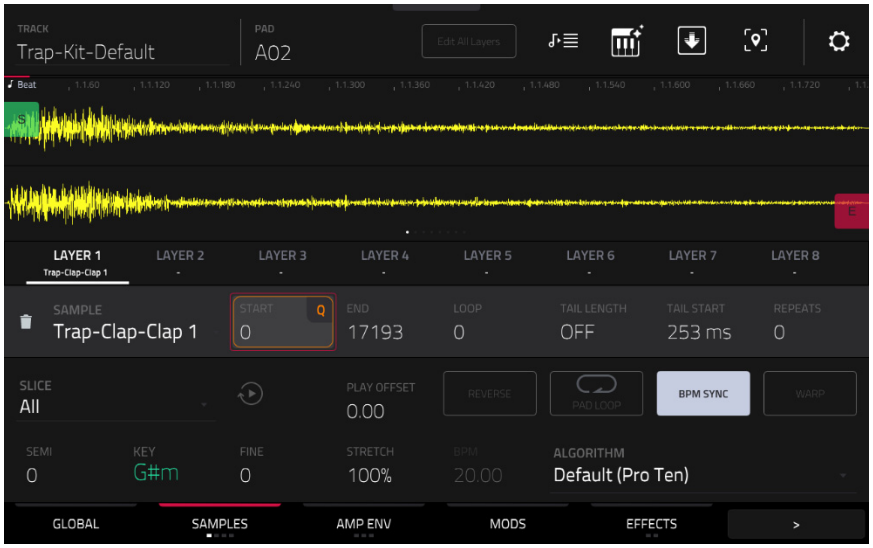
Important: The parameters in the **Samples** tabs work in conjunction with Chop Mode (in ***Sample Edit Mode***). Here’s how it works:

When working in Sample Edit Mode and using Chop Mode to divide a sample into slices for your pads, you can convert a slice using **Non-Destructive Slice** or **Pad Parameters**.

A **Non-Destructive Slice** will let its pad to refer to that slice when you press it; the original sample remains intact, and each slice marker is like a “bookmark” for a pad. In Track Edit Mode, you’ll see that the pad/layer to which it’s assigned has its **Slice** drop-down menu set to the corresponding **slice number** in the original sample. Playing that pad will cause it to refer to that slice marker like a “bookmark” instead of creating an entirely new sample of that slice. This means that you no longer have to clutter your project with a new sample for every slice (though you can still use this earlier method, if you prefer).

A slice converted using **Pad Parameters** is very similar to a non-destructive slice described above. The difference is that in Track Edit Mode, the pads/layers they’re assigned to have their **Slice** drop-down menus set to **Pad** (instead of the slice number), and the **start** and **end points** will correspond to the slice markers in the original sample.

Tap the **trash can icon** next to the sample field to remove the file from the layer.



The **green**/**S** marker and **red**/**E** marker are the start point and end point (respectively). These two points define the region of the sample that will be played.

To move the start point or end point, do any of the following:

- Tap and drag the **S** or **E** marker left or right.
- Use the **Start** or **End** fields shown below the waveform.
- When the **Q-Links** are set to **screen** mode, you can use them to adjust the start and end points in fine and coarse adjustments. For MPC hardware with four Q-Links, the first bank adjusts the start point, and the second bank adjusts the end point.

Note: When **Loop Lock** is on, the loop position (as determined by the **Loop** field, if enabled) is the same as the sample's start point. When off, the loop position is independent from the start point.

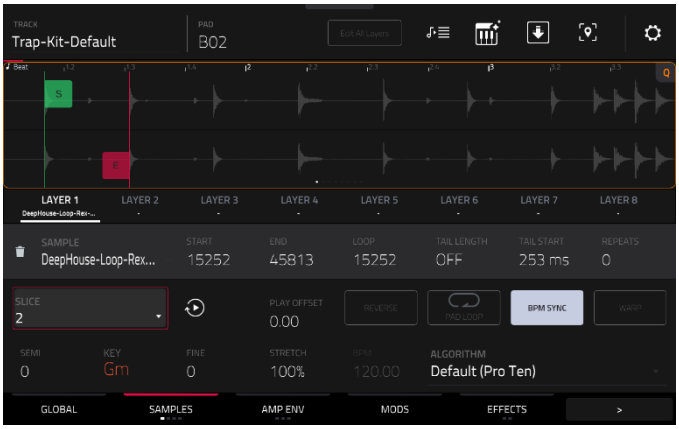
Use the **Loop** field to determine the position where the sample's playback will repeat when **Pad Loop** is activated.

Note: When **Loop Lock** is on, the loop position is the same as the sample's start point. When off, the loop position is independent from the start point.

Use the **Tail Length** and **Tail Start** fields to add adding extra audio tail to any chopped sample. This is useful for things like making an abrupt end to a sample sound more natural or adding experimental looping effects to a sample. The **Tail Length** parameter enables the sample tail and set its total length, and the **Tail Start** parameter sets the starting point within the tail for looping.

Use the **Repeats** field to set a sample to play a specified number of times. First make sure **Pad Loop** is set to **On**, then use this field to set the number of times you want to have the sample loop between the Sample Loop and End points. For example, a value of 4 would repeat the selected area of the sample 4 times.

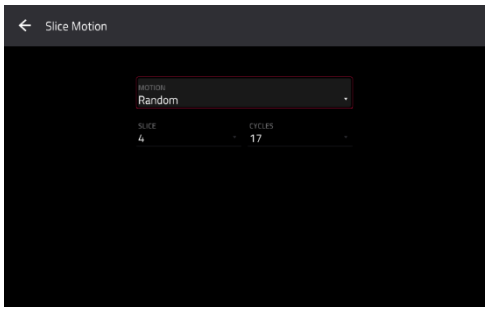
Note: The behavior difference between Repeats set to 0 and 1 is only evident when a Pad's Sample Play parameter is set to **Note On**. Then, when hold a note, a Repeat value of 0 will create infinite repeats, and a value of 1 will play a sample one time through.



Use the **Slice** field to select what part/parts of the sample will play:

- **All**: The entire sample will play.
- **Pad**: The sample will play from the **Pad Start** position to the **Pad End** position, described ***earlier***. This also lets you activate ***Pad Loop*** (if the **Sample Play** field in the **LFO Modulation** tab is set to **Note On**).
- **Slice 1, 2, 3, etc.**: If you have sliced the sample in Chop Mode, you can select which slice will play when you trigger the pad.

When **Slice** is selected, you can tap the **Slice Motion** icon to trigger a different sample slice each time a pad is played.



Use the **Motion** setting to select **Increment**, which increments the slice number with each new note event, or **Random**, which plays your slices in a random order.

Use the **Slice** field to set the starting slice.

Use the **Cycles** field to select how many of the slices are played.

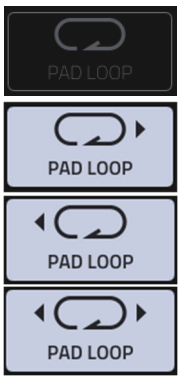
Tap the pad repeatedly, or turn **Note Repeat** on and hold the pad, to hear the slices of your chopped loop play.

Use the **Play Offset** field to shift a sample window between the **Start**, **End**, and **Loop** points across the sample without altering their relative positions. For example, if you set these points to frame the first 1/16th note of a one-bar sample, you can use the **Play Offset** to shift that window to different 1/16th note positions within the sample. You must retrigger the sample to hear offset changes.

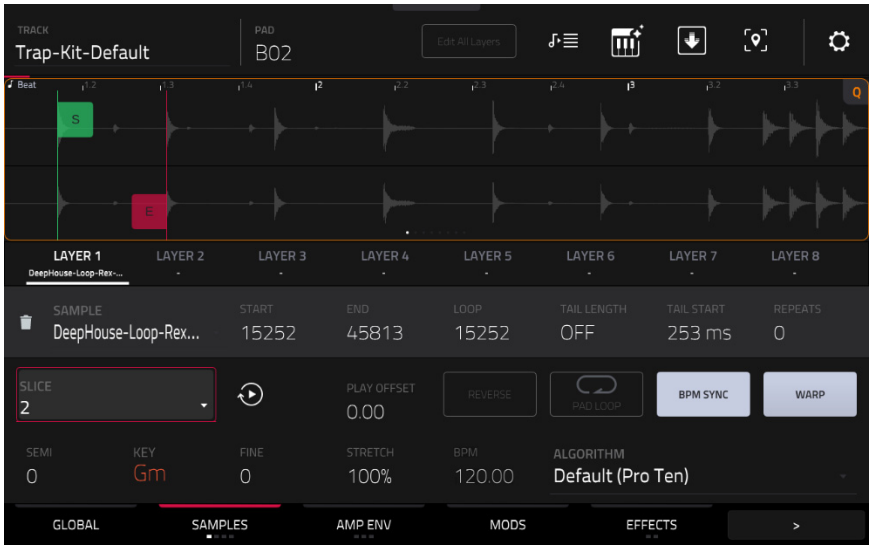
Use the **Reverse** button to select in which direction the sample will play. When on, the sample will play in reverse. When off, the sample will play in the normal forward direction.

Use the **Pad Loop** button to cycle through the available Pad Loop modes.

Important: For Pad Loop to work, you must (**1**) set the **Sample Play** field (in the **Global** tab) to **Note On** instead of One Shot and (**2**) set the **Slice** field (in the first **Samples** tab) to **Pad** instead of All or a slice number.



- **Off**: The sample will not loop.
- **Forward**: You can hold down the **pad** to cause that sample to repeat from the **Loop Position** to the end of the sample. Release the **pad** to stop the repeating playback.
- **Reverse**: You can hold down the **pad** to cause that sample to play in reverse, repeating from the end of the sample to the **Loop Position**. Release the **pad** to stop the repeating playback.
- **Alternating**: You can hold down the **pad** to cause that sample to play from the **Loop Position** to the end of the sample and then play in reverse until it reaches the **Loop Position** again. This will repeat as long as you are holding the pad down. Release the **pad** to stop the repeating playback.



Tap **BPM Sync** to enable or disable BPM Sync.

When BPM Sync and **Warp** are both enabled, the sample's BPM will be "locked" to the tempo of the project.

When BPM Sync is disabled but **Warp** is enabled, the sample will be independent of the tempo of your project—use the **Stretch** field to lengthen or shorten a sample.

Tap **Warp** to enable or disable warping of the sample.

When enabled, lengthening or shortening the sample (based on the BPM) will not change its pitch.

When disabled, lengthening or shortening the sample will also change its pitch and vice versa.

Note: The Warp algorithms are very CPU-intensive and can result in audio drop-outs during playback if used too freely. Be mindful of how (and how often) you use the warp function. You can reduce the CPU resources required by doing any/all of the following:

- Avoid using extreme **Stretch** values.
- Minimize the amount of pitch adjustment (e.g., the **Semi** and **Fine** parameters) of warped audio.
- Avoid warping very small sample regions.
- Warp as few samples or sample regions as possible (i.e., reduce the number of total number of voices of the polyphonic limit that use the Warp algorithm at a given time), especially instances where the warped regions start at the same time.
- Avoid rapidly triggering samples that are warped.
- If you have warped samples used in a drum kit, consider using the **Flatten Pad** function to consolidate the affected pad's layers into one audio sample (see ***here*** to learn about this). After you flatten the pad, its sample/samples no longer need to be warped.

Semi lets you transpose the selected layer up to 36 semitones up or down. This will affect the length of the sample (if **Warp** is off). This is the same as the **Semi** knob on the second Samples tab. The analyzed **Key** of the sample is displayed next to the **Semi** field and will adjust based on this value.

Fine provides fine-tuning of each layer by cents. This will affect the length of the sample (if **Warp** is off). This is the same as the **Fine** knob on the second Samples tab.

Use the **Stretch** field to set the "stretch factor," which affects how the sample is warped (if **Warp** is on).

Use the **BPM** field to enter a tempo, which affects how the sample is warped (if **Warp** is on).

Use the **Algorithm** field to select the audio warp algorithm for the sample: **Default**, **Pro Ten**, or **Repitch**. The **Default** algorithm can be set in the ***Preferences > Audio/Export*** menu.

Note: Changing the Algorithm setting here will override the Preferences setting.

The **second Samples** tab (**Tune/Mix**) contains controls for its pitch, volume level and panning.

Tap the **Layer 1–4/Layer 5–8** button to toggle between visible layers.

Use the **Sample** field to select the sample file for that layer. Tap the **trash can icon** next to the sample field to remove the file from the layer.

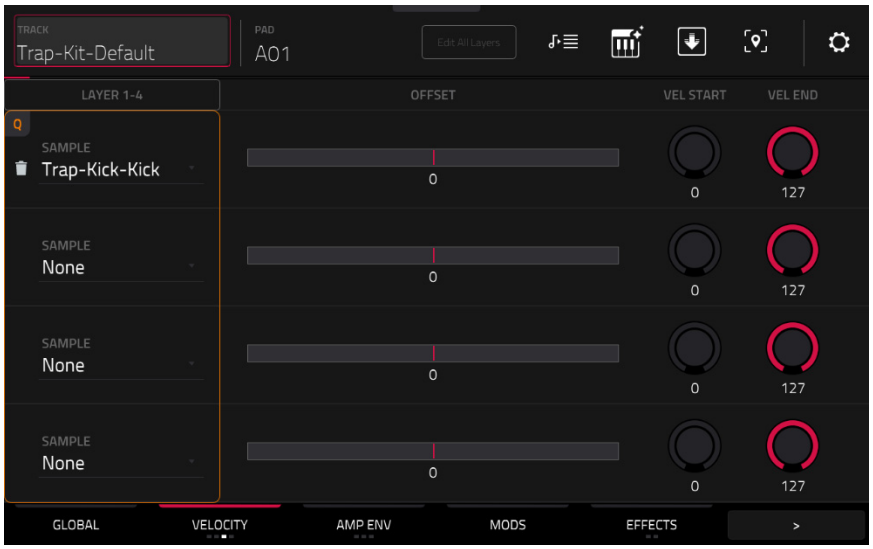
Semi lets you transpose the selected layer up to 36 semitones up or down. This will affect the length of the sample (if **Warp** is off). This is the same as the **Semi** field on the first Samples tab.

Fine provides fine-tuning of each layer by cents. This will affect the length of the sample (if **Warp** is off). This is the same as the **Fine** field on the first Samples tab.

Level lets you adjust each layer's volume, letting you control the "balance" of the samples assigned to the pad.

Pan adjusts the stereo placement of the respective layer.

The **third Samples** tab (**Velocity**) contains the control for its offset and velocity range.



Tap the **Layer 1–4/Layer 5–8** button to toggle between visible layers.

Use the **Sample** field to select the sample file for that layer. Tap the **trash can icon** next to the sample field to remove the file from the layer.

Use the **Offset** slider to determine a time offset for the sample's playback.

- **Positive values** (right of center): When the pad is played, playback will start immediately but at a later point in the sample specified by the offset value.
- **Negative values** (left of center): When the pad is played, playback will be delayed by the amount specified by the offset value.

Use the **Vel Start** and **Vel End** knobs to define the velocity range of each layer.

A range from **0** to **127** lets the layer respond to the entire velocity range which is input from the respective pad while, for example, a range from **100** to **127** lets the layer respond only to higher velocity levels. By assigning several samples of one instrument, you can create a realistic-sounding "multi-sample" by adjusting the velocity ranges of each layer accordingly.

For example, you may have three samples of a drum hit with low force, medium force, and high force. You can set each sample to a layer and set the Velocity ranges so only low velocities trigger the low-force sample, only mid-range velocities trigger the medium-force sample, and only high velocities trigger the high-force sample.

The **fourth Samples** tab (**Random**) contains the controls for adding randomization to sample parameters such as pitch, level and panning.

Tap the **Layer 1–4/Layer 5–8** button to toggle between visible layers.

Use the **Sample** field to select the sample file for that layer. Tap the **trash can icon** next to the sample field to remove the file from the layer.

Use the **Pitch** knobs to adjust the amount of randomization applied to each sample layer's pitch.

Use the **Level** knobs to adjust the amount of randomization applied to each sample layer's volume.

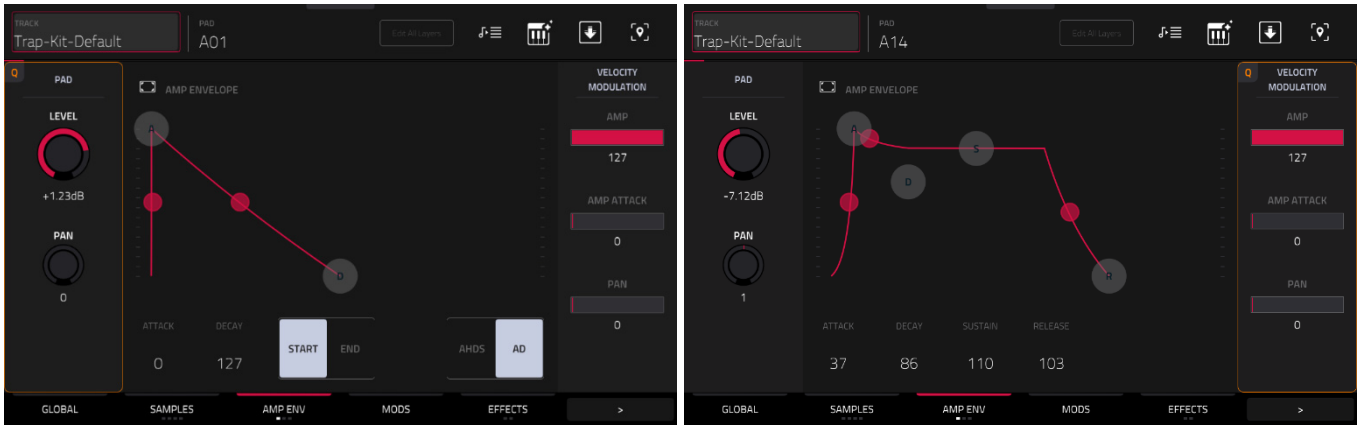
Use the **Pan** knobs to adjust the amount of randomization applied to each sample layer's stereo placement.

Use the **Offset** sliders to adjust the amount of randomization applied to each sample layer's time offset.

The **All Layers** section will apply randomization to all sample layers for the following envelope parameters: **Attack**, **Decay**, **Cutoff** and **Resonance**. Use the **Depth** slider to control the amount of envelope randomization applied overall.

Envelopes

Tap **Envelopes** to cycle through its three available tabs.



The **first Envelope** tab contains the amplitude modulation envelope.

Pad Level controls the overall volume level of the loaded sample/samples.

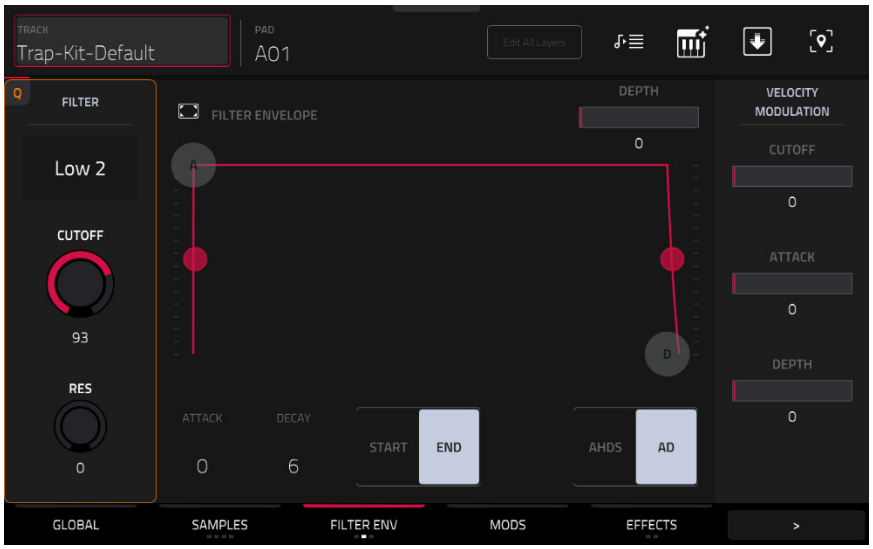
Pad Pan controls the overall panning of the loaded sample/samples in the stereo field.

The **Amp Envelope** controls affect level changes over time. Use the fields or tap and drag the “handles” of the envelope to shape the envelope or time-variant modulation output. Adjust the envelope’s influence on the filter frequency with the **Env** knob. See the later ***Anatomy of an Envelope*** section to learn about the envelope parameters.

The **Velocity Modulation** controls determine how much the velocity affects the volume level of the amplitude envelope (**Amp**), the attack of the amplitude envelope (**Amp Attack**), and/or the panning of the sound (**Pan**).

When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding slider.

The **second Envelope** tab contains the filter modulation envelope.



Use the **Type** field to select a filter for the selected pad. See ***Appendix*** > ***Glossary*** > ***Filter*** for an explanation of the available filter types.

Use the **Cutoff** knob to set the cutoff frequency for low-pass and high-pass filter types or the center frequency for band-pass and band-stop filter types.

Use the **Reso** knob to set the resonance/emphasis of the frequencies around the cutoff point.

Tip: Use values lower than **80** to give more brilliance to the sound. At values higher than **80**, the sound will result in a strong audible boost around the cutoff frequency.

The **Filter Envelope** controls affect the filter frequency. Use the fields or tap and drag the “handles” of the envelope to shape the envelope or time-variant modulation output. Adjust the envelope’s influence on the filter frequency with the **Depth** knob. See the later ***Anatomy of an Envelope*** section to learn about the envelope parameters.

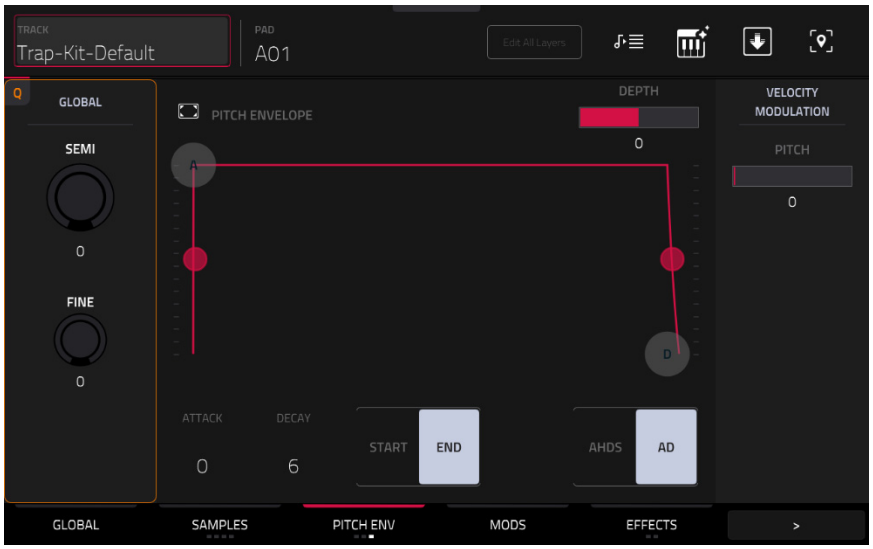
Use the **Depth** slider to determine the amount of influence the filter envelope has on the cutoff frequency. Higher settings will increase the modulation of the filter by the envelope; lower settings will result in only subtle changes of the filter **Cutoff** over time.

Tip: **To give a sound a more distinctive attack**, increase the **Depth** setting and set low **Atk** and **Decay** values as well as a medium-low **Sust** value of the **Filter Envelope**. This will start a sound with the filter opened and close it shortly afterward, giving it a bright start followed by a darker sustain. String sounds, on the other hand, can sound much more “alive” with low **Depth** settings and a high **Atk** value, resulting in a slight fade-in of the higher frequencies.

The **Velocity Modulation** controls determine how much the velocity affects the cutoff frequency of the filter envelope (**Cutoff**), the attack phase of the filter envelope (**Attack**), and/or depth of influence the filter envelope has on the cutoff frequency (**Depth**).

When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding slider.

The **third Envelope** tab contains the pitch modulation envelope.



Global Semi lets you transpose the pad up to 36 semitones up or down. This will affect the length of the sample (if **Warp** is off). This is the same as the **Semi** field on the **Global** tab.

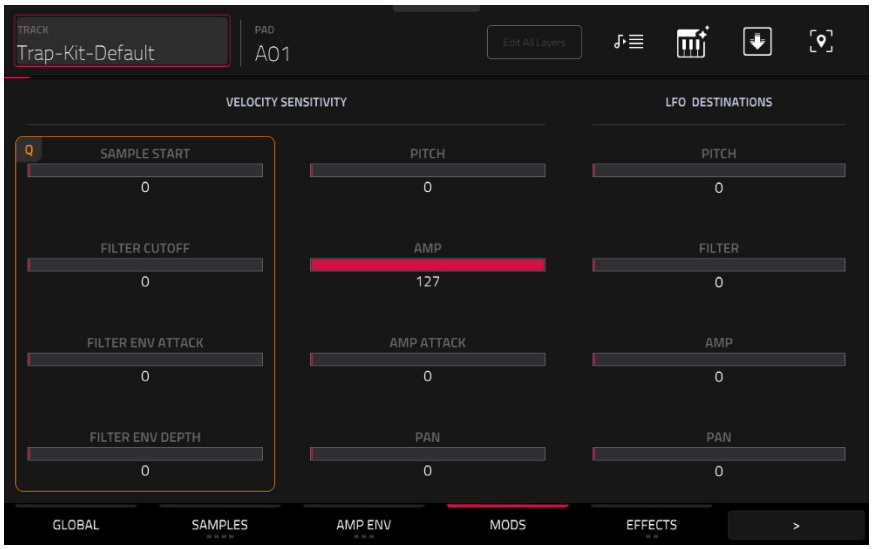
Global Fine provides fine-tuning of each layer by cents. This will affect the length of the sample (if **Warp** is off). This is the same as the **Fine** field on the **Global** tab.

The **Pitch Envelope** controls affect the pad's pitch. Use the fields or tap and drag the "handles" of the envelope to shape the envelope or time-variant modulation output. Adjust the envelope's influence on the pitch with the **Depth** slider. See the later ***Anatomy of an Envelope*** section to learn about the envelope parameters.

The **Velocity Modulation** control determines how much the velocity affects the pitch envelope (**Pitch**).

When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the **Pitch** slider.

Mods (Modulations)



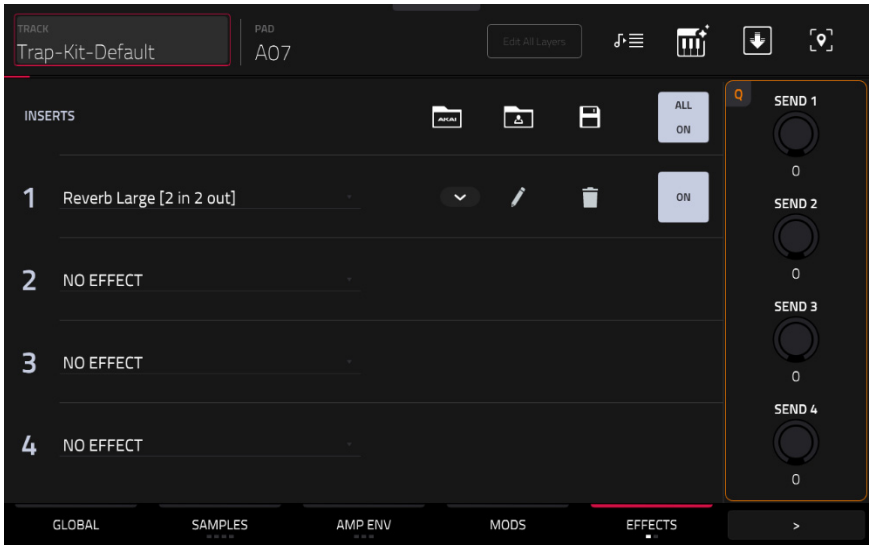
Use the **Velocity Sensitivity** sliders to set how much velocity is required to modulate certain other parameters:

- **Sample Start** sets how much velocity is needed (for a triggered pad) to modulate the sample start point.
- **Filter Cutoff** uses the velocity of a pad to modulate the cutoff frequency directly.
- **Filter Env Attack** sets how much velocity is needed (for a triggered pad) to modulate the Attack phase for the Filter envelope.
- **Filter Env Depth** enables velocity information to control the amount of the filter envelope's effect on the cutoff frequency.
- **Pitch** uses the velocity of a pad to modulate the sample pitch.
- **Amp** uses the velocity of a pad to change the sample level. Lower this value to reduce the effect of velocity on the amplitude.
- **Amp Attack** sets how much velocity is needed (for a triggered pad) to modulate the Attack phase for the Amp envelope.
- **Pan** uses the velocity of a pad to control the stereo panning.

Use the **LFO Destinations** sliders to determine how much the LFO affects the pitch of the sound (**Pitch**), the cutoff frequency of the filter (**Filter**), the volume level of the sound (**Amp**) and panning of the sound (**Pan**).

Effects

Tap **Effects** to cycle through its two available tabs.



Inserts

In the first Effects tab, you can select up to four insert effects for each pad. To learn how to use insert effects, please see ***General Features*** > ***Effects*** > ***Insert Effects***.

To add an effect:

1. Double-tap the desired **Inserts** slot. A list of effects will appear.
2. Swipe up or down to move through the list.

   You can tap the **Type** and **Manufacturer** buttons to sort your effects by those categories.
3. **To load an effect, double-tap it**, or tap **Select**.

   To close the list, tap **Close**.

Tap the **Akai folder** icon to load a factory FX rack. You can choose from a number of preset combinations of insert effects by applications like Drums and Percussion, Voice, LoFi, Mastering, and more.

Tap second **folder** icon to load a saved FX rack.

Tap the **disk** icon to save an FX rack.

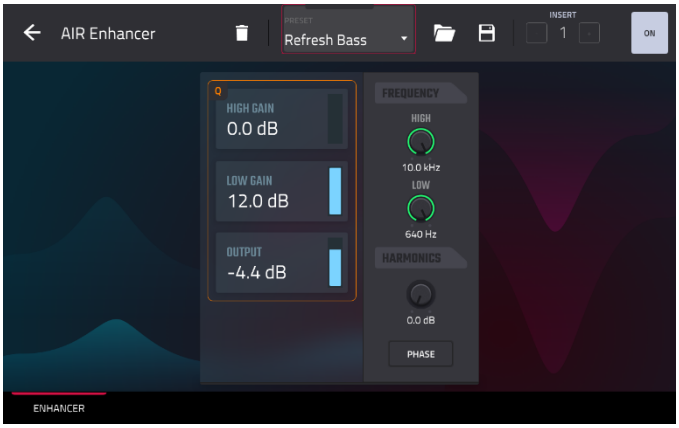
Tap the **All On**/**Off** button in the upper-right corner to enable or disable all four insert effects.

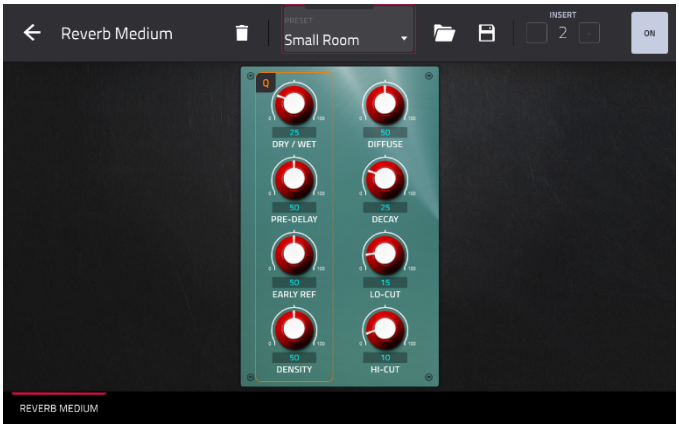
Tap the **arrows** next to the insert slot to rearrange an insert effect. Adjacent effects will be moved up or down in relation.

Tap the **pencil icon** to adjust the effect's parameters. Use the controls to set the value of each parameter. These values affect only this instance of the effect; insert effects are not global.

Tap the **trash can icon** to remove an effect from its slot.

Tap the **On**/**Off** button for the slot to enable or disable the effect.





Tap the **trash can icon** to remove the effect from its slot.

Tap the **folder** icon next to the preset name at the top of the display to open the file browser and load an effect preset.

Tap the **disk** icon next to the insert selector at the top of the display to save a new effect preset.

Tap the **-/+** buttons to rearrange the insert effect. Adjacent effects will be moved up or down in relation.

Tap the **On/Off** button to enable or disable the effect.

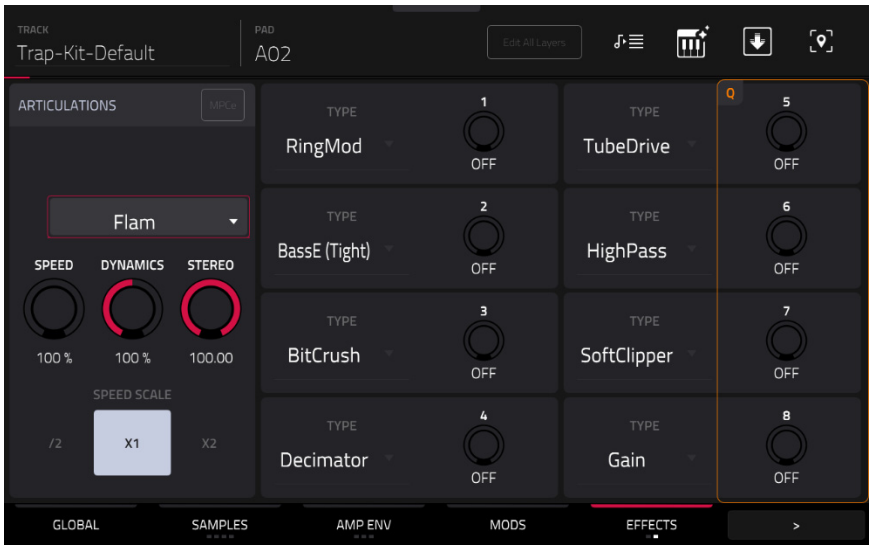
Sends

The audio of the pad will be routed to send effects (if you have any loaded) at their designated send levels. The return channels will then send the audio to an assigned main output at the designated return levels.

Use the **Send** knobs to set the volume level of the signal the pad will route to each send effect.

Important: To learn about send effects, please see ***General Features*** > ***Effects*** > ***Send/Return Effects***.

The **second Effects** tab contains controls for **Articulations** and **Drum FX**.



The **Articulations** section lets you apply variable drum articulations and rudiments like flams, paradiddles, and other dynamic phrases.

Tap the **MPCe** button to enable MPCe articulation control. This allows you to assign up to four different articulations to the four corners of a pad for dynamic articulation switching. When enabled, tap the **1**–**4** buttons below to select each pad quadrant. MPCe values can be input as automation for a pad.

Tap the dropdown menu to select the type of articulation applied to the pad or pad quadrant. Articulations are grouped into eight categories: **Default Articulations**, **Standard Rudiments**, **Dotted Rudiments**, **Triplet Rudiments**, **Rolls**, **Pitched Rolls**, **Metric Rudiments**, and **Note Repeats**.

Use the **Speed** knob to adjust the length of the articulation (**25**–**400%**). You can also use the **Speed Scale /2**, **x1**, and **x2** buttons to quickly modify the set articulation speed.

Use the **Dynamics** knob to apply velocity modulation to the articulation (**0**–**200%**).

Use the **Stereo** knob to adjust the stereo spread of the articulation (**0**–**100%**).

The **Drum FX** section lets you add and control up to eight additional, simplified effects per pad in a Drum track.

Use the **Type** dropdown menu to select the effect in each slot:

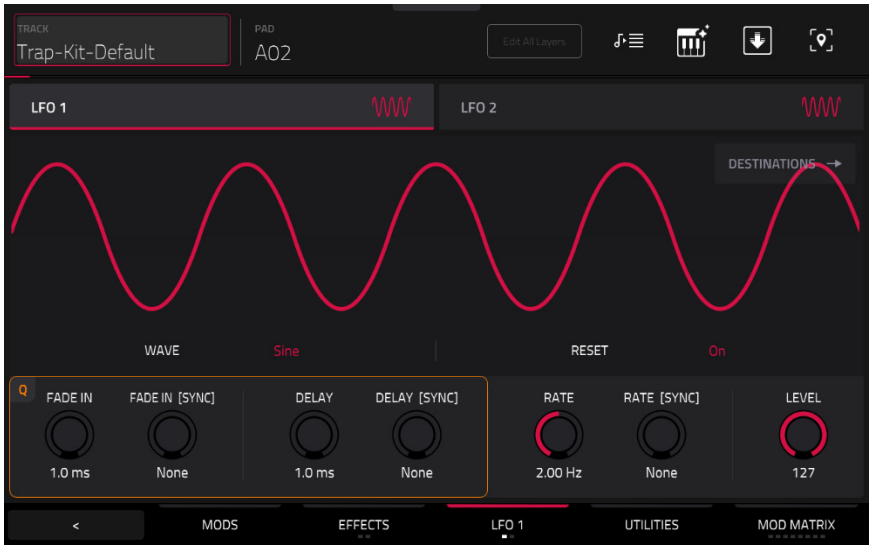
- Ring Mod
- Bit Crush
- Decimator
- Tube Drive
- Soft Clipper
- Hard Clipper
- Low Pass
- High Pass
- Rectifier
- Bass Enhancer (Tight)
- Bass Enhancer (Medium)
- Bass Enhancer (Wide)
- Wave Folder
- Gain

Use each knob to adjust the selected effect parameter.

LFO

Tap **LFO** to cycle between the **LFO 1** and **LFO 2** controls. You can also tap the **LFO 1** and **LFO 2** headers to toggle between them.

A low-frequency oscillator (LFO) generates a periodic waveform with an adjustable frequency and shape which can be used for modulation purposes.



Use the **Wave** field to select the LFO waveform type:

- **Sine**: Best suited for smooth modulations.
- **Tri** (Triangle): Best suited for smooth modulations.
- **S&H**: Samples a random value and holds it until the next value is generated.
- **Saw:** Can generate interesting filter or volume changes.
- **SawD** (Saw Down): Can generate interesting filter or volume changes.
- **Sqr** (Square): Interesting results with hard-panning modulations.
- **Noise**: Generates random values and glides.

Use the **Reset** field to determine whether the LFO retriggers on each note played (**On**) or not (**Off**).

Use the **Fade In** knob to set the length of time for the LFO to reach full level once triggered.

Use **Fade In [Sync]** to synchronize the fade in with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the fade in length is determined by the **Fade In** knob.

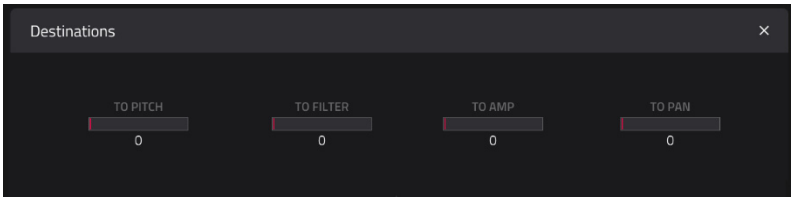
Use the **Delay** knob to set the length of time between when the note is triggered and when the LFO is triggered.

Use **Delay [Sync]** to synchronize the delay time with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the delay length is determined by the **Fade In** knob.

Use the **Rate** knob to determine the LFO frequency. At lower values, it might take some time for the LFO to complete a cycle, while higher values will come closer to audible range.

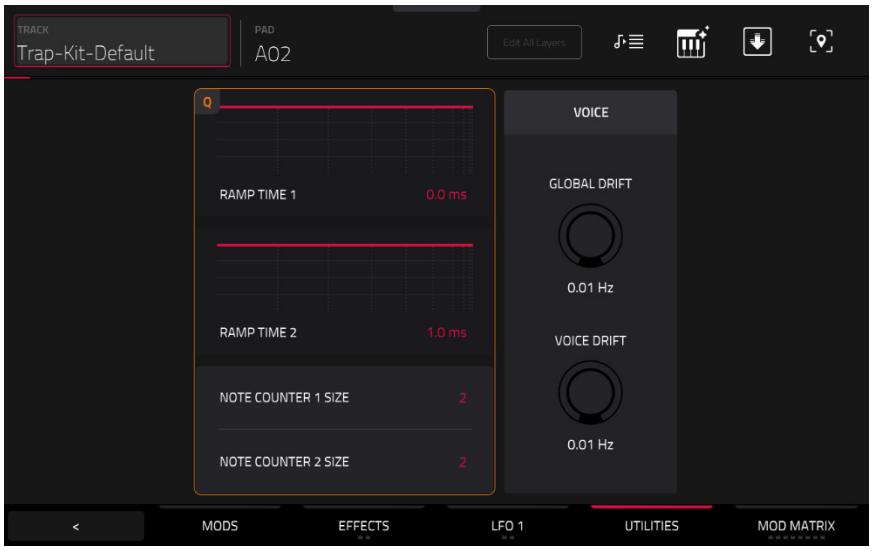
Use **Rate [Sync]** to synchronize the LFO's rate with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the frequency is determined by the **Rate** knob.

Use the **Level** knob to set the overall amount of modulation applied by the LFO. At lower values, the modulation is more subtle, and at higher values it is more extreme.



Tap the **Destinations** → button in the LFO window to display the **Destinations** sliders. Use these sliders to determine how much the LFO affects the pitch of the sound (**Pitch**), the cutoff frequency of the filter (**Filter**), the volume level of the sound (**Amp**) and panning of the sound (**Pan**).

Utilities



Use the **Ramp Time 1/2** fields to adjust the ramp length. These can be used to apply additional modulation shaping to other parameters via the ***Mod Matrix***.

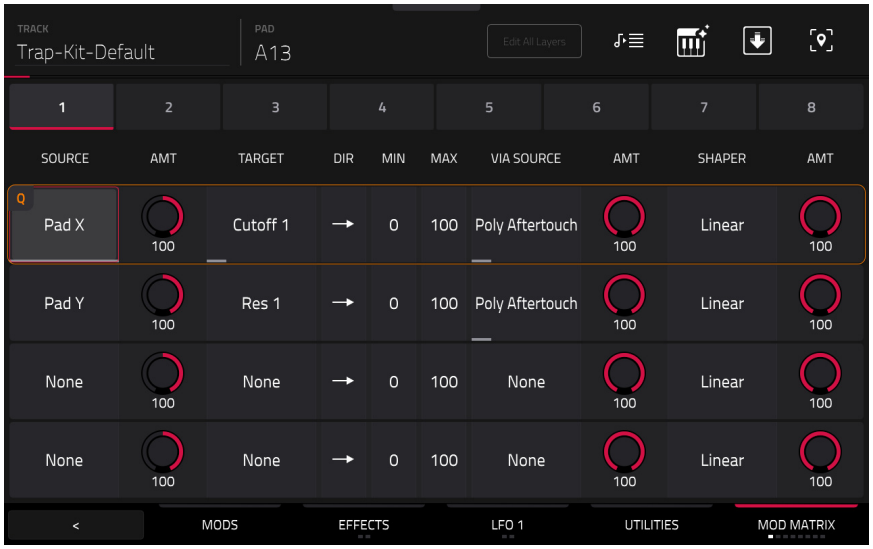
Use the **Note Counter 1/2 Size** fields to set stepped modulation values. These can be used as part of the ***Mod Matrix*** to change parameter values based on the number of voices selected (**2**–**64**).

The **Voice** section allows you to add additional free running LFOs which can be used for subtle modulations in the ***Mod Matrix***. Use the **Global Drift** knob to set the amount of drift applied to the entire drum track, or use the **Voice Drift** knob to set the amount of drift applied to the selected pad.

Mod Matrix

Tap the **Mod Matrix** tab to cycle through its eight available tabs. Alternatively, tap the numbered headers below the toolbar to select that tab.

The 32 available modulation points can be configured to add a wide variety of sound shaping tools.



Use the **Source** field to select the modulation source.

Use the first **Amt** (Amount) field to set how much modulation is applied by the source.

Use the **Target** field to select the output target for modulation.

Use the **Direction** field to set whether the modulation direction is **bipolar** or **unipolar**.

Use the **Min** and **Max** fields to set the minimum and maximum modulation levels of the selected target.

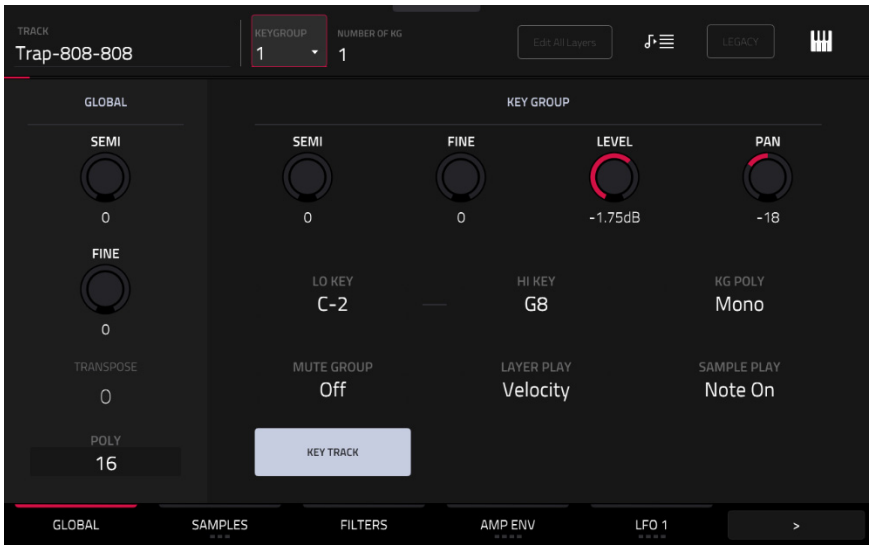
Use the **Via Source** field to add a secondary modulation shaper using another source.

Use the second **Amt** (Amount) field to set how much modulation is applied by the secondary source.

Use the **Shaper** field to apply an additional modifier that affects the modulation relationship between the source and target.

Use the third **Amt** (Amount) field to set how much modulation is applied by the shaper.

Keygroup Tracks



When using keygroup tracks, Track Edit Mode lets you edit the parameters for each keygroup.

Tap the **Legacy** button to enable or disable the Legacy Keygroup editing functions. When this button is enabled, keygroup editing functions the same as it has in previous MPC release. When this button is disabled, the new Advanced keygroup synthesis engine is enabled. Legacy mode is disabled by default. The following sections are labeled as being available in **Advanced** Mode, **Legacy** mode, or both **Advanced and Legacy** modes.

Press a pad or key to select its keygroup. Its parameters will appear on the screen immediately. Alternatively, use the **Keygroup** field at the top of the screen.

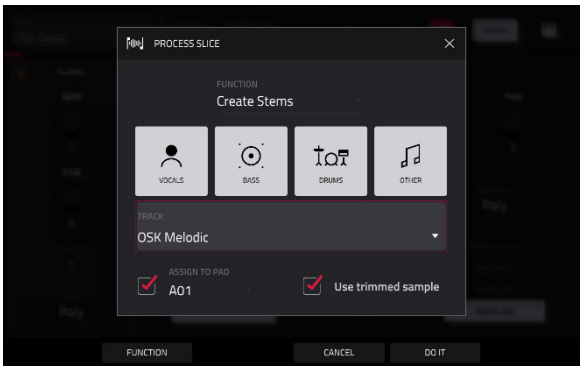
Tap the tabs at the bottom of the screen to view its specific parameters, such as **Global** or **Samples**. For tabs with multiple pages, tap the buttons multiple times to cycle through the available parameters.

Tap the **Keygroup** field to select a keygroup to edit. You can also select **All** to edit all keygroups simultaneously.

Number of KG (keygroups) lets you create up to 128 keygroups within a keygroup track. This is useful when working with multi-samples. For example, if you want to create a realistic piano, you can use different keygroups (e.g., 88 for a grand piano) with every keygroup containing its own sampled note (with up to four possible velocity layers).

Tap the **Edit All Layers** button to enable or disable editing control of all sample layers at the same time. When this is enabled, edits made to sample parameters such as **Start/End** points or **Semi/Fine** tuning on any one layer are automatically applied uniformly to all eight layers at once (even if some layers are empty).

Tap the **Stems** icon to open the Create Stems Function in the Process Sample window. You can use this process to isolate different parts of the sample and separate them into new stem samples.



Click the icons to select or deselect from the following elements to create stems of:

- **Vocals:** Isolate vocal elements of the track into a stem.
- **Bass:** Isolate bass elements of the track into a stem.
- **Drums:** Isolate percussive elements of the track into a stem.
- **Other:** Isolate other musical textures, such as keys or guitars, into a stem.

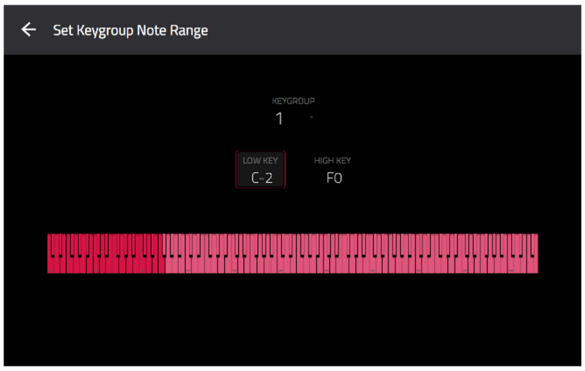
Use the **Track** dropdown menu to select the track where the stems will be added.

The **Assign to Pad** function determines where the stem separated samples are added. When checked, you can select a pad in the chosen Track using the dropdown menu, and the stems will be added to the first four layers of that pad. When unchecked, the stems will be added to the general project sample pool in the **Project Info** Browser.

Tap the **Use trimmed sample** box to trim the source sample between the **Start** and **End** points before applying the stem separation process.

Note: To purchase MPC Stems, visit **akaipro.com/stems**, and then activate your purchase in the ***Menu > Preferences > Activate Plugins*** menu.

Tap the **piano-keys icon** to edit the note range of the current keygroup. This will open the **Set Keygroup Note Range** window. This lets you restrict the key range used for a sample's playback. Only notes with a key number higher or equal (**Low Key**) or lower and equal (**High Key**) to the selected value will trigger a sound.



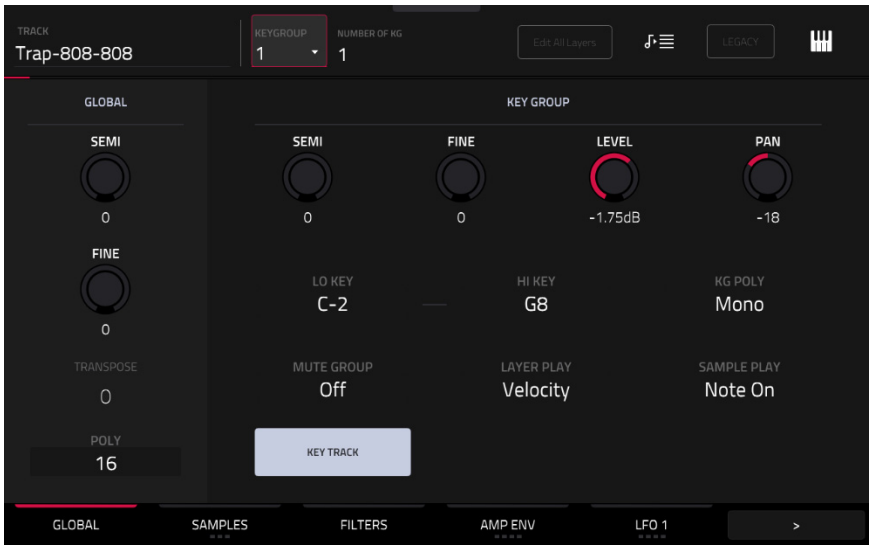
Tips:

Alternatively, you can set the current keygroup's note range by using the **Lo** and **Hi** fields under **Note Range** in the **Global** tab.

Set the **Lo** parameter to **A0** and the **Hi** parameter to **C8** to emulate the range of a standard 88-key piano.

Global (Advanced and Legacy)

In the Global tab, you can set the playback mode and tuning for the overall track. This tab has the same features and functions in both **Legacy** and **Advanced** editing.



Global Semi lets you tune the track up to 36 semitones up or down.

Global Fine provides fine-tuning of the track up to 99 cents up or down.

Transpose shifts the pitch of the MIDI notes sent to the track up to 36 semitones up or down.

Poly (polyphony) sets the playback mode for the track's keygroups. In **Mono** Mode, only one keygroup will sound at a time. If a keygroup is played while another (or the same one) is still playing its sample/samples, the new keygroup will immediately mute all other currently playing keygroups in that track. In **Poly** Mode, several keygroups can be triggered at the same time (limited only by the total number of voices available).

The **Key Group Semi** field lets you transpose the sample 36 semitones up or down, while **Fine** provides fine-tuning of each layer up to 99 cents up or down.

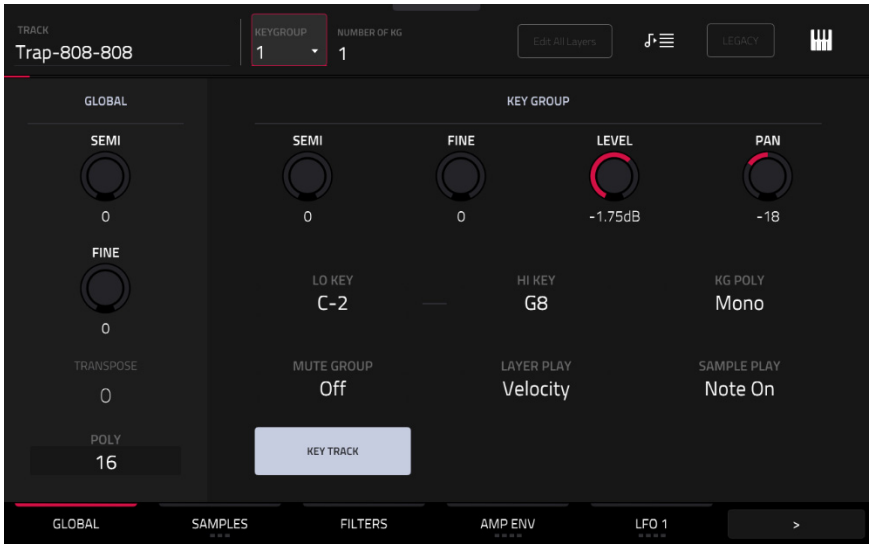
Tip: The **Edit Layers** section has some parameters similar to those in this section (**Level**, **Pan**, **Semi**, **Fine**, **Note Range**). Remember that **Key Group** parameters control the overall settings for the sample, while **Edit Layer** parameters control the settings for each layer (up to 4).

Key Group Level controls the overall volume level of the loaded sample/samples.

Key Group Pan controls the overall panning of the loaded sample/samples in the stereo field.

The **Lo Key** and **Hi Key** fields let you restrict the key range used for a sample's playback. Only notes with a key number higher or equal (**Lo**) or lower and equal (**Hi**) to the selected value will trigger a sound. The settings for **Lo** and **Hi** are also shown in the virtual keyboard in the **Edit Layers** section. Alternatively, tap the **piano-keys icon** to open the **Set Keygroup Note Range** window.

Tip: Set the **Lo** parameter to **A0** and the **Hi** parameter to **C8** to emulate the range of a standard 88-key piano.



Use the **KG Polyphony** (keygroup polyphony) field to determine how the keygroup will play. When set to **Mono**, only one pad will sound at a time. If a pad is played while another (or the same one) is still playing its sample/samples, the new pad will immediately mute all other currently playing pads in that track. When set to **Poly**, several pads can be triggered at the same time, limited only by the total number of voices available. You can also select a specific number of pads (**2**–**32**) so that you can play up to this many pads at the same time (unless they exceed the total number of voices available).

Use the **Mute Group** field to assign the selected keygroup to one of the 32 available mute groups. When keygroups assigned to the same mute group receive MIDI notes, the last keygroup played will silence all other keygroups in that mute group. A mute group affects keygroups within that track only; mute groups do not affect keygroups in other tracks.

Key Track allows you to switch a sample's automatic transposition on or off. If this is off, you will always hear the same pitch of the sample, no matter which note is triggered by pads or a connected MIDI keyboard.

Layer Play determines how multiple samples assigned to the same pad are played:

- **Cycle** (**Cyc**): Each time the pad is played, it will play the next layer's sample. In other words, the samples will cycle through the layers as follows: 1, 2, 3, 4, 1, 2, 3, 4… etc.
- **Velocity** (**Vel**): The pad will switch between layers depending on how hard you press a pad.
- **Random** (**Ran**): Each time the pad is played, it will play one of its layer's samples at random. When selected, the **Random Seed** field displays a value between **1**–**999,999**. You can copy and reuse this value to reproduce the same random sequence.
- **Crossfade:** Crossfade between sample layers using modulation sources like envelopes and LFOs in the **Mod Matrix**, allowing for wave sequencing or vector synthesis-like effects.

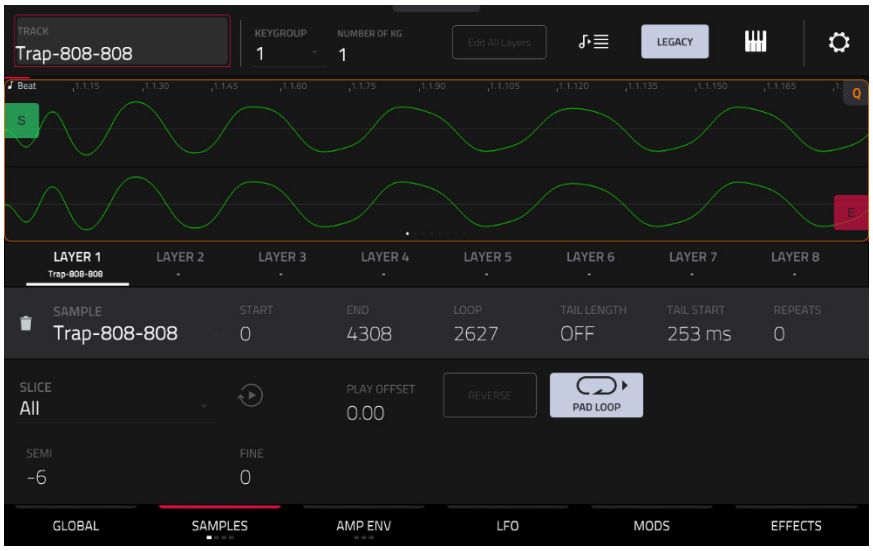
Sample Play determines how much of the sample is played:

- **One Shot**: The entire sample will play from start to end. Use this when you want to play short sounds.
- **Note Off:** The entire sample will play from start to end after the pad has been pressed and released.
- **Note On**: The sample will play only as long as the pad is held. This is better for longer samples so you can control a sound's duration by pressing and holding its corresponding pad.

Samples (Advanced and Legacy)

Each keygroup can trigger up to four samples, which are assigned in four individual layers. Each layer has identical, independently assignable parameters.

Tap **Samples** to cycle through its available tabs. The first three tabs have identical features and functions in both **Legacy** and **Advanced** editing. **Legacy** features a fourth tab (**Random**), which is a separate tab in **Advanced** mode (see ***Randomize (Advanced)***).



You can access the **Settings** window, which lets you configure certain settings in the Samples tab, from any of the three tabs by tapping the **gear icon**.

Use the **Link Slices** selector to set how the start point and end point of a slice in a larger sample is set. You can create these slices in ***Sample Edit Mode*** > ***Chop Mode***.

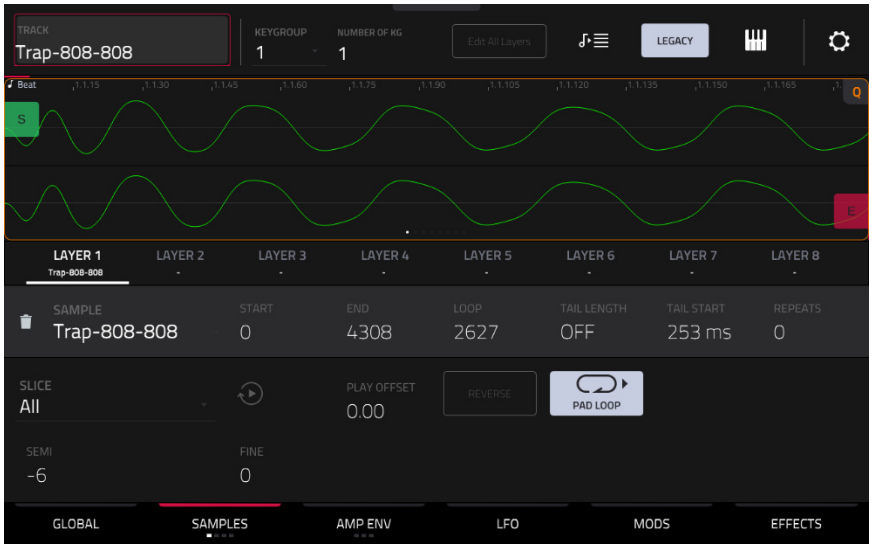
When on, changing the start point of a slice will also change the end point of the previous slice. Similarly, changing the end point of a slice will also change the start point of the next slice. Disable **Link Slices** if you are trying to create slices that use non-contiguous parts of the sample. This is the same as the **Link Slices** button in Sample Edit Mode.

Use the **Loop Lock** selector to “link” or “unlink” the loop point from the start point. When on, the loop point is the same as the start point. When off, the loop point is independent from the start point and indicated by a separate loop marker. This is the same as the **Loop Lock** button in Sample Edit Mode.

Use the **Zero Snap** selector to enable or disable the Zero Snap feature, which forces start points, end points, and loop points to occur only at the waveform’s “zero-crossings.” This can help to avoid clicks and glitches when playing a sample. This is the same as the **0 Snap** button in Sample Edit Mode.

Tap **Close**, the **X** in the upper-right corner, or anywhere outside the window to close the Settings window.

The **first Samples** tab contains the sample waveform for each layer and controls for its pitch, timing, and playback.



The upper half of the screen shows the waveform of the sample on the currently selected layer. The lower half shows the editing controls.

The waveform display shows the “active” section of the sample waveform. Swipe left or right on the waveform to move through it.

Above the waveform is the timeline, shown in bars, beats, and ticks.

Tap each layer number (**Layer 1**–**8**) under the waveform to select it. When selected, its sample waveform will be shown in the upper half of the screen and its settings will be shown in the lower half.

Use the **Sample** field to select the sample file for that layer. Remember that the sample has to be loaded into the project’s sample pool beforehand. For information on how to load samples into a project, please see the ***Browser*** chapter.

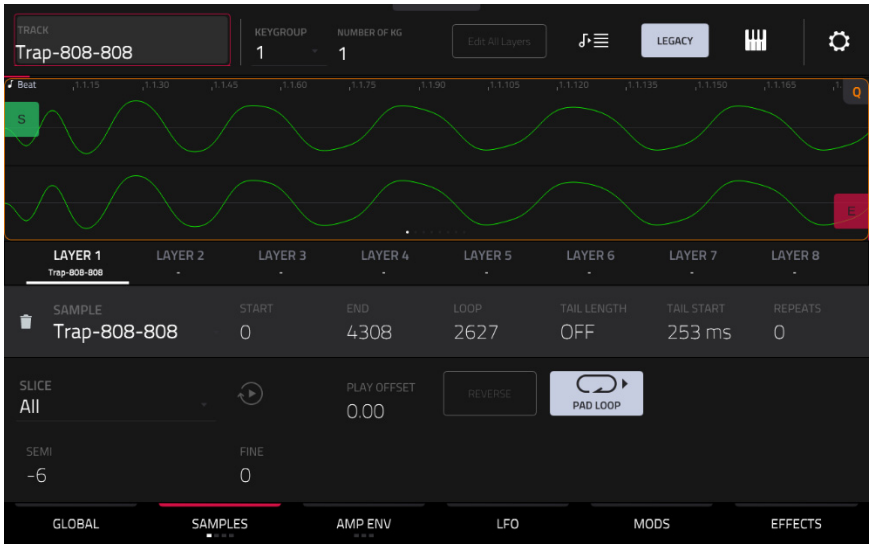
Important: The parameters in the **Samples** tabs work in conjunction with Chop Mode (in Sample Edit Mode). Here’s how it works:

When working in Sample Edit Mode and using Chop Mode to divide a sample into slices for your pads (keygroups), you can convert a slice using **Non-Destructive Slice** or **Pad Parameters**.

A **Non-Destructive Slice** will let its keygroup to refer to that slice when you press a pad in that keygroup; the original sample remains intact, and each slice marker is like a “bookmark” for a keygroup. In Track Edit Mode, you’ll see that the layer to which it’s assigned has its **Slice** drop-down menu set to the corresponding **slice number** in the original sample. Playing that keygroup will cause it to refer to that slice marker like a “bookmark” instead of creating an entirely new sample of that slice. This means that you no longer have to clutter your project with a new sample for every slice (though you can still use this earlier method, if you prefer).

A slice converted using **Pad Parameters** is very similar to a non-destructive slice described above. The difference is that in Track Edit Mode, the layers they’re assigned to have their **Slice** drop-down menus set to **Pad** (instead of the slice number), and the **start** and **end points** will correspond to the slice markers in the original sample.

Tap the **trash can icon** next to the sample field to remove the file from the layer.



The **green**/**S** marker and **red**/**E** marker are the start point and end point (respectively). These two points define the region of the sample that will be played.

To move the start point or end point, do any of the following:

- Tap and drag the **S** or **E** marker left or right.
- Use the **Start** or **End** fields shown below the waveform.
- When the **Q-Links** are set to **screen** mode, you can use them to adjust the start and end points in fine and coarse adjustments. For MPC hardware with four Q-Links, the first bank adjusts the start point, and the second bank adjusts the end point.

Note: When **Loop Lock** is on, the loop position (as determined by the **Loop** field, if enabled) is the same as the sample's start point. When off, the loop position is independent from the start point.

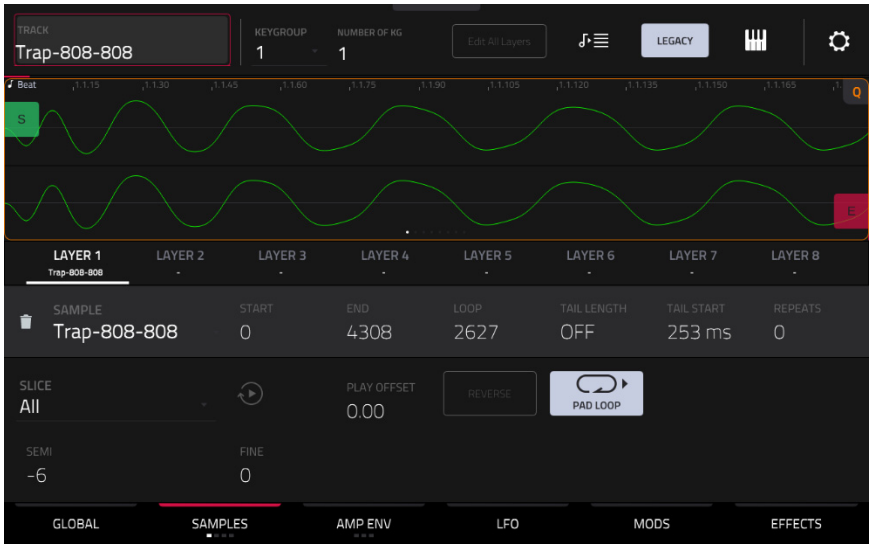
Use the **Loop** field to determine the position where the sample's playback will repeat when **Pad Loop** is activated.

Note: When **Loop Lock** is on, the loop position is the same as the sample's start point. When off, the loop position is independent from the start point.

Use the **Tail Length** and **Tail Start** fields to add extra audio tail to any chopped sample. This is useful for things like making an abrupt end to a sample sound more natural or adding experimental looping effects to a sample. The **Tail Length** parameter enables the sample tail and set its total length, and the **Tail Start** parameter sets the starting point within the tail for looping.

Use the **Repeats** field to set a sample to play a specified number of times. First make sure **Pad Loop** is set to **On**, then use this field to set the number of times you want to have the sample loop between the Sample Loop and End points. For example, a value of 4 would repeat the selected area of the sample 4 times.

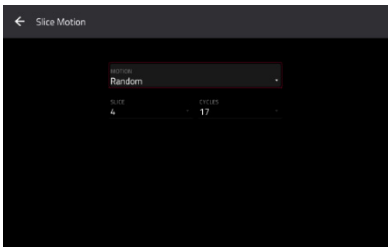
Note: The behavior difference between Repeats set to 0 and 1 is only evident when a Pad's Sample Play parameter is set to **Note On**. Then, when hold a note, a Repeat value of 0 will create infinite repeats, and a value of 1 will play a sample one time through.



Use the **Slice** field to select what part/parts of the sample will play:

- **All**: The entire sample will play.
- **Pad**: The sample will play from the **Pad Start** position to the **Pad End** position, described ***earlier***. This also lets you activate ***Pad Loop*** (if the **Sample Play** field in the **Global** tab is set to **Note On**).
- **Slice 1, 2, 3, etc.**: If you have sliced the sample in Chop Mode, you can select which slice will play when you trigger the pad.

When **Slice** is selected, you can tap the **Slice Motion** icon to trigger a different sample slice each time a pad is played.



Use the **Motion** setting to select **Increment**, which increments the slice number with each new note event, or **Random**, which plays your slices in a random order.

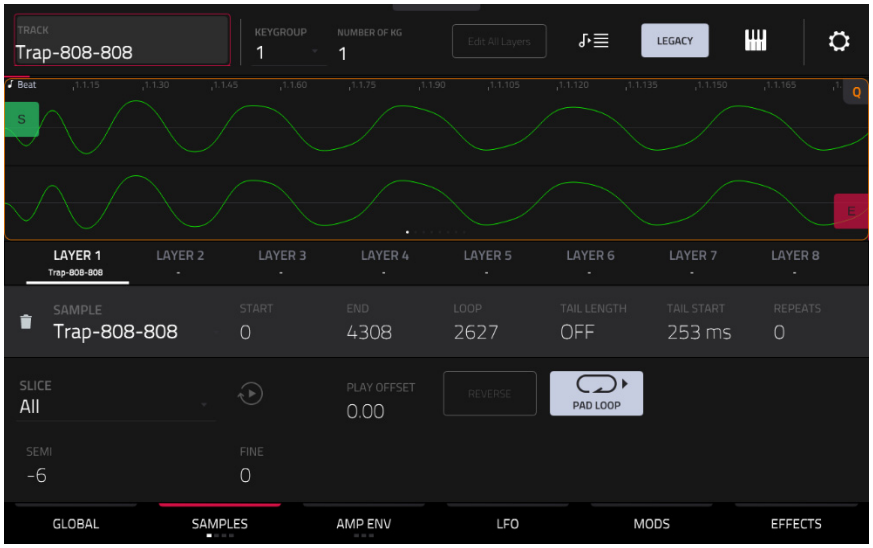
Use the **Slice** field to set the starting slice.

Use the **Cycles** field to select how many of the slices are played.

Tap the pad repeatedly, or turn **Note Repeat** on and hold the pad, to hear the slices of your chopped loop play.

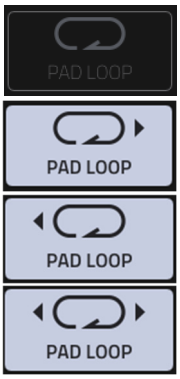
Use the **Play Offset** field to shift a sample window between the **Start**, **End**, and **Loop** points across the sample without altering their relative positions. For example, if you set these points to frame the first 1/16th note of a one-bar sample, you can use the **Play Offset** to shift that window to different 1/16th note positions within the sample. You must retrigger the sample to hear offset changes.

Use the **Reverse** button to select in which direction the sample will play. When on, the sample will play in reverse. When off, the sample will play in the normal forward direction.



Use the **Pad Loop** button to cycle through the available Pad Loop modes.

Important: For Pad Loop to work, you must (**1**) set the **Sample Play** field (in the **Global** tab) to **Note On** instead of One Shot and (**2**) set the **Slice** field (in the first **Samples** tab) to **Pad** instead of All or a slice number.



- **Off**: The sample will not loop.
- **Forward**: You can hold down the **pad** to cause that sample to repeat from the **Loop Position** to the end of the sample. Release the **pad** to stop the repeating playback.
- **Reverse**: You can hold down the **pad** to cause that sample to play in reverse, repeating from the end of the sample to the **Loop Position**. Release the **pad** to stop the repeating playback.
- **Alternating**: You can hold down the **pad** to cause that sample to play from the **Loop Position** to the end of the sample and then play in reverse until it reaches the **Loop Position** again. This will repeat as long as you are holding the pad down. Release the **pad** to stop the repeating playback.

Semi lets you transpose the selected layer up to 36 semitones up or down. This is the same as the **Semi** knob on the second **Samples** tab.

Fine provides fine-tuning of each layer by cents. This is the same as the **Fine** knob on the second **Samples** tab.

The **second Samples** tab (**Tune/Mix**) contains controls for its pitch, volume level, and panning.

Tap the **Layer 1–4/Layer 5–8** button to toggle between visible layers.

Use the **Sample** field to select the sample file for that layer. Tap the **trash can icon** next to the sample field to remove the file from the layer.

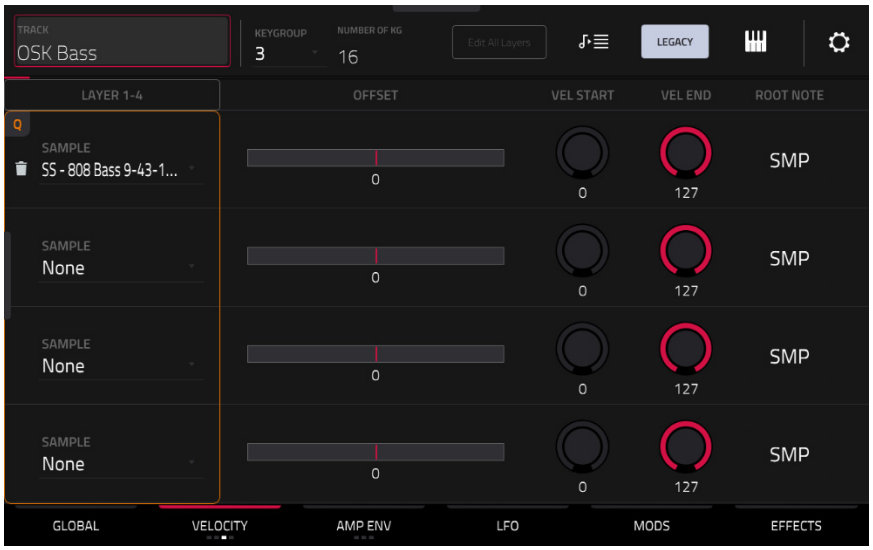
Semi lets you transpose the selected layer up to 36 semitones up or down. This will affect the length of the sample (if **Warp** is off). This is the same as the **Semi** field on the first Samples tab.

Fine provides fine-tuning of each layer by cents. This will affect the length of the sample (if **Warp** is off). This is the same as the **Fine** field on the first Samples tab.

Level lets you adjust each layer's volume, letting you control the "balance" of the samples assigned to the pad.

Pan lets you adjust the stereo placement of the respective layer.

The **third Samples** tab (**Velocity**) contains the control for its offset, velocity range, and root note.



Tap the **Layer 1–4/Layer 5–8** button to toggle between visible layers.

Use the **Sample** field to select the sample file for that layer. Tap the **trash can icon** next to the sample field to remove the file from the layer.

Use the **Offset** slider to determine a time offset for the sample's playback.

- **Positive values** (right of center): When the pad is played, playback will start immediately but at a later point in the sample specified by the offset value.
- **Negative values** (left of center): When the pad is played, playback will be delayed by the amount specified by the offset value.

Use the **Vel Start** and **Vel End** knobs to define the velocity range of each layer.

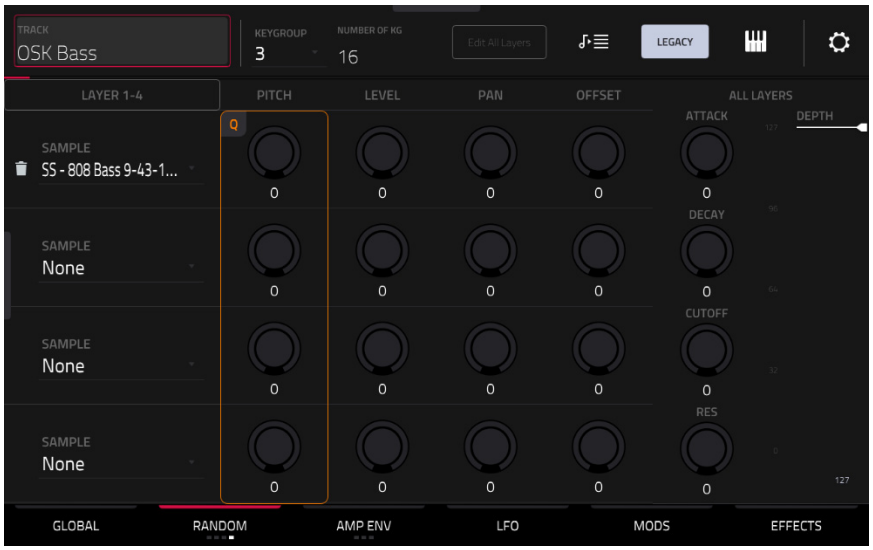
A range from **0** to **127** lets the layer respond to the entire velocity range which is input from the respective pad while, for example, a range from **100** to **127** lets the layer respond only to higher velocity levels. By assigning several samples of one instrument, you can create a realistic-sounding "multi-sample" by adjusting the velocity ranges of each layer accordingly.

For example, you may have three samples of a piano key with low force, medium force, and high force. You can set each sample to a layer and set the Velocity ranges so only low velocities trigger the low-force sample, only mid-range velocities trigger the medium-force sample, and only high velocities trigger the high-force sample.

Use the **Root Note** menu to set the starting note of each loaded sample. **Smp** denotes the sample's default pitch.

The **fourth Samples** tab (**Random**) contains the controls for adding randomization to sample parameters such as pitch, level and panning.

Note: This tab is only available in **Legacy** mode. In **Advanced** mode, use the separate ***Randomize (Advanced)*** tab.



Tap the **Layer 1–4/Layer 5–8** button to toggle between visible layers.

Use the **Sample** field to select the sample file for that layer. Tap the **trash can icon** next to the sample field to remove the file from the layer.

Use the **Pitch** knobs to adjust the amount of randomization applied to each sample layer's pitch.

Use the **Level** knobs to adjust the amount of randomization applied to each sample layer's volume.

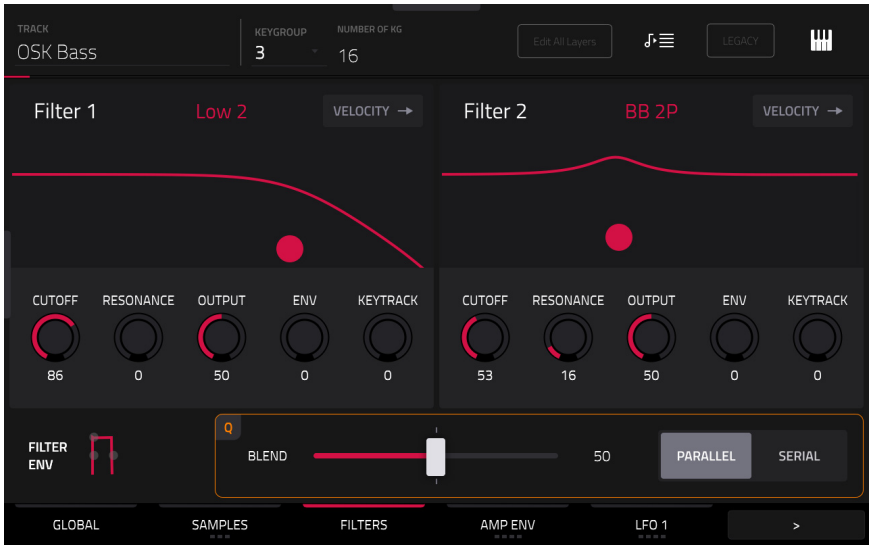
Use the **Pan** knobs to adjust the amount of randomization applied to each sample layer's stereo placement.

Use the **Offset** knobs to adjust the amount of randomization applied to each sample layer's time offset.

The **All Layers** section will apply randomization to all sample layers for the following envelope parameters: **Attack**, **Decay**, **Cutoff** and **Resonance**. Use the **Depth** slider to control the amount of envelope randomization applied overall.

Filters (Advanced)

The Filters tab features two filters which can be run in either parallel or series configuration, with a blend control for mixing between them.



Use the **Filter 1/2 Type** fields to select each filter for the selected keygroup. See ***Appendix*** > ***Glossary*** > ***Filter*** for an explanation of the available filter types.

Use the **Cutoff** knob to set the cutoff frequency for low-pass and high-pass filter types or the center frequency for band-pass and band-stop filter types.

Use the **Resonance** knob to set the resonance/emphasis of the frequencies around the cutoff point.

Tip: Use values lower than **80** to give more brilliance to the sound. At values higher than **80**, the sound will result in a strong audible boost around the cutoff frequency.

Use the **Output** knob to set the output level of the filter.

Use the **Env** knob to set the amount of effect the **Filter Envelope** has on the **Cutoff** frequency.

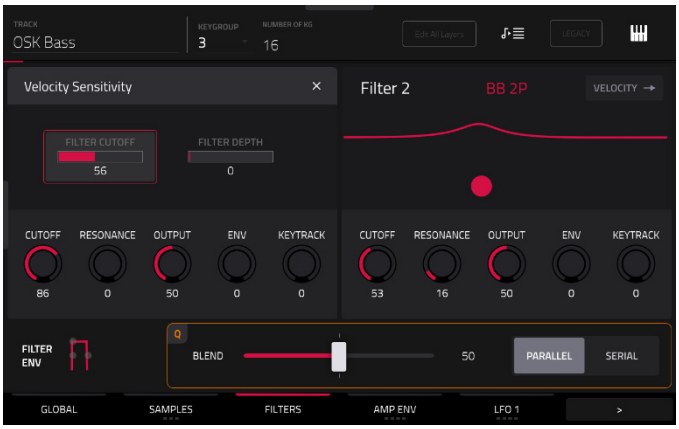
Use the **Keytrack** knob to adjust how the filter cutoff is tied to the pitch being played. At higher levels, the amount of cutoff reduction is more noticeable as the pitch is raised.

Tap the **Filt Env** icon to open the Filter Envelope. This is the same Filter Envelope that can be adjusted in the ***Envelopes (Advanced)*** section. Adjusting in either view will automatically update the other view. Tap the **minimize** icon to close the expanded filter window.

Use the **Blend** knob to adjust the mix between the two filters.

Use the **Parallel/Serial** button to toggle whether the filters run side-by-side (Parallel) or one into the other (Serial).

Tap the **Velocity** → button to access the **Velocity Sensitivity** control for each filter. These modulation controls determine how much the velocity affects the cutoff frequency of the filter envelope (**Cutoff**), and depth of influence the filter envelope has on the cutoff frequency (**Depth**).



Envelopes (Advanced)

Tap the Advanced **Envelopes** tab to cycle through its four available tabs. Alternatively, tap the filter headers below the toolbar to select that tab: **Amp**, **Filter**, **Pitch**, and **Aux**.

The **first Advanced Envelope** tab contains the amplitude modulation envelope.

Use the **Looped** field to enable or disable looping of the envelope. When set to **On**, the envelope will restart once it has reached its end. The length of the envelope is determined by the **Tempo Sync** value, or the total envelope length, as set by the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** knobs. When set to **Off**, the envelope triggers on each note-on only.

Use the **Tempo Sync** field to synchronize the envelope loop with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the loop length is determined by the total length of the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** settings.

Use the **Time Scaling** field to apply an additional time adjustment to the loop length. At 100%, the total loop length is unchanged. The loop length is shorted when set to below 100%, and lengthened when set to above 100%.

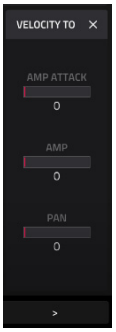
Use the **Global** field to determine whether the envelope is applied to only the current voice (**Off**) or to the entire keygroup (**On**).

The **Amp Envelope** controls affect level changes over time. Use the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** fields or tap and drag the “handles” of the envelope to shape the envelope or time-variant modulation output. Adjust the envelope’s influence on the filter frequency with the **Env** knob. See the later ***Anatomy of an Envelope*** section to learn about the envelope parameters.

Keygroup Level controls the overall volume level of the loaded sample/samples.

Keygroup Pan controls the overall panning of the loaded sample/samples in the stereo field.

Tap the **Keygroup** → button to access the **Velocity To** controls. These modulation controls determine how much the velocity affects the attack of the amplitude envelope (**Amp Attack**), the volume level of the amplitude envelope (**Amp**), and/or the panning of the sound (**Pan**).



When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding slider.

Tap the **X** to exit the **Velocity To** controls.

The **second Advanced Envelope** tab contains the filter modulation envelope.

Use the **Looped** field to enable or disable looping of the envelope. When set to **On**, the envelope will restart once it has reached its end. The length of the envelope is determined by the **Tempo Sync** value, or the total envelope length, as set by the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** knobs. When set to **Off**, the envelope triggers on each note-on only.

Use the **Tempo Sync** field to synchronize the envelope loop with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the loop length is determined by the total length of the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** settings.

Use the **Time Scaling** field to apply an additional time adjustment to the loop length. At 100%, the total loop length is unchanged. The loop length is shorted when set to below 100%, and lengthened when set to above 100%.

Use the **Global** field to determine whether the envelope is applied to only the current voice (**Off**) or to the entire keygroup (**On**).

The **Filter Envelope** controls affect the filter frequency. Use the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** fields or tap and drag the “handles” of the envelope to shape the envelope or time-variant modulation output. Adjust the envelope’s influence on the filter frequency with the **Depth** knob. See the later ***Anatomy of an Envelope*** section to learn about the envelope parameters.

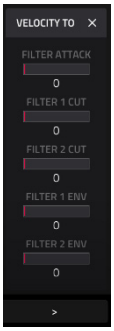
Use the **Env** knobs to determine the amount of influence the filter envelope has on the cutoff frequency. Higher settings will increase the modulation of the filter by the envelope; lower settings will result in only subtle changes of the filter **Cutoff** over time.

Tip: **To give a sound a more distinctive attack**, increase the **Env** setting and set low **Atk** and **Decay** values as well as a medium-low **Sust** value of the **Filter Envelope**. This will start a sound with the filter opened and close it shortly afterward, giving it a bright start followed by a darker sustain. String sounds, on the other hand, can sound much more “alive” with low **Depth** settings and a high **Atk** value, resulting in a slight fade-in of the higher frequencies.

Use the **Type** field to select up to two filter types for the selected keygroup. These are the same filters as set in the ***Filters (Advanced)*** tab. See ***Appendix*** > ***Glossary*** > ***Filter*** for an explanation of the available filter types.

Use the **Cutoff** knob to set the cutoff frequency for low-pass and high-pass filter types or the center frequency for band-pass and band-stop filter types.

Tap the **Filter** ➝ button to access the **Velocity To** controls. These modulation controls determine how much the velocity affects the attack phase of the filter envelope (**Attack**), the cutoff frequency of the filter envelope (**Filter 1/2 Cut**), and/or depth of influence the filter envelope has on the cutoff frequency (**Filter 1/2 Env**).



When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding slider.

Tap the **X** to exit the **Velocity To** controls.

The **third Advanced Envelope** tab contains the pitch modulation envelope.

Use the **Looped** field to enable or disable looping of the envelope. When set to **On**, the envelope will restart once it has reached its end. The length of the envelope is determined by the **Tempo Sync** value, or the total envelope length, as set by the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** knobs. When set to **Off**, the envelope triggers on each note-on only.

Use the **Tempo Sync** field to synchronize the envelope loop with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the loop length is determined by the total length of the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** settings.

Use the **Time Scaling** field to apply an additional time adjustment to the loop length. At 100%, the total loop length is unchanged. The loop length is shorted when set to below 100%, and lengthened when set to above 100%.

Use the **Global** field to determine whether the envelope is applied to only the current voice (**Off**) or to the entire keygroup (**On**).

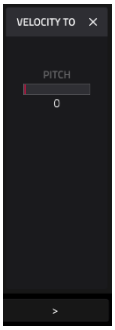
The **Pitch Envelope** controls affect the keygroups's pitch change over time. Use the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** fields or tap and drag the "handles" of the envelope to shape the envelope or time-variant modulation output.

Adjust the envelope's influence on the pitch with the **Env Depth** knob. See the later ***Anatomy of an Envelope*** section to learn about the envelope parameters.

Global Semi lets you transpose the keygroup up to 36 semitones up or down. This will affect the length of the sample (if **Warp** is off). This is the same as the **Semi** field on the **Global** tab.

Global Fine provides fine-tuning of each layer by cents. This will affect the length of the sample (if **Warp** is off). This is the same as the **Fine** field on the **Global** tab.

Tap the **Filter** ➙ button to access the **Velocity To** controls. This modulation control determines how much the velocity affects the pitch envelope (**Pitch**).



When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the **Pitch** slider.

Tap the **X** to exit the **Velocity To** controls.

The **fourth Advanced Envelope** tab contains the aux modulation envelope. This can be used as part of the **Modulation matrix** to apply an envelope to other parameters.

Use the **Looped** field to enable or disable looping of the envelope. When set to **On**, the envelope will restart once it has reached its end. The length of the envelope is determined by the **Tempo Sync** value, or the total envelope length, as set by the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** knobs. When set to **Off**, the envelope triggers on each note-on only.

Use the **Tempo Sync** field to synchronize the envelope loop with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the loop length is determined by the total length of the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** settings.

Use the **Time Scaling** field to apply an additional time adjustment to the loop length. At 100%, the total loop length is unchanged. The loop length is shorted when set to below 100%, and lengthened when set to above 100%.

Use the **Global** field to determine whether the envelope is applied to only the current voice (**Off**) or to the entire keygroup (**On**).

The **Aux Envelope** controls adjust the shape of the envelope, which can be used to apply envelope shaping to other parameters in the Modulation Matrix. Use the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** fields or tap and drag the “handles” of the envelope to shape the envelope or time-variant modulation output.

LFO (Advanced)

Tap the Advanced **LFO** tab to cycle through its four available tabs. Alternatively, tap the filter headers below the toolbar to select that tab: **LFO 1**, **LFO 2**, **Global LFO 1**, and **Global LFO 2**.

A low-frequency oscillator (LFO) generates a periodic waveform with an adjustable frequency and shape which can be used for modulation purposes. There are two per-voice LFOs and two global LFOs for extensive modulation options.

The **first** and **second Advanced LFO** tabs contain the per-voice LFOs.

Use the **Wave** field to select the LFO waveform type:

- **Sine**: Best suited for smooth modulations.
- **Tri** (Triangle): Best suited for smooth modulations.
- **S&H**: Samples a random value and holds it until the next value is generated.
- **Saw:** Can generate interesting filter or volume changes.
- **SawD** (Saw Down): Can generate interesting filter or volume changes.
- **Sqr** (Square): Interesting results with hard-panning modulations.
- **Noise**: Generates random values and glides.

Use the **Fade In** field to set the length of time for the LFO to reach full level once triggered.

Use the **Fade In [Sync]** to synchronize the fade in with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the fade in length is determined by the **Fade In** knob.

Use the **Reset** field to determine whether the LFO retriggers on each note played (**On**) or not (**Off**).

Use the **Delay** knob to set the length of time between when the note is triggered and when the LFO is triggered.

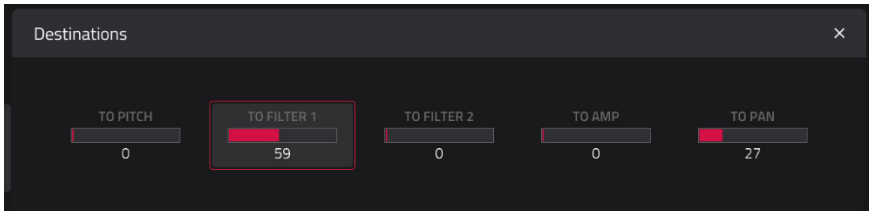
Use the **Delay [Sync]** to synchronize the delay time with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the delay length is determined by the **Fade In** knob.

Use the **Rate** knob to determine the LFO frequency. At lower values, it might take some time for the LFO to complete a cycle, while higher values will come closer to audible range.

Use the **Rate [Sync]** knob to set if the LFO's rate when synchronized with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the frequency is determined by the **rate** knob.

Use the **Level** knob to set the overall amount of modulation applied by the LFO. At lower values, the modulation is more subtle, and at higher values it is more extreme.

Use the **Wheel to LFO** knob to adjust how much control mod wheel data (MIDI CC1) has over the LFO. When set to 0, the mod wheel has no effect on the LFO level. When set to **100**, the LFO is fully controlled by the mod wheel.



Tap the **Destinations** ➜ button to access the destination controls. These sliders to determine how much the LFO affects the pitch of the sound (**To Pitch**), the cutoff frequency of the filter (**To Filter 1/2**), the volume level of the sound (**To Amp**) and panning of the sound (**To Pan**).

The **third** and **fourth Advanced LFO** tabs contain the Global LFOs.

Use the **Wave** field to select the LFO waveform type:

- **Sine**: Best suited for smooth modulations.
- **Tri** (Triangle): Best suited for smooth modulations.
- **S&H**: Samples a random value and holds it until the next value is generated.
- **Saw:** Can generate interesting filter or volume changes.
- **SawD** (Saw Down): Can generate interesting filter or volume changes.
- **Sqr** (Square): Interesting results with hard-panning modulations.
- **Noise**: Generates random values and glides.

Use the **Rate** knob to determine the LFO frequency. At lower values, it might take some time for the LFO to complete a cycle, while higher values will come closer to audible range.

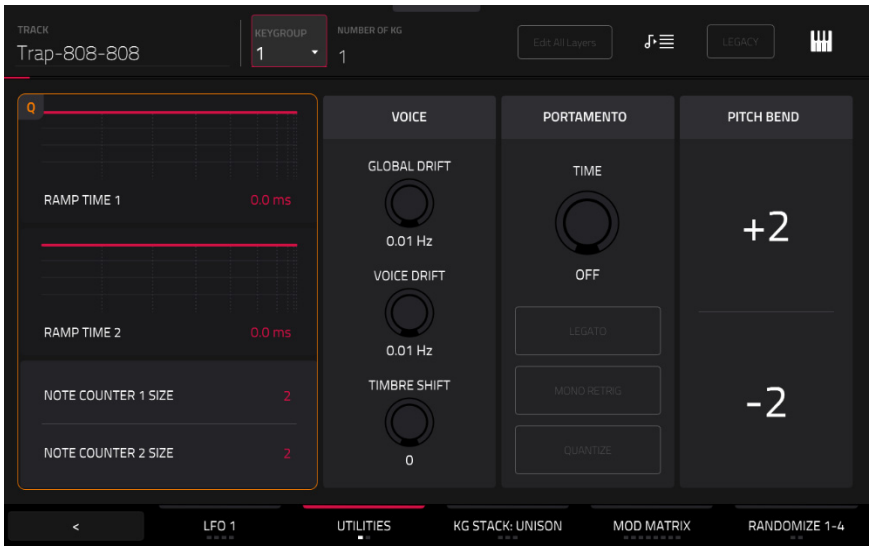
Use the **Rate [Sync]** knob to set if the LFO's rate when synchronized with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the frequency is determined by the **rate** knob.

Use the **Level** knob to set the overall amount of modulation applied by the LFO. At lower values, the modulation is more subtle, and at higher values it is more extreme.

Utilities/Sensitivity (Advanced)

Tap the Advanced **Utilities/Sensitivity** tab to cycle through the two tabs.

The **Utilities** tab contains additional modulation parameters, as well as portamento and pitch bend controls.



Use the **Ramp Time 1/2** fields to adjust the ramp length. These can be used to apply additional modulation shaping to other parameters via the ***Mod Matrix***.

Use the **Note Counter 1/2 Size** fields to set stepped modulation values. These can be used as part of the ***Mod Matrix*** to change parameter values based on the number of voices selected (**2**–**64**).

Use the **Global Drift** knob to set the amount of pitch drift applied to the entire keygroup.

Use the **Voice Drift** knob to set the amount of pitch drift applied to the selected keygroup voice.

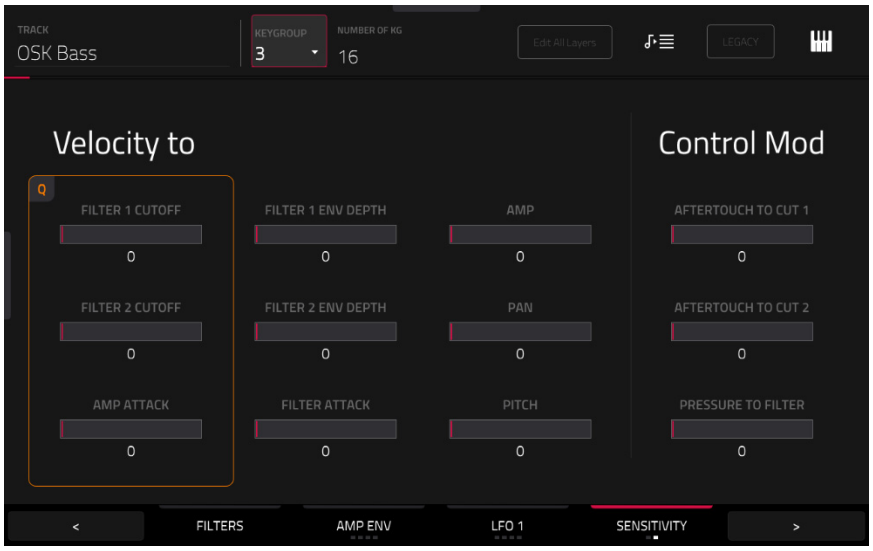
Use the **Timbre Shift** knob to adjust the amount of tonal character shaping applied to the keygroup.

Use the **Portamento** parameters to adjust the settings for pitch gliding.

- The **Time** knob sets the length of the glide between notes.
- Tap the **Legato** button to enable or disable pitch gliding for all triggered notes or just legato notes.
- Tap the **Mono Retrig** button to allow the portamento to retrigger on every key press when using mono polyphony.
- Tap the **Quantize** button to synchronize the portamento time with the project tempo.

Use the **Pitch Bend** fields to set the number of semitones shifted up or down when pitch bend is applied.

The **Sensitivity** tab contains settings for velocity sensitivity and external controller modulation.



Use the **Velocity To** sliders to set how much velocity is required to modulate certain other parameters:

- **Filter 1/2 Cutoff** uses the velocity of a pad to modulate the cutoff frequency directly.
- **Amp Attack** sets how much velocity is needed (for a triggered pad) to modulate the Attack phase for the Amp envelope.
- **Filter 1/2 Env Depth** enables velocity information to control the amount of the filter envelope's effect on the cutoff frequency.
- **Filter Env Attack** sets how much velocity is needed (for a triggered pad) to modulate the Attack phase for the Filter envelope.
- **Amp** enables velocity information to control the overall amplitude (level) of the sample.
- **Pan** enables velocity information to control the stereo panning of the sample.
- **Pitch** enables velocity information to control the pitch of the sample.

The **Controller Mod** section determines the influence of additional play controllers on various sound parameters.

Important: To use these parameters, make sure that a connected MIDI device can send pitch bend messages as well as aftertouch and modulation wheel data.

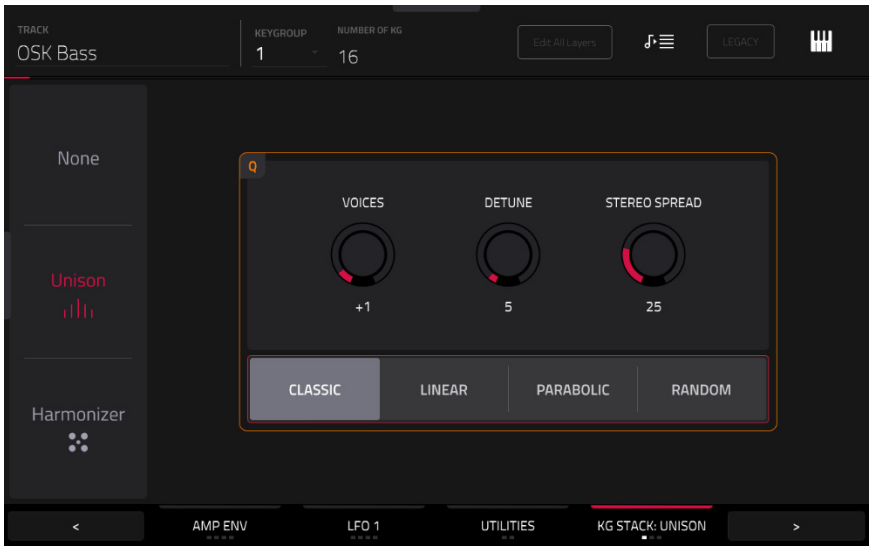
Aftertouch To Cut 1/2 determines how much a connected MIDI keyboard's aftertouch data affects the filter cutoff.

Pressure To Filter determines how much a connected MIDI device's channel pressure data affects the filter envelope.

KG Stack (Advanced)

Tap the Advanced **KG Stack** tab to cycle through its three available tabs. You must first enable a Keygroup Stack effect to show the selected controls: **Unison** or **Harmonizer**. Only one stack effect may be used at a time.

The **first Advanced KG Stack** tab contains the Unison controls.



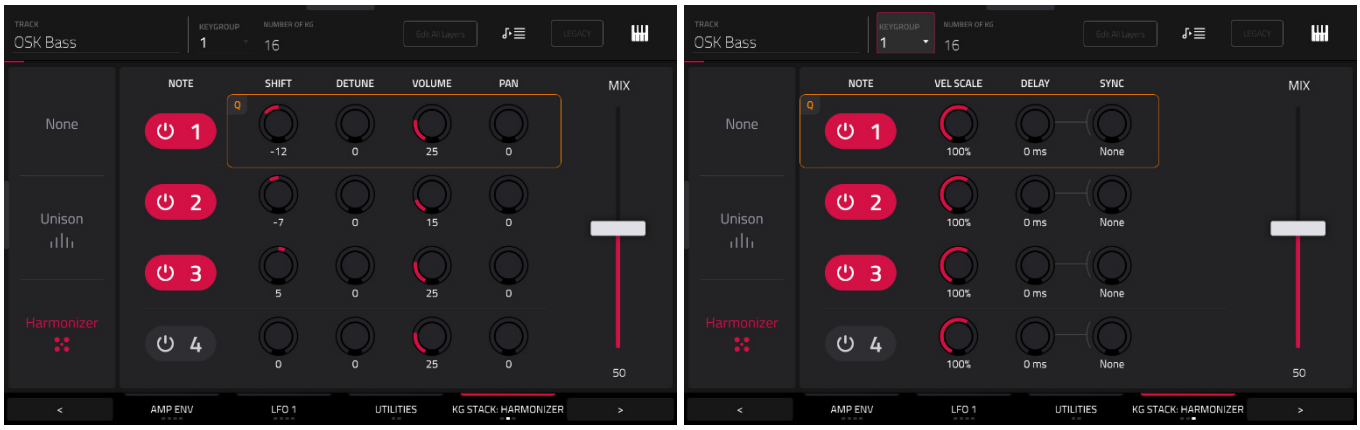
Use the **Voices** knob to adjust the number of unison voices.

Use the **Detune** knob to adjust the amount of fine-tuning applied to the unison voices in cents.

Use the **Stereo Spread** knob to adjust the width of the unison voices in the left-right stereo field.

Use the **type** selector to select the type of unison voice stacking applied (**Classic**, **Linear**, **Parabolic**, or **Random**).

The **second** and **third Advanced KG Stack** tab contains the Harmonizer controls.



Tap the **Note** number to enable each harmonizer voice.

Use the **Shift** field to set the amount of pitch shifting applied to the voice in semitones.

Use the **Detune** knob to adjust the amount of detuning to the voice in cents.

Use the **Volume** knob to set the level of the voice.

Use the **Pan** knob to set the stereo panning of the voice.

Use the **Vel Scale** knob to adjust the ratio of the harmonized voice velocity with the incoming note velocity.

Use the **Delay** knob to add an additional time delay between the note start and the harmonized voice start.

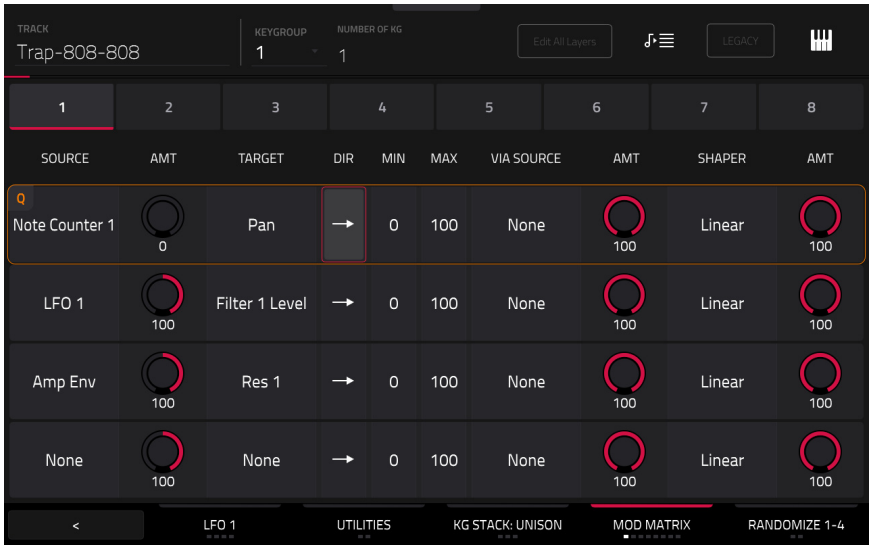
Use the **Sync** knob to set the Delay time when synchronized with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off, and the delay time is determined by the **Delay** knob.

Use the **Mix** slider to set the overall wet/dry mix between the original note and the harmonized voices.

Mod Matrix (Advanced)

Tap the Advanced **Mod Matrix** tab to cycle through its eight available tabs. Alternatively, tap the numbered headers below the toolbar to select that tab.

The 32 available modulation points can be configured to add a wide variety of sound shaping tools.



Use the **Source** field to select the modulation source.

Use the first **Amt** (Amount) field to set how much modulation is applied by the source.

Use the **Target** field to select the output target for modulation.

Use the **Direction** field to set whether the modulation direction is **bipolar** or **unipolar**.

Use the **Min** and **Max** fields to set the minimum and maximum modulation levels of the selected target.

Use the **Via Source** field to add a secondary modulation shaper using another source.

Use the second **Amt** (Amount) field to set how much modulation is applied by the secondary source.

Use the **Shaper** field to apply an additional modifier that affects the modulation relationship between the source and target.

Use the third **Amt** (Amount) field to set how much modulation is applied by the shaper.

Randomize (Advanced)

Tap the Advanced **Randomize** tab to cycle through its two available tabs. On these tabs you can apply randomization to the eight keygroup layers, as well as to all layers globally. The first tab controls layer 1–4, and the second tab controls layers 5–8.

The **All Layers** section will apply randomization to all sample layers for the following envelope parameters: **Attack**, **Decay**, **Cutoff 1/2,** and **Resonance 1/2**.

Use the **Pitch** knobs to adjust the amount of randomization applied to each sample layer's pitch.

Use the **Level** knobs to adjust the amount of randomization applied to each sample layer's volume.

Use the **Pan** knobs to adjust the amount of randomization applied to each sample layer's stereo placement.

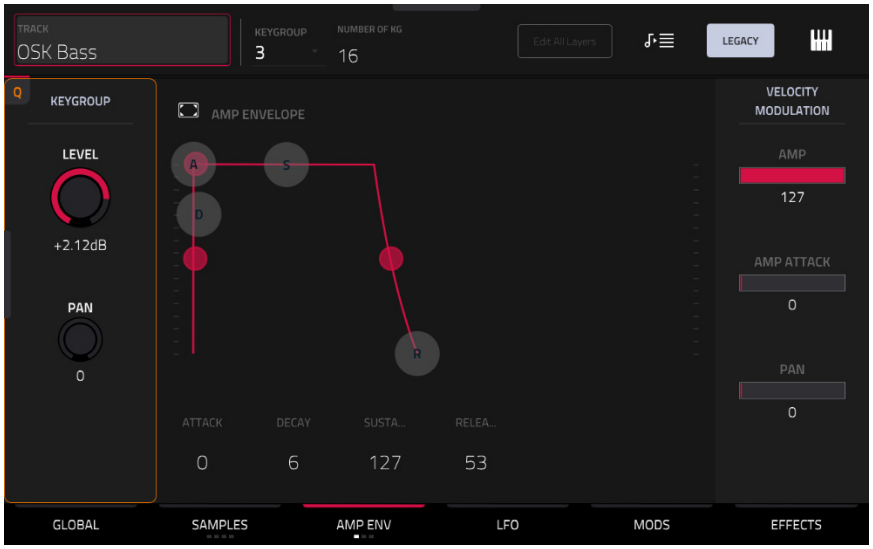
Use the **Offset** knobs to adjust the amount of randomization applied to each sample layer's time offset.

Use the **Total Amount** slider to control the depth of envelope randomization applied overall.

Envelopes (Legacy)

Tap **Envelopes** to cycle through its three available tabs.

The **first Envelope** tab contains the amplitude modulation envelope.



Keygroup Level controls the overall volume level of the loaded sample/samples.

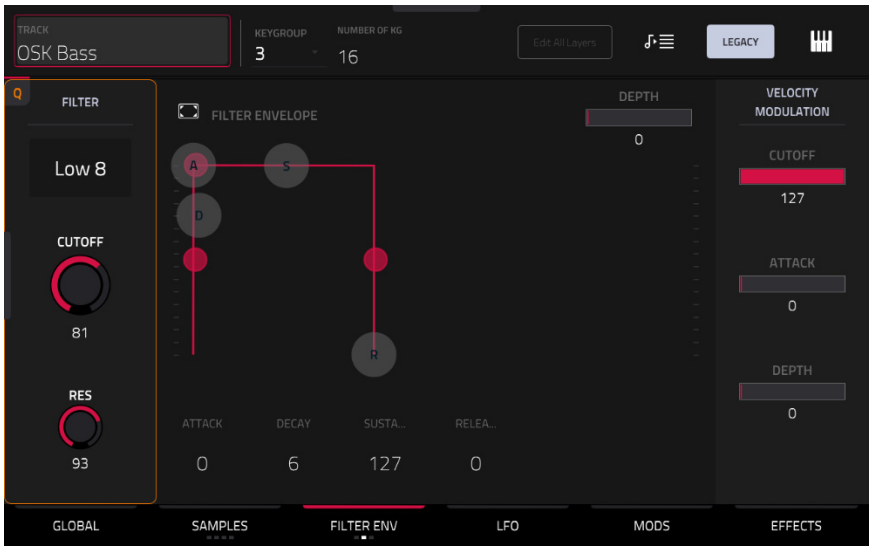
Keygroup Pan controls the overall panning of the loaded sample/samples in the stereo field.

The **Amp Envelope** controls affect level changes over time. Use the fields or tap and drag the “handles” of the envelope to shape the envelope or time-variant modulation output. Adjust the envelope’s influence on the filter frequency with the **Env** knob. See the later ***Anatomy of an Envelope*** section to learn about the envelope parameters.

The **Velocity Modulation** controls determine how much the velocity affects the volume level of the amplitude envelope (**Amp**), the attack of the amplitude envelope (**Amp Attack**), and/or the panning of the sound (**Pan**).

When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding slider.

The **second Envelope** tab contains the filter modulation envelope.



Use the **Type** field to select a filter for the selected pad. See ***Appendix*** > ***Glossary*** > ***Filter*** for an explanation of the available filter types.

Use the **Cutoff** knob to set the cutoff frequency for low-pass and high-pass filter types or the center frequency for band-pass and band-stop filter types.

Use the **Reso** knob to set the resonance/emphasis of the frequencies around the cutoff point.

Tip: Use values lower than **80** to give more brilliance to the sound. At values higher than **80**, the sound will result in a strong audible boost around the cutoff frequency.

The **Filter Envelope** controls affect the filter frequency. Use the fields or tap and drag the “handles” of the envelope to shape the envelope or time-variant modulation output. Adjust the envelope’s influence on the filter frequency with the **Depth** knob. See the later ***Anatomy of an Envelope*** section to learn about the envelope parameters.

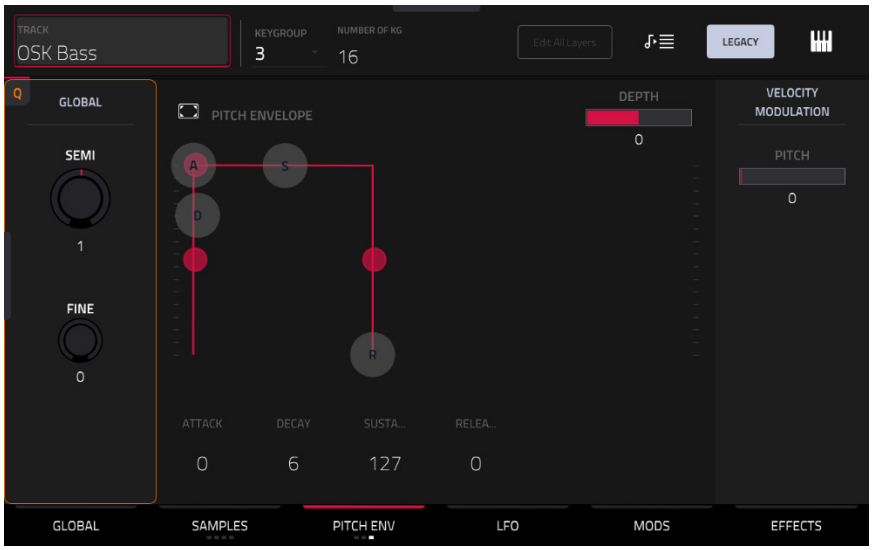
Use the **Depth** slider to determine the amount of influence the filter envelope has on the cutoff frequency. Higher settings will increase the modulation of the filter by the envelope; lower settings will result in only subtle changes of the filter **Cutoff** over time.

Tip: **To give a sound a more distinctive attack**, increase the **Depth** setting and set low **Atk** and **Decay** values as well as a medium-low **Sust** value of the **Filter Envelope**. This will start a sound with the filter opened and close it shortly afterward, giving it a bright start followed by a darker sustain. String sounds, on the other hand, can sound much more “alive” with low **Depth** settings and a high **Atk** value, resulting in a slight fade-in of the higher frequencies.

The **Velocity Modulation** controls determine how much the velocity affects the cutoff frequency of the filter envelope (**Cutoff**), the attack phase of the filter envelope (**Attack**), and/or depth of influence the filter envelope has on the cutoff frequency (**Depth**).

When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding slider.

The **third Envelope** tab contains the pitch modulation envelope.



Global Semi lets you transpose the keygroup up to 36 semitones up or down. This will affect the length of the sample (if **Warp** is off). This is the same as the **Semi** field on the **Global** tab.

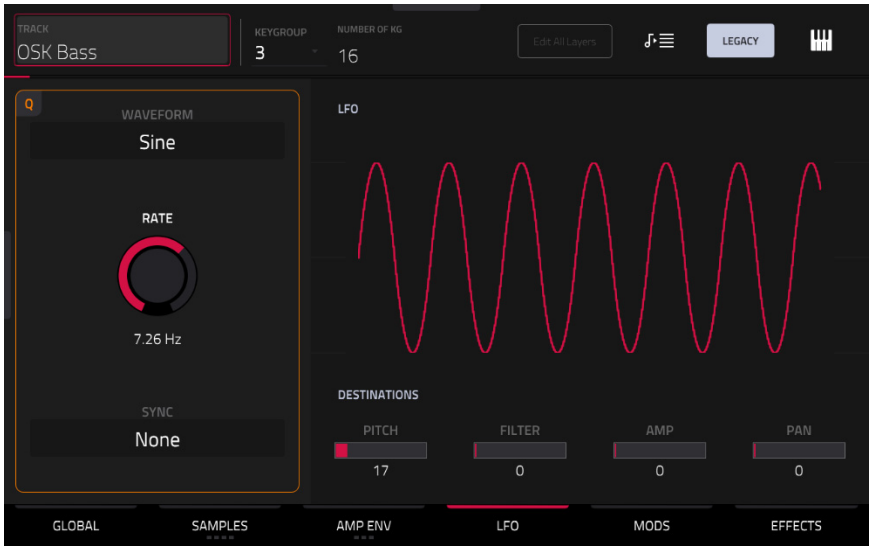
Global Fine provides fine-tuning of each layer by cents. This will affect the length of the sample (if **Warp** is off). This is the same as the **Fine** field on the **Global** tab.

The **Pitch Envelope** controls affect the keygroups's pitch change over time. Use the fields or tap and drag the "handles" of the envelope to shape the envelope or time-variant modulation output. Adjust the envelope's influence on the pitch with the **Depth** slider. See the later ***Anatomy of an Envelope*** section to learn about the envelope parameters.

The **Velocity Modulation** control determines how much the velocity affects the pitch envelope (**Pitch**).

When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the **Pitch** slider.

LFO (Legacy)



A low-frequency oscillator (LFO) generates a periodic waveform with an adjustable frequency and shape which can be used for modulation purposes.

Use the **Waveform** field to select the LFO waveform type:

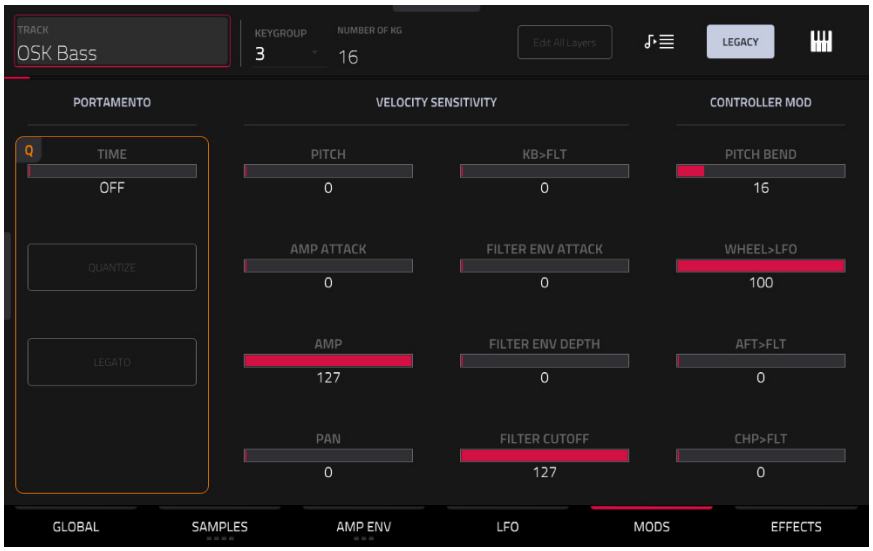
- **Sine**: Best suited for smooth modulations.
- **Tri** (Triangle): Best suited for smooth modulations.
- **S&H**: Samples a random value and holds it until the next value is generated.
- **Saw:** Can generate interesting filter or volume changes.
- **SawD** (Saw Down): Can generate interesting filter or volume changes.
- **Sqr** (Square): Interesting results with hard-panning modulations.
- **Noise**: Generates random values and glides.

Use the **Rate** field to determine the LFO frequency. At lower values, it might take some time for the LFO to complete a cycle, while higher values will come closer to audible range.

Use the **Sync** field to set if the LFO's rate is synchronized with the tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off.

Use the **Destinations** sliders to determine how much the LFO affects the pitch of the sound (**Pitch**), the cutoff frequency of the filter (**Filter**), the volume level of the sound (**Amp**) and panning of the sound (**Pan**).

Mods (Legacy)



Use the **Portamento** fields to adjust the settings for pitch gliding.

The **Time** slider sets the length of the glide between notes.

Tap the **Quantize** button to synchronize the portamento time with the project tempo.

Tap the **Legato** button to enable or disable pitch gliding for all triggered notes or just legato notes.

Use the **Velocity Sensitivity** sliders to set how much velocity is required to modulate certain other parameters:

- **Pitch** enables velocity information to control the pitch of the sample.
- **Amp Attack** sets how much velocity is needed (for a triggered pad) to modulate the Attack phase for the Amp envelope.
- **Amp** enables velocity information to control the overall amplitude (level) of the sample.
- **Pan** enables velocity information to control the stereo panning of the sample.
- **KB>FLT** sets how much the note value will be added to the filter cutoff. This allows samples to sound brighter as they are played higher on the keyboard.
- **Filter Env Attack** sets how much velocity is needed (for a triggered pad) to modulate the Attack phase for the Filter envelope.
- **Filter Env Depth** enables velocity information to control the amount of the filter envelope's effect on the cutoff frequency.
- **Filter Cutoff** uses the velocity of a pad to modulate the cutoff frequency directly.

The **Controller Mod** section determines the influence of additional play controllers on various sound parameters.

Important: To use these parameters, make sure that a connected MIDI device can send pitch bend messages as well as aftertouch and modulation wheel data.

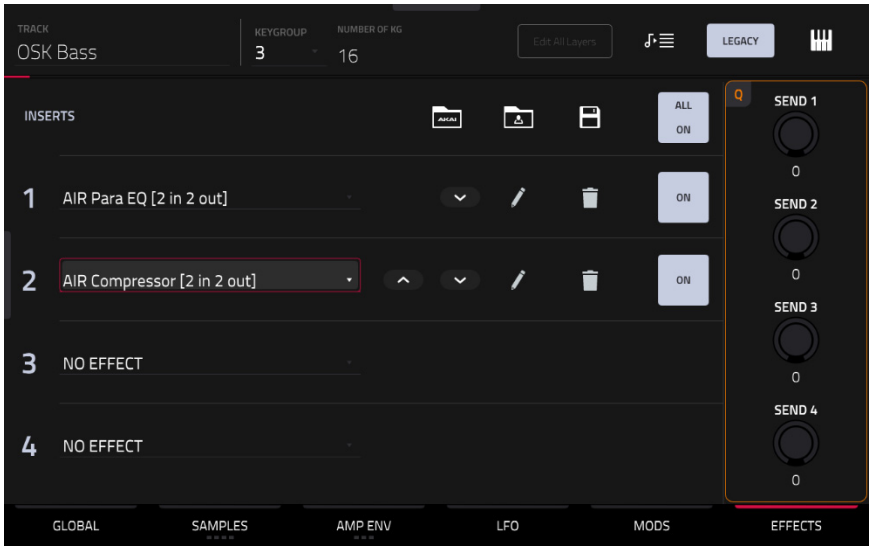
Pitch Bend sets the range (in semitones) of a connected MIDI keyboard's pitch-bend wheel.

Wheel>LFO determines how much a connected MIDI keyboard's modulation wheel affects the LFO intensity.

Aft>Filt (Aftertouch→Filter Cutoff) determines how much a connected MIDI keyboard's aftertouch data affects the filter cutoff.

Chp>Filt (Channel Pressure→Filter Cutoff) determines how much a connected MIDI keyboard's channel pressure data affects the filter cutoff.

Effects (Legacy)



Inserts

You can select up to four insert effects for each keygroup. To learn how to use insert effects, please see ***General Features*** > ***Effects*** > ***Insert Effects***.

Important: When using keygroup insert effects, they will be applied to that keygroup only. Keep this in mind if you load insert effects to multiple keygroups with overlapping note ranges—the effects will overlap in that range as well.

To add an effect:

1. Double-tap the desired **Inserts** slot. A list of effects will appear.
2. Swipe up or down to move through the list.

   You can tap the **Type** and **Manufacturer** buttons to sort your effects by those categories.
3. **To load an effect**, double-tap it, or tap **Select**.

   To close the list, tap **Close**.

Tap the **Akai folder** icon to load a factory FX rack. You can choose from a number of preset combinations of insert effects by applications like Drums and Percussion, Voice, LoFi, Mastering, and more.

Tap second **folder** icon to load a saved FX rack.

Tap the **disk** icon to save an FX rack.

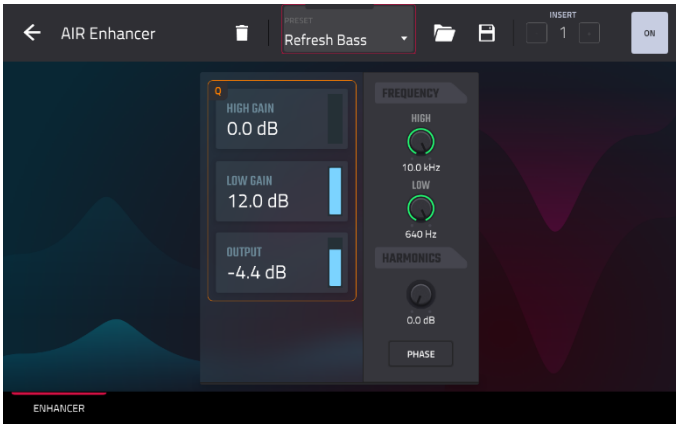
Tap the **All On**/**Off** button in the upper-right corner to enable or disable all four insert effects.

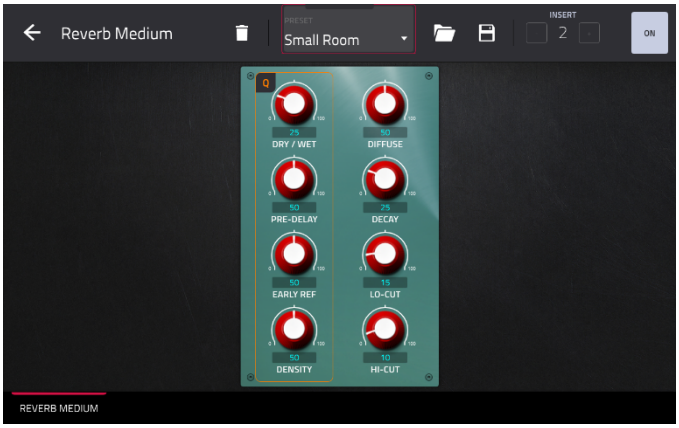
Tap the **arrows** next to the insert slot to move the selected effect up or down to rearrange an insert effect.

Tap the **pencil icon** to adjust the effect's parameters. Use the controls to set the value of each parameter. These values affect only this instance of the effect; insert effects are not global.

Tap the **trash can icon** to remove an effect from its slot.

Tap the **On**/**Off** button for the slot to enable or disable the effect.





Tap the **trash can icon** to remove the effect from its slot.

Tap the **folder** icon next to the preset name at the top of the display to open the file browser and load an effect preset.

Tap the **disk** icon next to the insert selector at the top of the display to save a new effect preset.

Tap the **-/+** buttons to rearrange the insert effect. Adjacent effects will be moved up or down in relation.

Tap the **On/Off** button to enable or disable the effect.

Sends

The audio of the track will be routed to send effects (if you have any loaded) at their designated send levels. The return channels will then send the audio to an assigned main output at the designated return levels.

Use the **Send** knobs to set the volume level of the signal the track will route to each send effect.

You can select up to four send effects for each keygroup, but remember that they will be applied to that keygroup only. Keep this in mind if you load insert effects to multiple keygroups with overlapping note ranges—the effects will overlap in that range as well.

Important: **To use a send effect**, you have to load an effect into the corresponding send effect slot in the mixer. See ***General Features*** > ***Effects*** > ***Send/Return Effects*** to learn more how to do this.

Plugin Tracks

For plugin tracks, you will see an overview of all available plugin parameters with a slider for each, or a visual representation of the plugin interface.

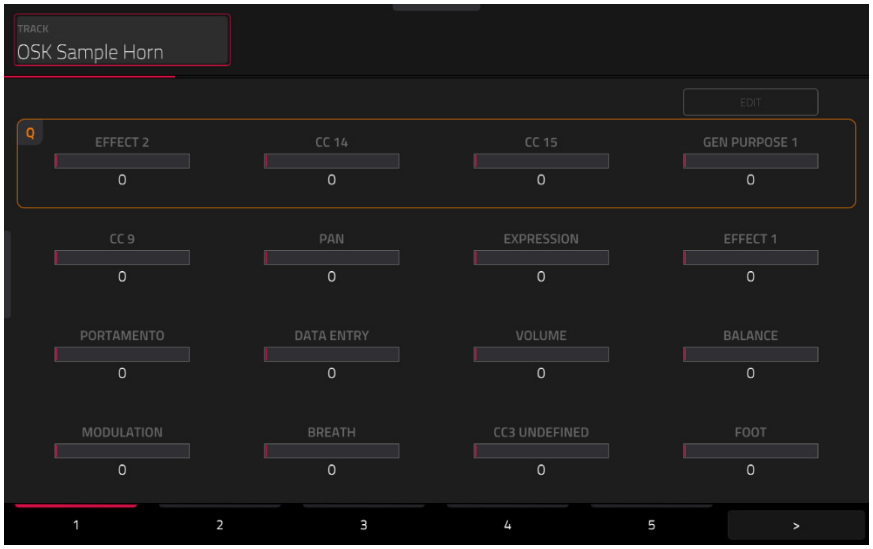
Use the **sliders** to set the value of each parameter, or use the plugin interface.

Use the **tabs** at the bottom of the screen to access the available parameters.

To load a plugin preset, tap the **folder** icon next to the preset name at the top of the display to open the file browser.

To save a new plugin preset, tap the **disk** icon next to the insert selector at the top of the display.

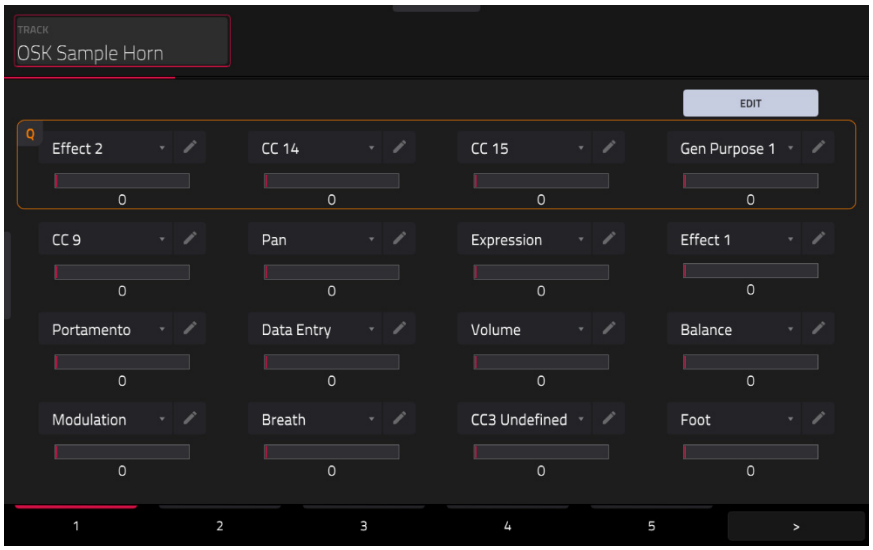
MIDI Tracks



For MIDI tracks, you will see an overview of all available MIDI CCs with a slider for each.

Use the **sliders** to set the value of each parameter.

Use the six **tabs** at the bottom of the screen to access the available parameters.

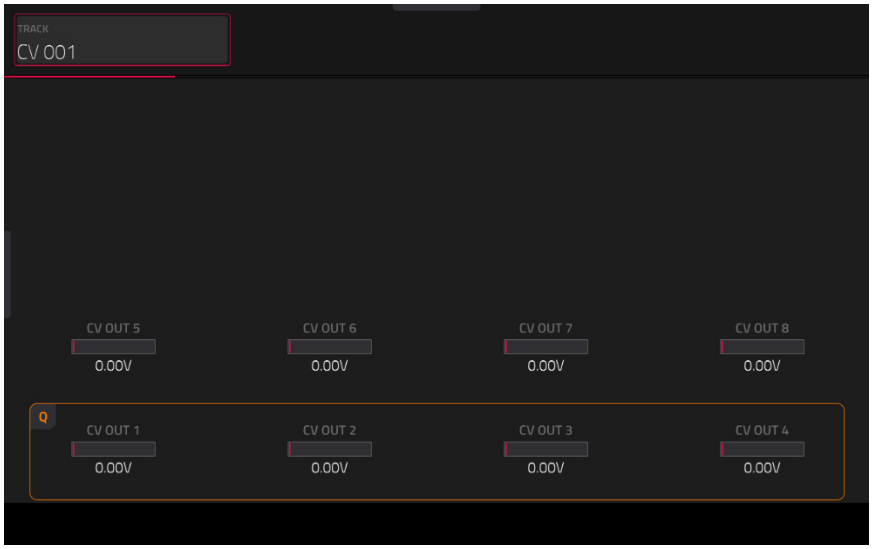


Tap the **Edit** button in the top-right of the page to edit the MIDI track assignments and naming.

To assign a parameter, tap the **dropdown menu** and use the **data dial** or **+/-** buttons to scroll through the available MIDI assignments. You can also double-tap the menu to view a list of assignments.

To rename a parameter, tap the **pencil icon** next to the dropdown menu, and then use the keyboard that appears to enter a new name. Once renamed, you can save the track and use it with other projects to retain your custom naming.

CV Tracks



For CV tracks, you will see an overview of all available CV outputs with a slider for each.

Use the **sliders** to set the value of each parameter.

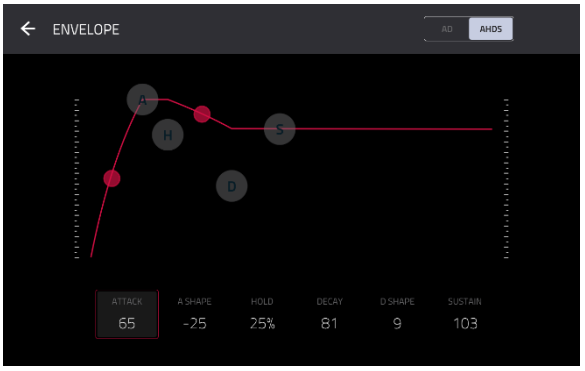
Anatomy of an Envelope

An envelope creates a variable control signal. It can be used, for instance, to modulate the filter settings of a sound over a given period of time.

For drum tracks, use the **AD**/**AHDS** selector to select an AD or AHDS envelope. When **Sample Play** is set to **Note-On**, it will use an ADSR envelope.

Keygroup tracks always use **AHDS** envelopes. When **Sample Play** is set to **Note-On**, it will use an **ADSR** envelope.

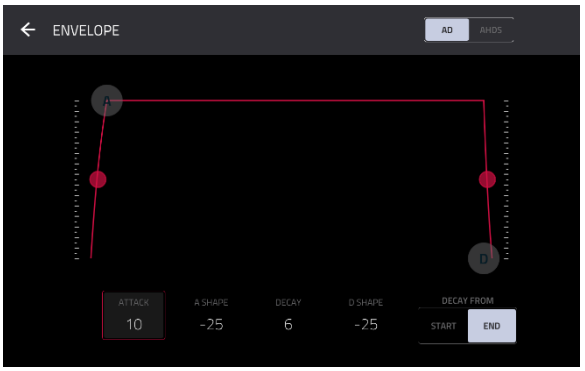
With **AHDS** envelopes, the following happens when you trigger a sample:



1. Within the period of time you have defined with the attack (**Atk**), the sample volume rises to its maximum value.
2. The sample's maximum volume will be maintained during the **Hold** phase.
3. During the **Decay** phase, the sample's volume will gradually drop to the sustain level.
4. The sample's volume will stay at the sustain level (**Sust**) until the pad is released.

Use the **A Shape** and **D Shape** fields to adjust the curve of the **Attack** and **Decay** phases, respectively.

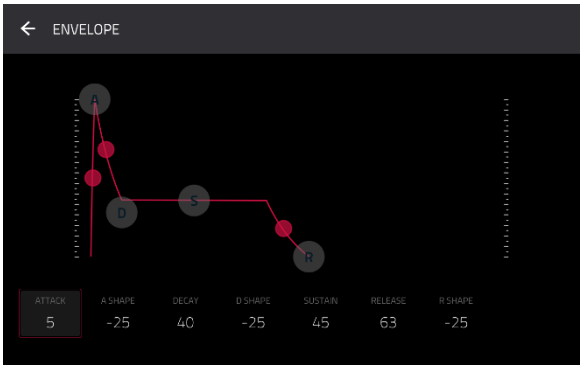
With **AD** envelopes, the following happens when you trigger a sample:



1. Within the period of time you have defined with the attack (**Atk**), the sample volume rises to its maximum value.
2. The sample's maximum volume will be maintained until its **Decay** phase, when the sample's volume will gradually drop to zero over the set duration. Tap the **Type** drop-down menu to select how the decay functions:
    - **Decay From Start**: The volume will start decreasing immediately after reaching its maximum level.
    - **Decay From End**: The maximum volume will be maintained for a hold phase until it reaches the decay phase.

Use the **A Shape** and **D Shape** fields to adjust the curve of the **Attack** and **Decay** phases, respectively.

With **ADSR** envelopes, the following happens when you trigger a sample:



1. Within the period of time defined by **Attack**, the sample volume rises to its maximum value.
2. During the **Decay** phase, the sample's volume will gradually drop to the **Sustain** level.
3. The sample's volume will stay at the **Sustain** level until the note is released.
4. The sample's volume will drop to "zero" over the duration set by **Release**.

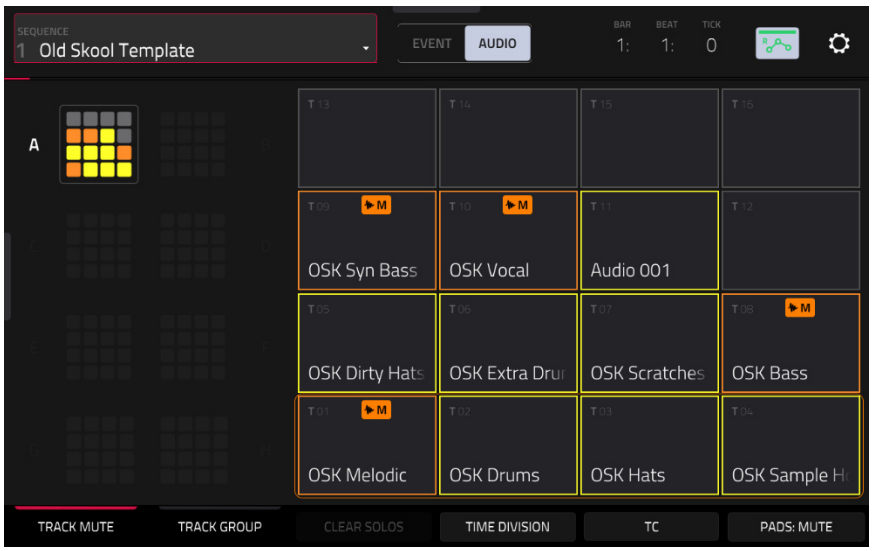
Use the **A Shape**, **D Shape** and **R Shape** fields to adjust the curve of the **Attack**, **Decay** and **Release** phases, respectively.

Track Mute Mode

Track Mute Mode lets you easily mute tracks within a sequence or set track groups, enabling you to mute multiple tracks at once.

To enter Track Mute Mode, do either of the following:

- Press **Menu**, and then tap **Track Mute**.
- Press **Track Mute** (MPC X, MPC One, MPC Key 37), or press **Mute** (MPC Key 61).



There are two tabs you can view in this mode: ***Track Mute*** or ***Track Group***. Tap each button in the lower-left corner to select it.

Use the **Sequence** field at the top of the screen to select a sequence.

The **Event/Audio** toggle allows you to separately mute track events or mute audio on tracks that contain both MIDI and audio paths, including **Drum**, **Plugin**, and **Keygroup** tracks. **MIDI** and **CV** tracks will apply **Event** Mute regardless of the selection, and **Audio** tracks will apply **Audio** Mute regardless of the selection.

The ***Time Counter*** in the upper-right corner the current playhead position.

The **automation button** indicates the global ***Automation*** state.

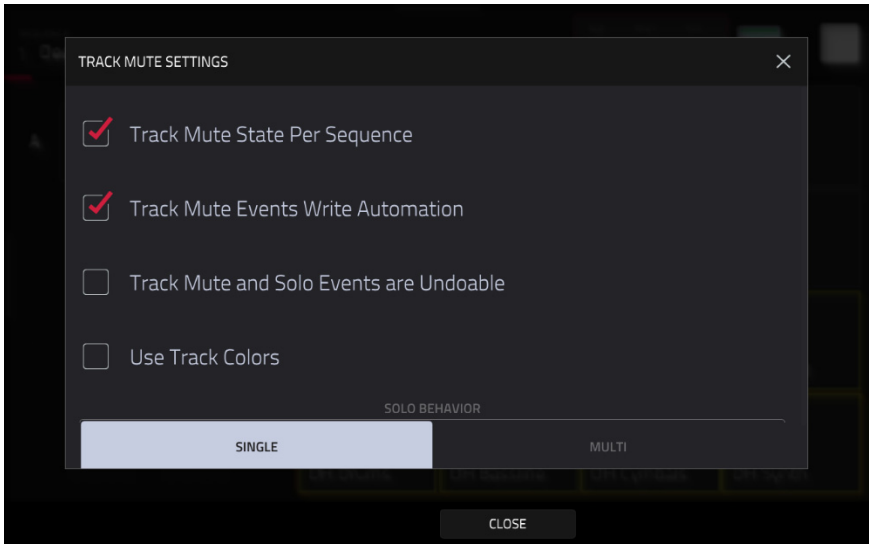
Timing Correct (TC) lets you quantize track mutes. This is useful when you want your mutes to line up with a specific time division. For example, with **Time Division** set to **1 Bar**, your mutes will always align with the beginning of the measure immediately after you press the pad.

Tap **Time Division** at the bottom of the screen, and select a value from **1**/**16** to **2 Bars** (**T** indicates a triplet-based time division).

Tap **TC** at the bottom of the screen to enable or disable the Time Correct feature.

Tap **Pads: Mute/Solo** to cycle between track muting and soloing.

When using Track Soloing, tap the **Clear Solos** button to unsolo tracks that have been soloed.



Tap the **gear icon** to open the Track Mute Settings window.

Check the **Track Mute State Per Sequence** box to maintain separate track mute statuses when changing sequences. This can allow you to create unique mute setups for each sequence, providing greater flexibility in live performance and arrangement creation.

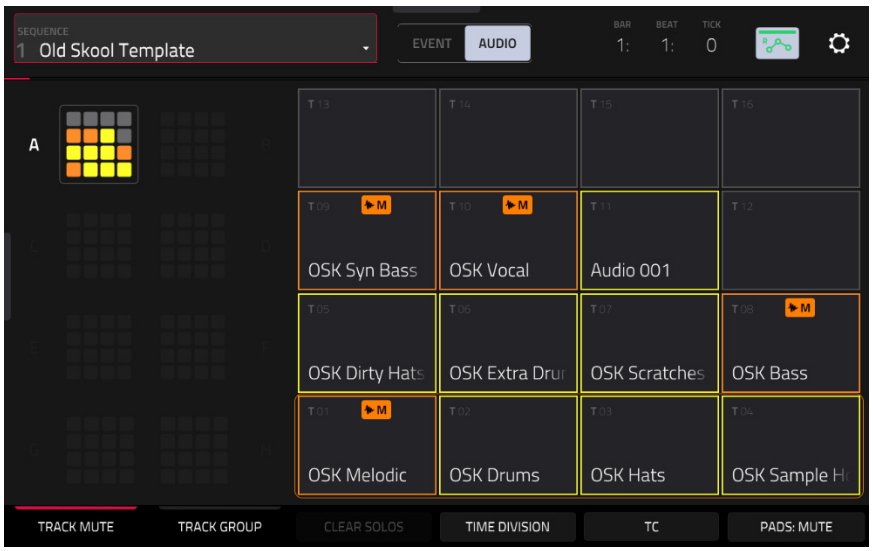
Check the **Track Mute Events Write Automation** box to capture track muting and soloing when recording automation. Make sure the **global automation button** is set to **W (write)** before recording to capture track automation.

Check the **Track Mute and Solo Events are Undoable** to allow track mute and solo status to be undone and appear in the Undo History.

Check the **Use Track Colors** box to apply each track's color to the respective pads on the Track Mute page and on your hardware.

Use the **Solo Behavior** function to select whether only a **Single** track can be soloed at a time, or multiple tracks can be soloed together (**Multi**).

Track Mute



This is useful if you want to hear a sequence without a particular track (e.g., muting your keyboard track to focus on the bass) or if you want to isolate specific sounds or combinations of sounds that are separated by track.

Tip: This function is similar to, but more convenient than, muting tracks one at a time in the ***Track View***.

To mute tracks in this mode:

1. If the **Track Mute** tab in the lower-left corner is not already selected, tap it.
2. Select the desired pad bank. Use the **Pad Bank** buttons or tap a pad bank shown on the left side of the screen.
3. Select **Event** mute or **Audio** mute using the toggle in the toolbar.
4. **To mute or unmute a track**, press the corresponding **pad** or tap it on the screen.

   Pads for muted tracks are lit **orange**. Pads for unmuted tracks are lit according to the track color (or **yellow** if the **Use Track Colors** option is disabled in the ***Settings***).

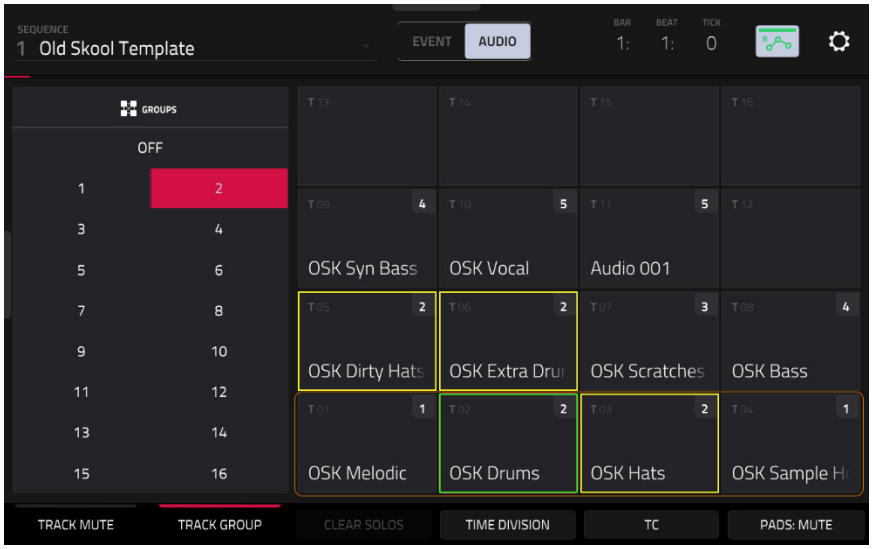
   Event mutes are indicated by a **MIDI plug** icon, and can be applied to Drum, Plugin, Keygroup, MIDI, and CV tracks. Event mutes will silence new MIDI events but allow any currently playing events to ring out naturally.

   Audio mutes are indicated by a **waveform** icon, and can be applied to Drum, Plugin, Keygroup, and Audio tracks.

   Pads for unused tracks do not show any information.

To assign tracks to track groups within this tab, turn each of the **Q-Link knobs** (when the **Screen Control** Q-Link button is selected) to assign each of the pads to a track group. The number of each pad's track group is shown in its upper-right corner.

Track Group



The track group feature extends the concept of track mutes: you can mute or unmute multiple tracks (in a single sequence) by pressing one pad that you have assigned to a track group. This is useful if you want to hear a track without a particular group of sounds or if you want to isolate specific sounds in various combinations. You can create up to 16 different track groups.

To assign tracks to track groups:

1. If the **Track Group** tab in the lower-left corner is not already selected, tap it.
2. Select the desired pad bank by using the **Pad Bank** buttons.
3. **To select a track to add to a mute group**, press the corresponding **pad** or tap it on the screen. The pad for the selected track is lit **green**. If there are other pads for tracks in the same mute group, they will flash **yellow**.
4. **To add the track to a mute group**, tap the number of the desired mute group.

   To remove the track from the mute group, tap **Off**.

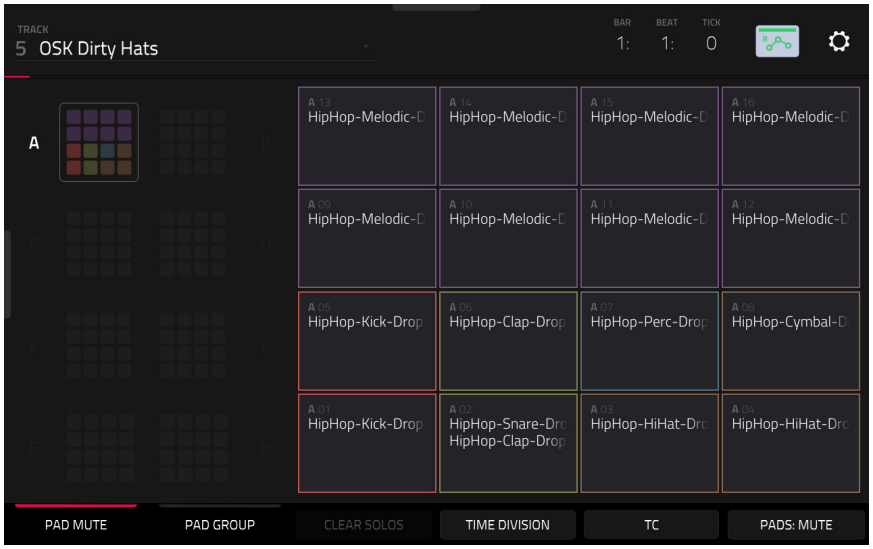
Alternatively, turn each of the **Q-Link knobs** (when the **Screen Control** Q-Link button is selected) to assign each of the pads to a track group. The number of each pad's track group is shown in its upper-right corner.

Pad Mute Mode

Pad Mute Mode lets you easily mute and solo pads within a track or set mute groups for each pad within a track.

To enter Pad Mute Mode, do either of the following:

- Press **Menu**, and then tap **Pad Mute**.
- Press **Shift** and **Track Mute/Pad Mute** (MPC X, MPC One, MPC Key 37), or **Shift** and **Mute/Pad** (MPC Key 61).



There are two tabs you can view in this mode: **Pad Mute** or **Pad Group**. Tap each button in the lower-left corner to select it. See the following ***Pad Mute*** and ***Pad Group*** sections to learn about each.

Use the **Track** field at the top of the screen to select a track. Pad Mute Mode is only compatible with Drum Tracks.

The ***Time Counter*** in the upper-right corner the current playhead position.

The **automation button** indicates the global ***Automation*** state.

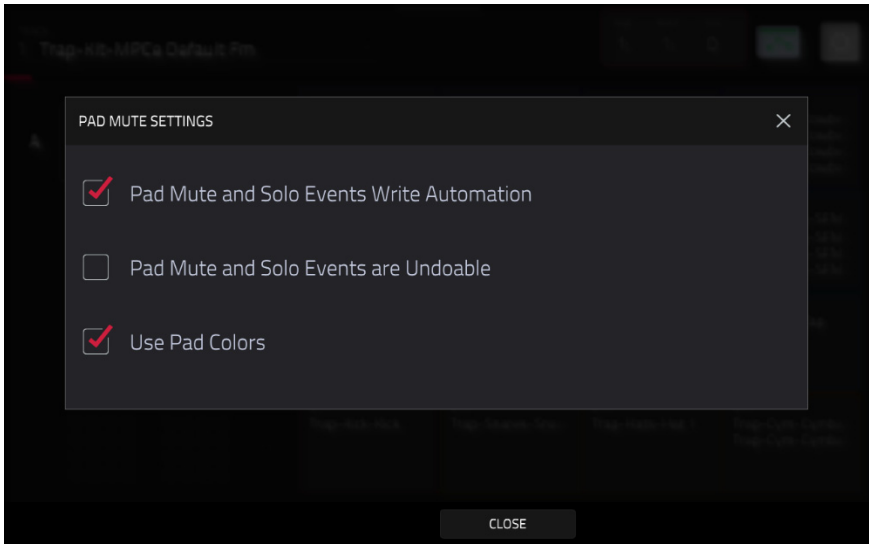
Timing Correct (TC) lets you quantize pad mutes. This is useful when you want your mutes to line up with a specific time division. For example, with **Time Division** set to **1 Bar**, your mutes will always align with the beginning of the measure immediately after you press the pad.

Tap **Time Division** at the bottom of the screen, and select a value from **1/16** to **2 Bars** (**T** indicates a triplet-based time division).

Tap **TC** at the bottom of the screen to enable or disable the Time Correct feature.

Tap **Pads: Mute/Solo** to cycle between pad muting and soloing.

When using Track Soloing, tap the **Clear Solos** button to unsolo pads that have been soloed.



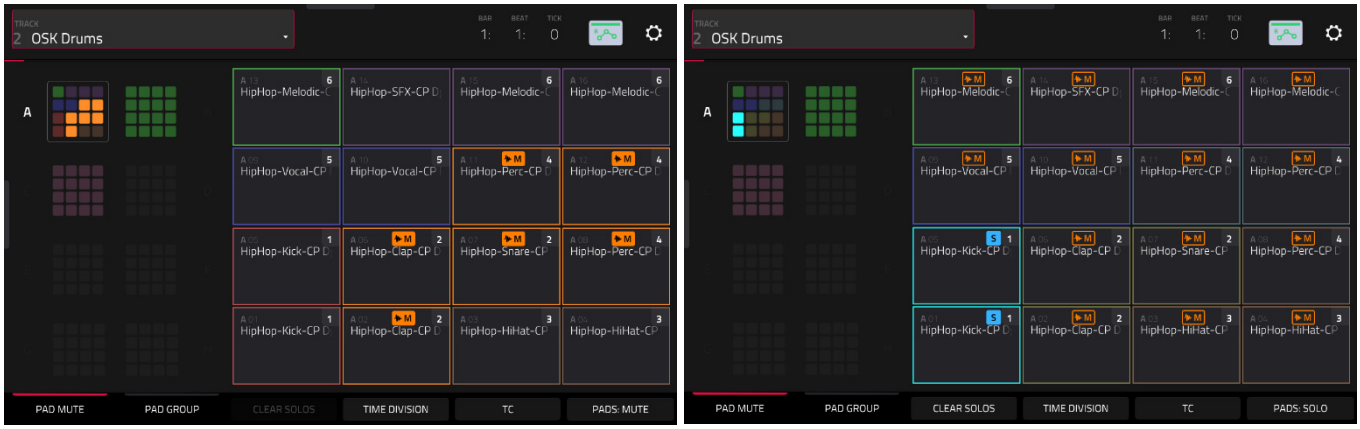
Tap the **gear icon** to open the Pad Mute Settings window.

Check the **pad Mute and Solo Events Write Automation** box to capture pad muting and soloing when recording automation. Make sure the **global automation button** is set to **W (write)** before recording to capture pad automation.

Check the **Pad Mute and Solo Events are Undoable** to allow pad mute and solo status to be undone and appear in the Undo History.

Check the **Use Pad Colors** box to apply each pad's color to the respective pads on the Pad Mute page and on your hardware.

Pad Mute



You can mute or unmute individual sounds (on a single track) in real time by pressing the pads. This is useful if you want to hear a track without a particular sound or if you want to isolate specific sounds or combinations of sounds.

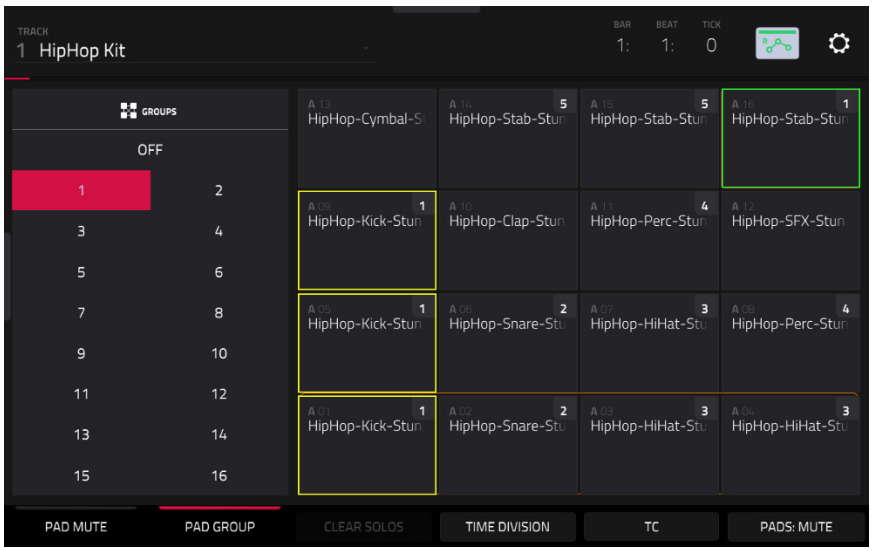
Tip: This function is similar to muting pads one at a time in the grid—but more convenient.

To mute pads in this mode:

1. If the **Pad Mute** tab in the lower-left corner is not already selected, tap it.
2. Select the desired pad bank. Use the **Pad Bank Buttons** or tap a pad bank shown on the left side of the screen.
3. **To mute or unmute a pad's sound**, press it or tap it on the screen. Muted pads are lit **orange**. Unmuted pads tracks are lit according to the pad color (or **yellow** if the **Use Pad Colors** option is disabled in the ***Settings***). Unused pads do not show any sample names.

To assign pads to pad groups within this tab, turn each of the **Q-Link knobs** (when the **Screen Control** Q-Link button is selected) to assign each of the pads to a pad group. The number of each pad's group is shown in its upper-right corner.

Pad Group



The pad group feature extends the concept of pad mutes: you can mute or unmute multiple pads (on a single track) by pressing one pad that you have assigned to a mute group. This is useful if you want to hear a track without a particular group of sounds or if you want to isolate specific sounds in various combinations. You can create up to 16 different pad groups.

To use pad groups:

1. If the **Pad Group** tab in the lower-left corner is not already selected, tap it.
2. Use the **Pad Bank** buttons to select the desired pad bank.
3. **To select a pad to add to a mute group**, press it or tap it on the screen. The selected pad is lit **green**. If there are other pads in the same mute group, they will flash **yellow**.
4. **To add the pad to the mute group**, tap the number of the desired mute group on the left side of the screen. **To remove it from the mute group**, tap **Off**.

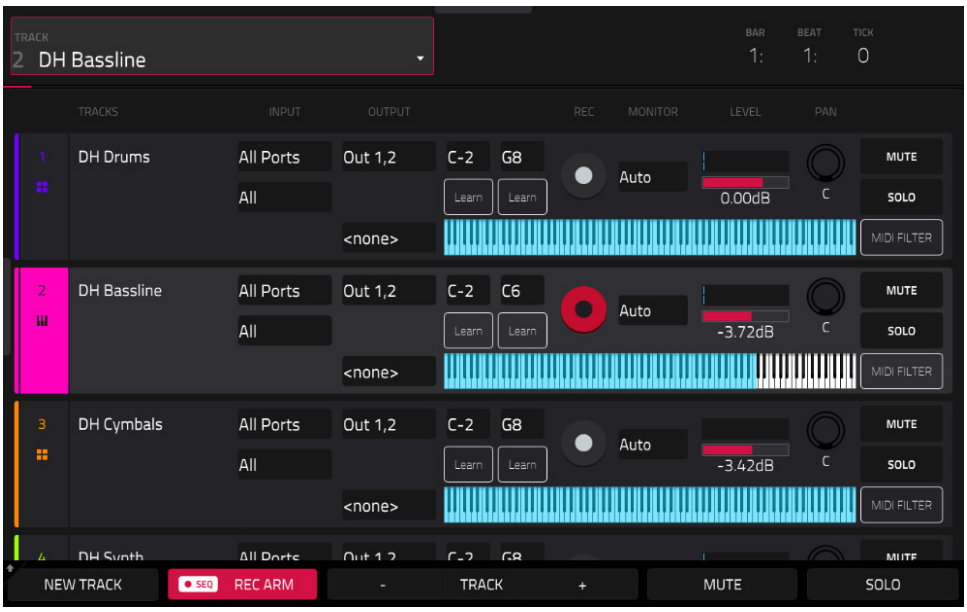
Alternatively, turn each of the **Q-Link knobs** (when the **Screen Control** Q-Link button is selected) to assign each of the pads to a pad group. The number of each pad's group is shown in its upper-right corner.

Track View

Track View gives you an overview of the tracks of each sequence. Use this mode to edit tracks and sequences simultaneously.

To enter the Track View, do either of the following:

- Press **Menu**, and then tap **Track View**.
- Press **Shift** and **Main/Track** (MPC X, MPC Live, MPC Key 61, MPC Key 37).



Each horizontal strip represents a track in the current sequence.

To move through the list of tracks, swipe up or down. You can also use the **Track** field at the top of the screen.

The top of the screen shows the track name and timing information.

Use the **Track** field to select the track in focus.

The ***Time Counter*** at the top of the screen indicates the current playhead position.

The bottom of the Track View screen contains the following functions:

Tap the **New Track** button to add a new track.

Tap the **Rec Arm** button to arm the sequence for recording.

Tap the **Track –** or **Track +** buttons to select the previous or next track (respectively). Alternatively, tap the track in the main part of the screen.

Tap **Mute** to mute the current track.

Tap **Solo** to solo the current track, muting all other tracks.

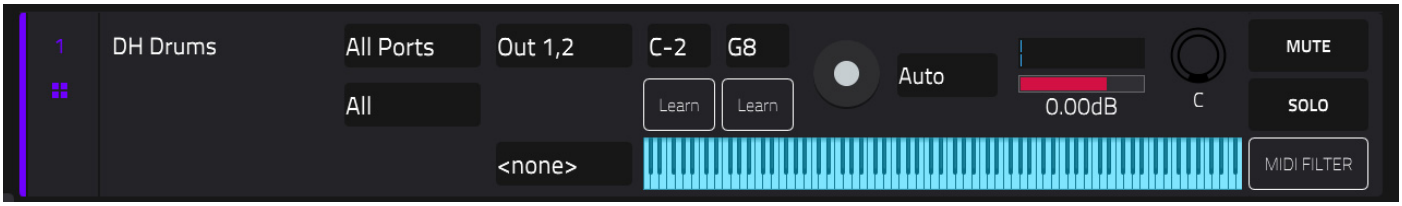
Press and hold **Shift** to access the following additional functions:

Tap **Duplicate Track** to immediately create an identical track on a new track.

Tap **TC** to open the ***Timing Correct (TC)*** settings.

Tap **Click** to open the ***Metronome (Click/Metro)*** settings.

Tap **Track Settings** to open the Track Settings window for the current track.



Use the **Input** field to set the track's MIDI or Audio input/inputs. For MIDI Inputs, you can also select the channel that the track will use.

Use the **Output** field to set the track's MIDI or Audio output/outputs. For MIDI Inputs, you can also select the channel that the track will use.

Use the **Key Range** fields to set the incoming range of notes that will be sent to the track (not available for Audio tracks). You can tap the low and high key fields and then use the **data dial** or **+/-** buttons, or tap the **Learn** button and use a connect MIDI device to set the key range. The set range will be shown in the keys diagram.

Use the **Arm** button to record-enable the track. When you begin recording, the MIDI input will be recorded to this track. You can select multiple tracks by pressing and holding **Shift** while tapping the **Arm** button to each track.

Use the **Monitor** button to set how your track will be monitored. Tapping it will cycle through its four states:

When set to **Off**, the track's input is not monitored, and playback of recorded events will be heard.

When set to **In**, the track's input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.

When set to **Auto**, the track's input is monitored when the track is record armed, and playback of recorded events will be heard.

When set to **Merge**, the track's input is always monitored, and playback of recorded events will be heard.

Use the **level slider** to change the level of the track. The level meter above the slider shows the track's current level.

Use the **pan knob** to change the stereo panning of the track (not available for CV tracks).

Use the **Solo** and **Mute** buttons to solo or mute the track (respectively).

Alternatively, tap **Mute** or **Solo** (respectively) at the bottom of the screen to mute the currently selected track.

Tap the **MIDI Filter** button to open the Track MIDI Perform Settings window, where you can set parameters for incoming MIDI data.

- **Note Range:** This determines the **Note Min** and **Note Max** range that passes MIDI. Notes outside this range will not be heard in the track. You can also adjust this directly from Track View by using the **Keyrange** fields. Tap **Learn** and press the desired note for the Min and Max values.
- **Velocity Range:** This determines the **Velocity Min** and **Velocity Max** that passes MIDI. Velocities outside this range will not be heard in the track.
- **MIDI CC Filter:** Check these boxes to allow the listed MIDI Control Change messages to pass through the track. When unchecked, the MIDI CC message type will be ignored by the track. You can filter the following MIDI CC messages:

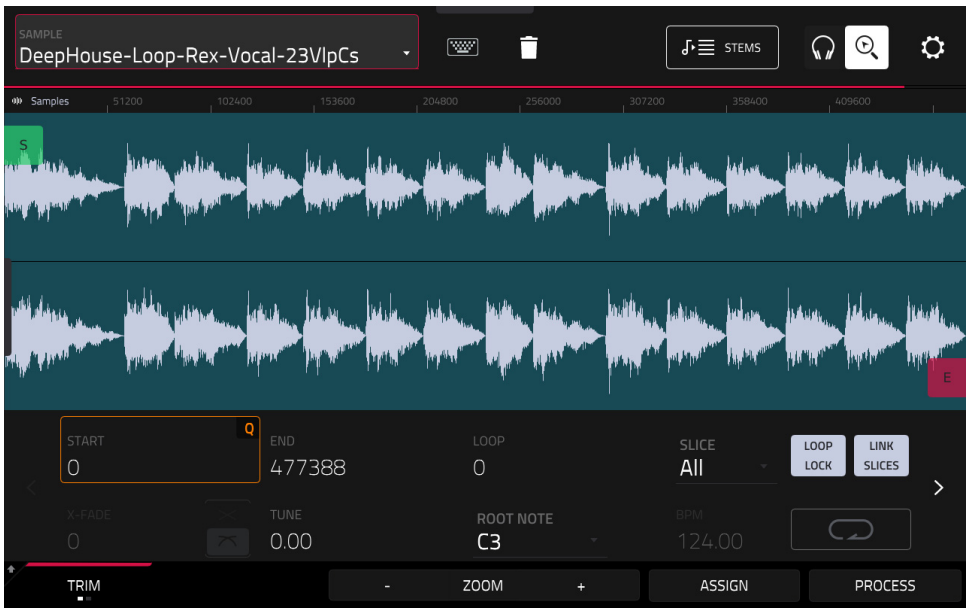
CC1 Modulation	CC65 Pmento (Portamento) On/Off
CC2 Breath	CC66 Sost (Sostenuto) On/Off
CC3 Undefined	CC67 Soft Ped (Soft Pedal) On/Off
CC4 Foot	CC68 Legato Switch
CC5 Portamento	CC128 Pitchbend
CC7 Volume	CC130 Program Change
CC10 Pan	CC129 Channel Pressure
CC11 Expression	CC131 Aftertouch
CC64 Sustain On/Off	

Sample Edit Mode

Sample Edit Mode lets you edit samples using various functions.

To enter Sample Edit Mode, do any of the following:

- Press **Menu**, and then tap **Sample Edit**.
- Press **Sample Edit** (MPC X, MPC One, MPC Key 61, MPC Key 37) or **Shift** and **Mute/Sample Edit** (MPC Live II).



To select a sample to edit, use the **Sample** field at the top of the screen.

To edit the name of the sample, tap the **keyboard icon** next to the name at the top of the screen, and use the virtual keyboard that appears.

To delete the sample, tap the **trash-can icon** next to the name at the top of the screen. In the screen that appears, you will see the tracks that use this sample within your project. Tap **Delete Sample** to continue, or tap **Cancel** to return to the previous screen.

Tap the **Stems** icon to open the Create Stems Function in the Process Sample window. Learn more about this in ***Processing Slices & Samples***.

Note: To purchase MPC Stems, visit **akaipro.com/stems**, and then activate your purchase in the ***Menu > Preferences > Activate Plugins*** menu.

The upper half of the screen shows the waveform. The lower half shows the editing controls.

The waveform display shows the "active" section of the sample waveform. Swipe left or right on the waveform to move through it.

Above the waveform is the timeline, shown in **Samples**, **Time** (in seconds and milliseconds), or **Beats**. You can select the measurement units you want to show in the ***Settings***.

To zoom in or out, do any of the following:

- When the **magnifying-glass icon** (in the upper-right corner) is selected, spread or pinch your fingers (respectively) on the waveform.
- Tap the **Zoom +** or **Zoom –** buttons (respectively) at the bottom of the screen.
- Turn **Q-Link Knob 4** (**Zoom** on MPC X) or the **fourth Q-Link knob** in the **fourth column** (MPC Live/Live II/One/ Key 61/Key 37).

To scroll through the waveform, do either of the following:

- When the **magnifying-glass icon** (in the upper-right corner) is selected, swipe the waveform left or right.
- Turn **Q-Link Knob 8** (**Scroll** on MPC X) or the **third Q-Link knob** in the **fourth column** (MPC Live/Live II/One/ Key 61/Key 37).

The green marker and red marker are the start point and end point (respectively). These two points define the region of the sample that will be played.

To move the start point or end point of the selected region, do any of the following:

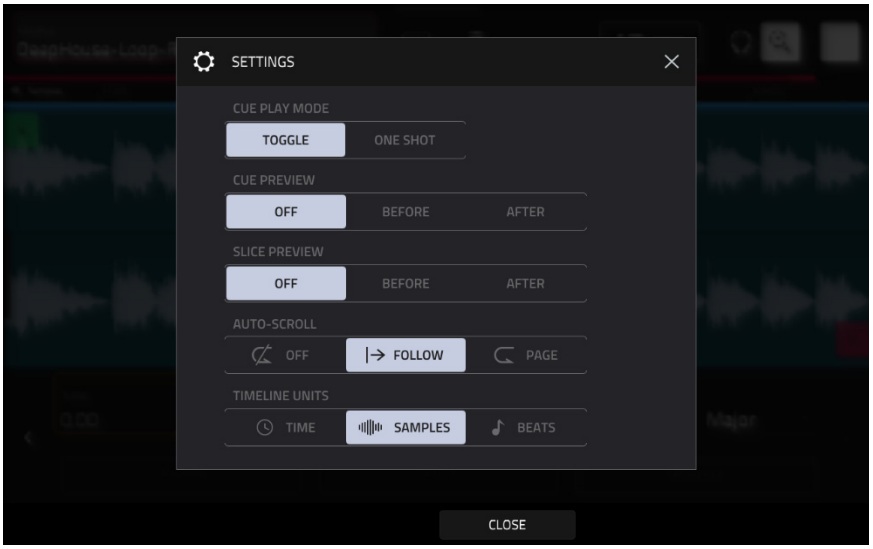
- Tap and drag its marker left or right.
- Use the **Start** or **End** fields shown below the waveform.
- Use the **first** column of **Q-Link knobs** (**Start X1**__) to adjust the start point or the **second** column of **Q-Link knobs** (**End X1**__) to adjust the end point. The top-most **Q-Link knobs** (**13** and **14**) provide coarse adjustment. The bottom-most **Q-Link knobs** (**1** and **2**) provide fine adjustment.

Tip: A recorded sample may have some silence at the beginning or end, which makes it difficult to time it correctly in a musical context. Fix this by adjusting the start point. You can also adjust end point to remove any extra silence or unwanted audio at the end. In addition to making your workflow easier, having a "tight," well-edited sample can enhance your production or performance.

You can use Sample Edit Mode in three different ways: **Trim Mode**, **Chop Mode**, or **Pad Mode**. The options for each mode are slightly different. Please refer to the following ***Trim Mode***, ***Chop Mode***, and ***Pad Mode*** parts of this chapter to learn how each works. Before using these modes, though, you may want to configure your settings—see the following ***Settings*** chapter to do this.

Settings

Tap the **gear icon** to open the Settings window, where you can configure certain Sample Edit Mode settings.



Use the **Cue Play Mode** selector to set how the cue playhead will play audio.

One Shot: Tapping **Play Cue** will play the entire sample from the cue playhead.

Toggle: Tapping **Play Cue** once will start playback from cue playhead. Tapping it once more will stop playback.

Use the **Cue Preview** selector to set if any audio plays as you move the cue playhead. As you move the cue playhead through the sample waveform, you can set it to play the small part of the sample before the cue playhead (**Before**), play the small part of the sample after the cue playhead (**After**), or not play at all (**Off**). You can also set this in your overall Preferences (see ***General Features*** > ***Menu*** > ***Preferences*** > ***General***).

Use the **Slice Preview** selector to set if any audio plays as you move a slice marker. As you move the slice marker through the sample waveform, you can set it to play the small part of the sample before the slice marker (**Before**), play the small part of the sample after the slice marker (**After**), or not play at all (**Off**). You can also set this in your overall Preferences (see ***General Features*** > ***Menu*** > ***Preferences*** > ***General***).

Use the **Auto-Scroll** selector to set how the screen behaves relative to the audio playhead.

Follow: Depending on the zoom setting, the waveform will scroll along in the background, keeping the audio playhead centered.

Page: The waveform display will move to the “next page” to follow the audio playhead.

Off: The waveform display will not move at all.

These functions also apply to the sample waveform in the Grid View.

Use the **Timeline Units** selector to set the measurement units shown above the sample waveform. You can select one of the following options:

Time: hours:minutes:seconds:frames

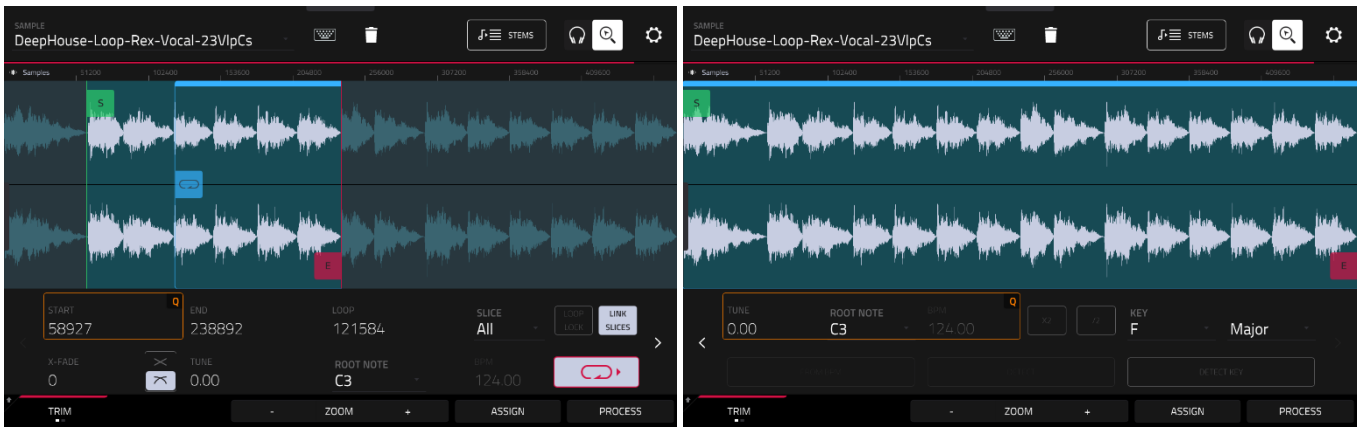
Samples: number of samples

Beats: bars:beats:ticks

Trim Mode

We recommend using Trim Mode to crop the start and/or ends from a sample.

To enter Trim Mode, tap the **Trim/Chop** button in the lower-left corner so it says **Trim**. There are two pages of parameters in Trim Mode, which can be accessed by tapping the **>** or **<** arrows on the sides of the page.



Use the **Start** and **End** fields to set the position of the start point and end point of the sample (respectively). Alternatively, tap and drag the start (**S**) or end (**E**) marker left or right, or use the **first** column of **Q-Link knobs** (**Start X1**__) to adjust the start point or the **second** column of **Q-Link knobs** (**End X1**__) to adjust the end point.

Trim Mode includes a loop function. When on, the region of the sample between the loop point and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

To adjust the loop point, do any of the following:

- Use the **Loop** field.
- Tap and drag the start (**S**) marker (if **Loop Lock** is on) or the **loop** marker (if **Loop Lock** is off).
- Use the **first** column of **Q-Link knobs** (**Start X1**__; if **Loop Lock** is on) or the **third** column of **Q-Link knobs** (**Loop X1**__; if **Loop Lock** is off). The top-most **Q-Link knobs** (**13** and **15**) provide coarse adjustment. The bottom-most **Q-Link knobs** (**1** and **3**) provide fine adjustment.

Tap the **Loop Lock** button to turn Loop Lock on or off. When on, the loop point is the same as the start point. When off, the loop point is independent from the start point and indicated by a separate loop marker.

Tap the **Loop** button to turn the loop function on or off and cycle between the four modes:

Off: The sample will not loop.

Forward: When the loop reaches its end point, it will start playing again from the loop point.

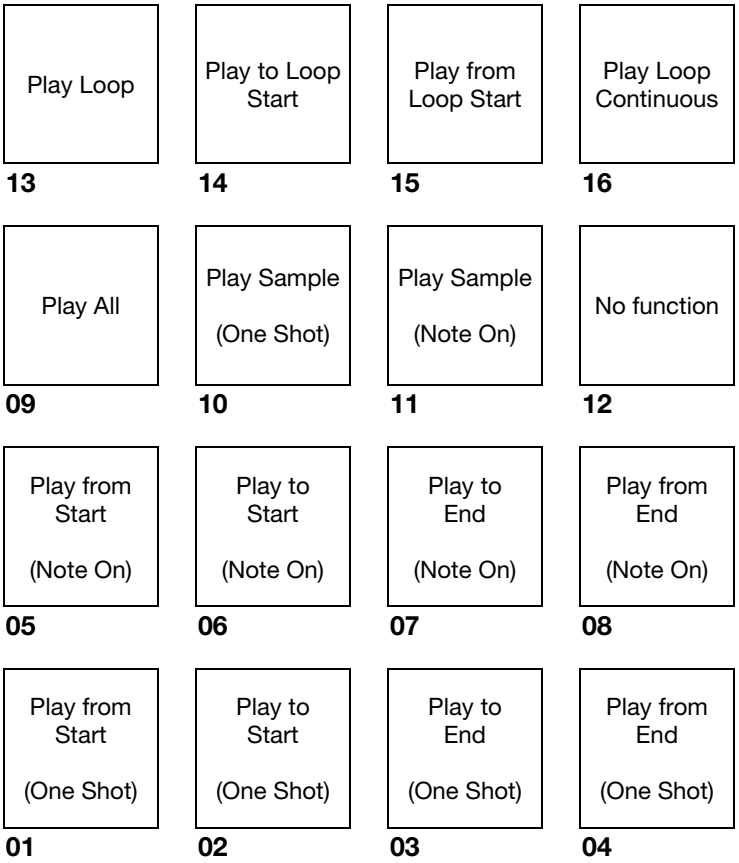
Reverse: When the loop reaches its end point, it will play in reverse. When it reaches the loop point again, it will return to the end point and continue playing in reverse.

Alternating: When the loop reaches its end point, it will play in reverse. When it reaches the loop point again, it will start playing forward again from the loop point.

To switch between Forward and off, press and hold **Shift**, and then tap **Loop** at the bottom of the screen.

Use the **X-Fade** field to apply real-time crossfade looping to sample playback. To apply a crossfade, make sure the **Loop** starting point is greater than zero. Then, you can set the **Length** of the crossfade and the **Type**, either **Equal Power** or **Linear**.

Use your MPC hardware pads to play certain parts of the selected sample:



Play Sample (**One Shot**) (**Pad 10**) plays the sample once from the start point to the end point. Press the pad once to play it.

Play Sample (**Note On**) (**Pad 11**) plays the sample once from the start point to the end point. Press and hold the pad to play it, and release the pad to stop playing it. Alternatively, select the **headphones icon** in the upper-right corner, and then tap and hold your finger on the waveform.

Play Loop Continuous (**Pad 16**) plays the sample repeatedly using the mode set by the **Loop** button (**Forward**, **Reverse**, or **Alternating**; if the **Loop** button is **off**, the sample will loop forward repeatedly).

Play Loop (**Pad 13**) plays the sample repeatedly using the mode set by the **Loop** button (**Forward**, **Reverse**, or **Alternating**; if the **Loop** button is off, the sample will loop forward repeatedly). Press and hold the pad to play it, and release the pad to stop playing it.

Play to Loop Start (**Pad 14**) plays the part of the sample just before the loop point. Press and hold the pad to play it, and release the pad to stop playing it.

Play from Loop Start (**Pad 15**) plays the sample from the loop point to the end of the sample regardless of the end point. Press and hold the pad to play it, and release the pad to stop playing it.

Play All (**Pad 9**) plays the entire sample.

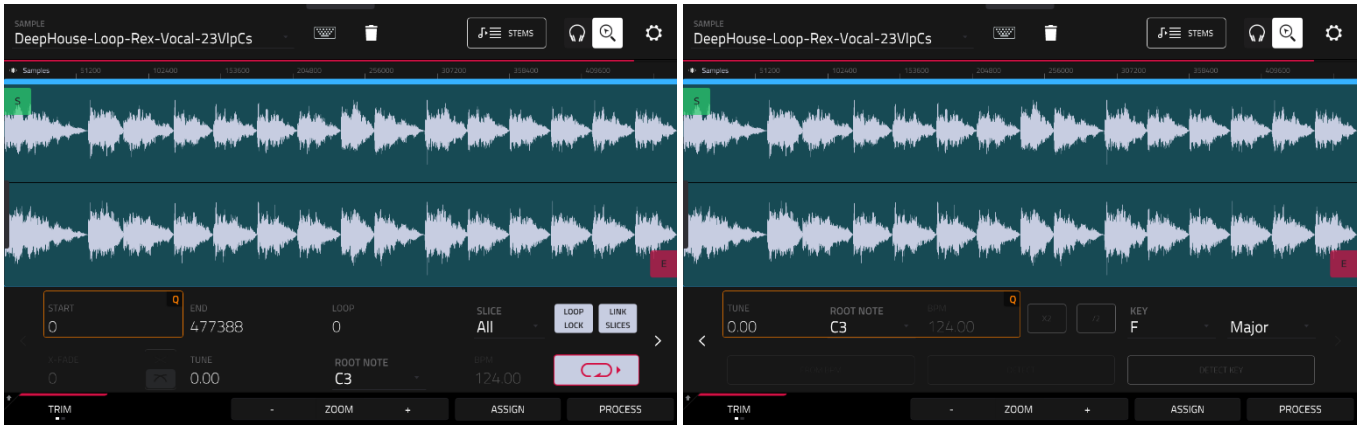
Pads 1–4 have the same respective functions as **Pads 5–8**, but **Pads 1–4** play the sample part as "**One Shots**" (pressing the pad once will play the entire part) while **Pads 5–8** play the sample part as "**Note Ons**" (pressing the pad and holding it will play the part; releasing it will stop playback):

Play from Start (**Pad 1**, **Pad 5**) plays the sample from the start point to the end point.

Play to Start (**Pad 2**, **Pad 6**) plays the part of the sample just before the start point to the start point.

Play to End (**Pad 3**, **Pad 7**) plays the part of the sample just before the end point to the end point.

Play from End (**Pad 4**, **Pad 8**) plays the part of the sample from the end point to the end of the sample.



To select a slice to edit, do either of the following (after you have created slices in Chop Mode):

- Use the **Slice** field.
- Turn **Q-Link Knob 16** (**Select Slice** on MPC X) or the **fourth Q-Link knob** in the **fourth column** (MPC Live/Live II/One/Key 61/Key 37).

When **Link Slices** is enabled (after you have created slices in Chop Mode), changing the start point of a slice will also change the end point of the previous slice. Similarly, changing the end point of a slice will also change the start point of the next slice. Disable **Link Slices** if you are trying to create slices that use non-contiguous parts of the sample.

To enable or disable this feature, tap the **Link Slices** button.

Important: **Link Slices** must be disabled to make slices non-sequential, noncontiguous, or overlapping.

Use either of the **Tune** fields to transpose the sample up or down from its original pitch.

Use either of the **Root Note** fields to set the root note of the sample. This defines which note will play the sample at its original pitch when in a keygroup track.

Use either of the **BPM** fields to manually set the BPM of the sample. On the second Trim Mode page, use the **X2** and **/2** buttons to double of halve the current tempo.

Use the **Key** fields to enter a sample key manually. One field selects the key root note, and the other field selects whether the key is **Major**, **Minor,** or off (--).

Tap **Detect Key** to detect the key automatically.

0 Snap forces start points, end points, and loop points to occur only at the waveform's "zero-crossings." This can help to avoid clicks and glitches when playing a sample.

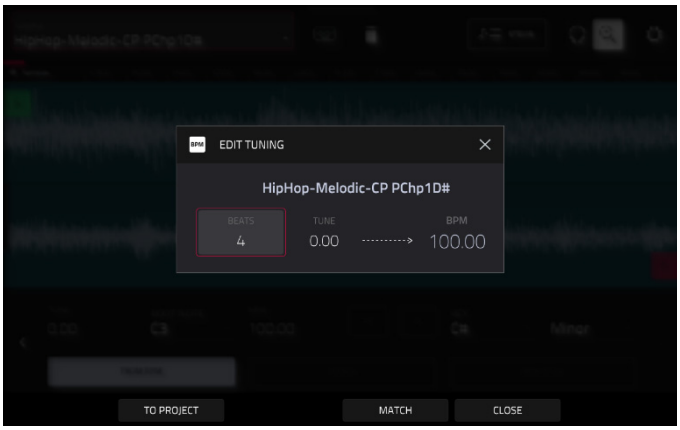
To enable or disable 0 Snap, press and hold **Shift**, and then tap **0 Snap** at the bottom of the screen.

Tip: You can use Trim Mode for a specific slice of the sample, previously created and selected in Chop Mode. This allows for a more detailed view of a single slice than in Chop Mode and gives you more options for auditioning the slice. You can easily switch between Trim Mode and Chop Mode while doing this.

To use both Trim Mode and Chop Mode to edit a sample slice:

1. Tap **Trim**/**Chop** at the bottom of the screen so it says **Chop**.
2. Set all fields as desired to create your sample slices.
3. Select the desired slice using the **Slice** field.
4. Tap **Trim**/**Chop** at the bottom of the screen so it says **Trim**. The region you are now editing is indicated by the normal start point and end point markers rather than slice markers.
5. Tap **Trim**/**Chop** at any time to return to Chop Mode.

Tap **From BPM** to open the **Edit Tuning** window, which lets you tune a sample to the project.



Use the **Beats** field to match the number of beats in the sample.

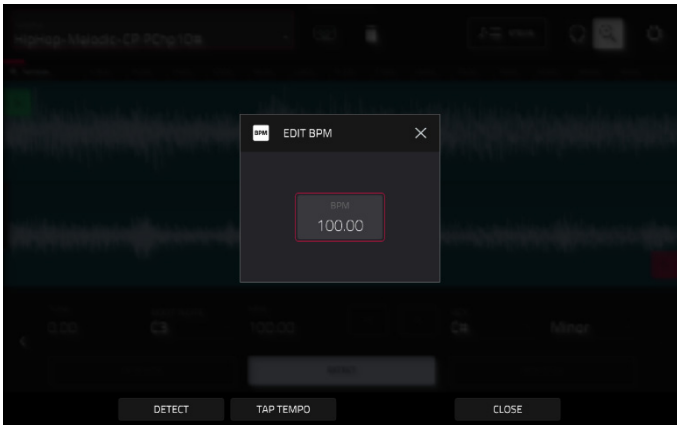
Tap **Match** to tune the sample to the project. The **Tune** field will adjust automatically and close the window. The sample is now tuned to the project.

Tap **To Project** to tune the sample to the project and adjust the project tempo. This is the same as tapping Match, but it also changes the project's tempo to the BPM shown in the Tempo field on the right.

Tap **Close** to close the window.

Use the **BPM** field to enter a tempo manually.

Tap **Detect** to detect the tempo automatically. In the **Edit BPM** window that appears, you can do any of the following:



- Use the **BPM** field to enter a tempo manually.
- Tap **Detect** to detect the tempo automatically.
- Tap **Tap Tempo** at the bottom of the screen at the desired rate to use it as the tempo.
- Tap **Close**, the **X**, or anywhere outside the window to close it.

Assigning Samples

You can assign your new sample directly to a pad from Trim Mode.

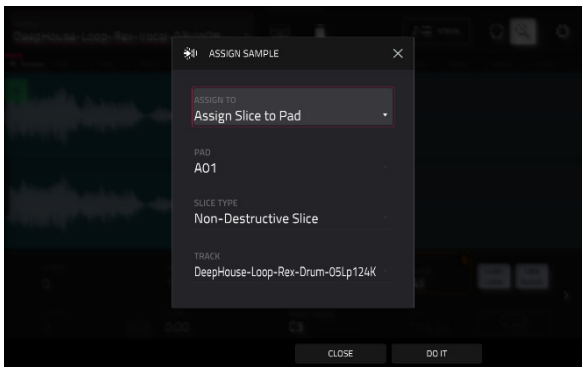
To assign a sample, tap **Assign** at the bottom of the screen to open the Assign Sample window.

Important: Assigning a sample to a pad in this way will replace the sample on the first layer of the pad.

Tap **Do It** to assign the sample using the selected process.

Tap **Close**, the **X**, or anywhere outside the window to cancel the operation.

If you set the **Assign To** field to **Assign slice to a pad**, the pad will simply refer to the slice in this sample instead of creating a new sample. This is useful for reducing clutter in your project.



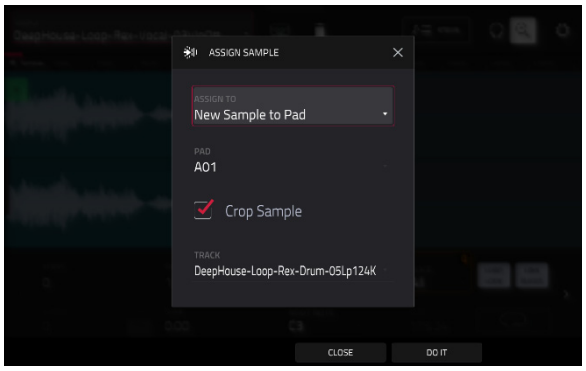
Use the **Pad** field to select the desired pad. Alternatively, press the desired pad.

Use the **Slice Type** field to select how the pad's layer settings will be set when the slice is assigned to it (see ***Track Edit Mode*** to learn more about the parameters mentioned below):

- **Non-Destructive Slice**: The pad's **Slice** setting will be set to the slice number.
- **Pad Parameters**: The pad's **Slice** setting will be set to **Pad**. The **Pad Start** and **Pad End** will be set to the slice's start point and end point values, and the **Loop Position** will be set to the slice's start point but with **Pad Loop** deactivated.

Use the **Track** field to specify the track to which you want to add the slice.

If you set the **Assign To** field to **New Sample to Pad**, this will create a new sample in your project. (The original sample will remain as it is.)



Use the **Pad** field to select the desired pad. Alternatively, press the desired pad.

Check the **Crop Sample** box to delete the unused parts from the sample when it's created and assigned. This feature is destructive, though the project will still contain your original sample.

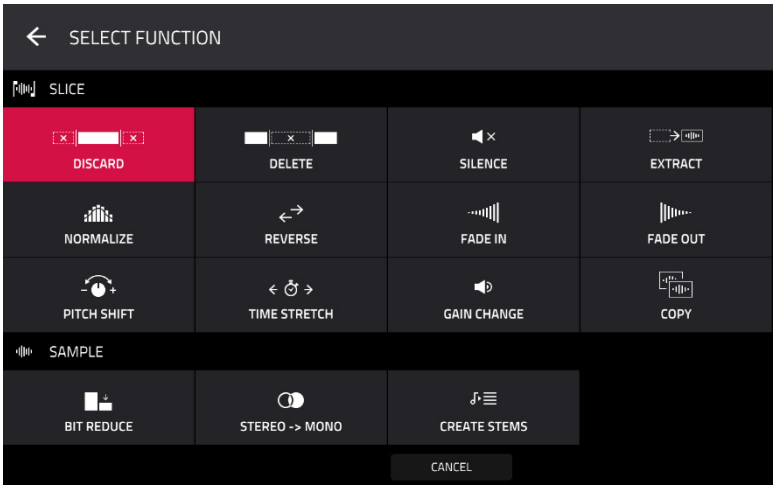
Leave this box unchecked to keep the unused parts of the sample when it is created and assigned. This way, you will still be able to edit the entire sample further even though you are using only part of it at the moment.

Use the **Track** field to specify the track to which you want to add the slice.

Processing Slices & Samples

Tap the **Process** button to open the Process window, where you can select an editing option for the sample.

Use the **Function** field to select an editing process. Double-tap it or tap **Function** at the bottom of the screen to open the Function window, which displays an overview of all available editing processes.



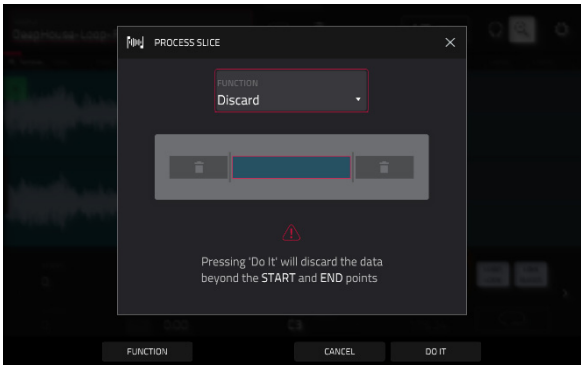
You can use any of these functions as described below.

Tap **Cancel** to return to Sample Edit Mode.

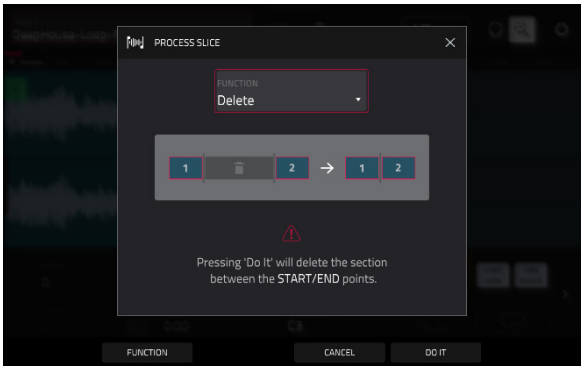
Tap the top of the screen to return to the Process window.

Note: All **Slice** processes will affect only the part of the sample between the start point and the end point. The **Sample** processes (**Bit Reduce** and **Stereo -> Mono**) will affect the **entire** sample regardless of its start point or end point.

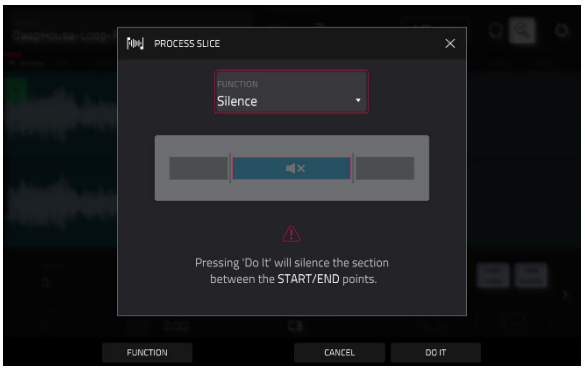
The **Discard** process deletes the regions before the start point and after the end point.



The **Delete** process deletes the region between the start point and end point and closes the gap between them.



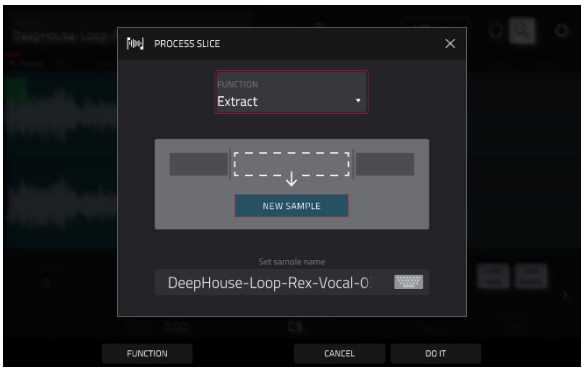
The **Silence** process replaces the region between the start point and end point with silence.



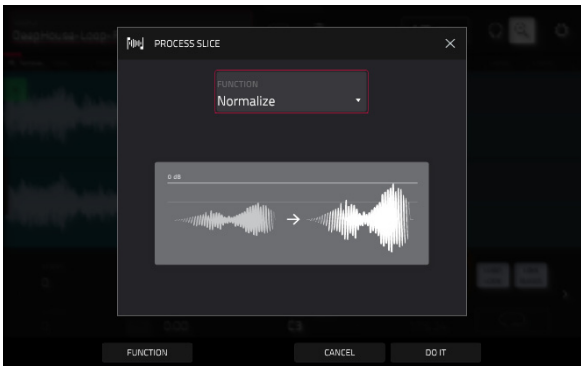
The **Extract** process deletes the regions before the start point and after the end point and saves it as a new sample in your current project.

Use the **Edit Name** field (and the virtual keyboard that appears) to name the new sample.

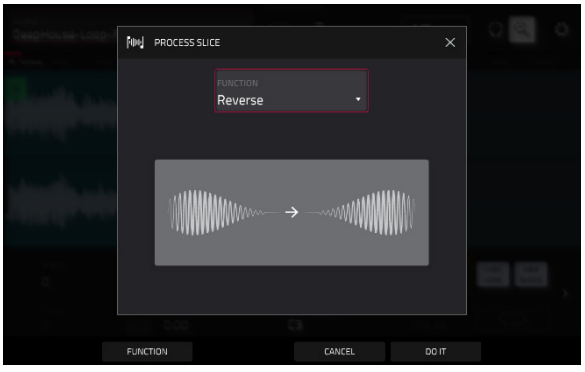
Tip: This is useful if you recorded a drum loop and wanted to remove just a snare drum hit, a kick drum hit, etc. to use separately in the project.



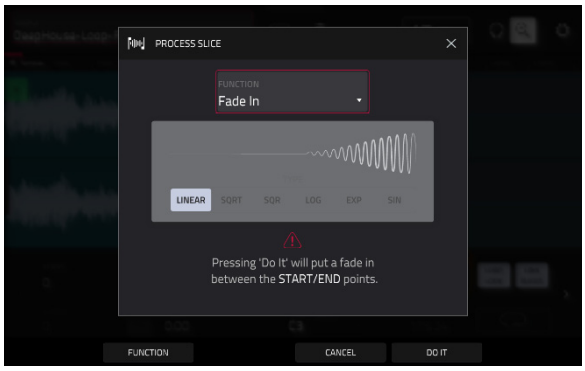
The **Normalize** process increases a sample's level to the highest level possible without distortion. This is essentially a kind of digital gain optimization, so you do not have to worry about excessive level settings when working with samples with a wide range of amplitudes.



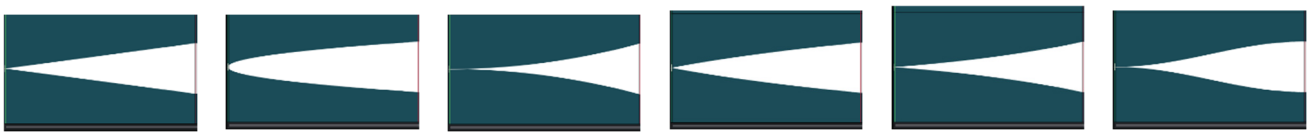
The **Reverse** process reverses the region between the start point and end point.



The **Fade In** process sets a fade-in between the start point and end point. The following types are available:

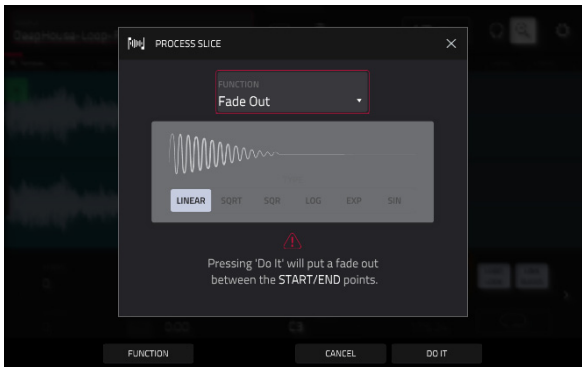


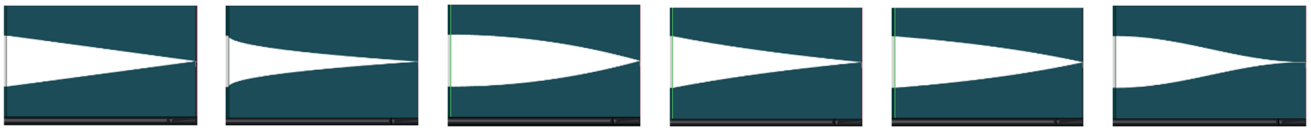
- **Linear** fades the audio in with a linear curve—a straight line between the start and end.
- **Square Root** fades the audio in with a square root curve—a half-parabola that is similar to the logarithmic curve but steeper.
- **Square** fades the audio in with a curve opposite to the square root curve. This is similar to the **exponential** curve but steeper.
- **Log** fades the audio in with a logarithmic curve—quickly rising at the start and flattening out towards the end.
- **Exp** fades the audio in with an exponential curve—slowly rising in the beginning and growing steeper towards the end.
- **Sine** fades the audio in with a sine curve—like a sine wave, it slowly rises, gets steeper in the middle, and flattens out at the end.



Linear Square Root Square Log Exp Sine

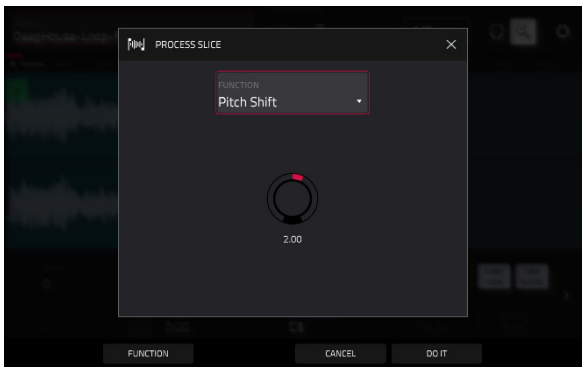
The **Fade Out** process sets a fade-out between the start point and end point. These are the same as the **Fade In** curves, but fade the audio out instead of in.





Linear Square Root Square Log Exp Sine

The **Pitch Shift** process changes the pitch of the sample without changing its length. This lets you set the sample's pitch to your project without affecting the sample's tempo or duration. You can adjust it up to 12 semitones, up or down. Keep in mind that the audio quality may decrease at more extreme settings.

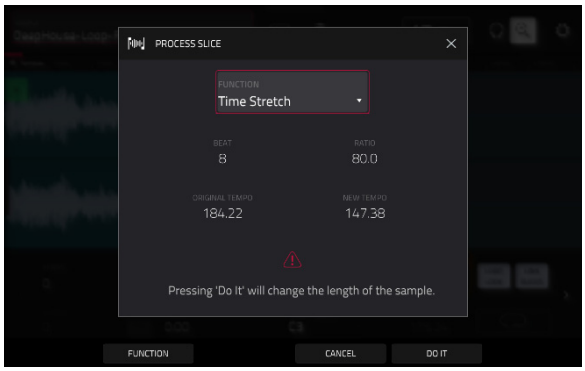


The **Time Stretch** process lengthens or shortens the sample without changing its pitch. This is useful for matching the durations of two samples with different pitches. You can enter the original tempo of the sample and the desired tempo after processing.

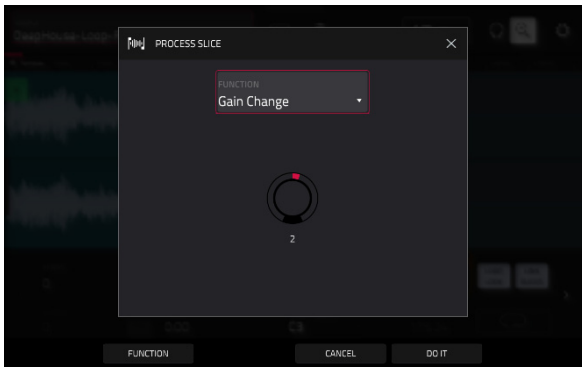
Use the **Beat** field to set the desired value number of beats.

Use the **New Tempo** field to set the new tempo. The **Ratio** field will then automatically show the time stretch factor.

Alternatively, to adjust the ratio instead, use the **Ratio** field to set the desired ratio. The **New Tempo** field will then change automatically based on the new time stretch factor.

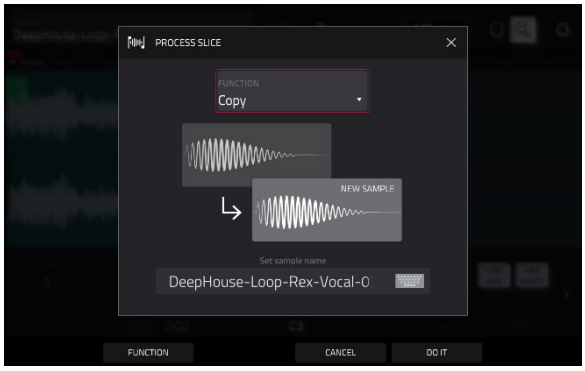


The **Gain Change** process raises or lowers the volume of the sample. You can adjust it up to 18 dB, higher or lower. This function is different than Normalize because it will allow volumes beyond clipping level. This may be a desired effect, but remember to watch your output level!

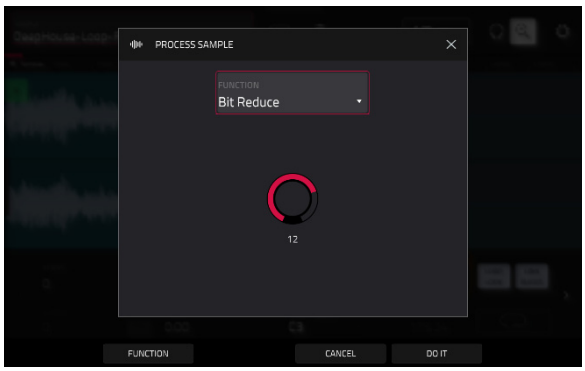


The **Copy** process saves a copy of the sample.

Use the **Edit Name** field (and the virtual keyboard that appears) to name the new sample. Otherwise, the process will add a consecutive number after the sample name.



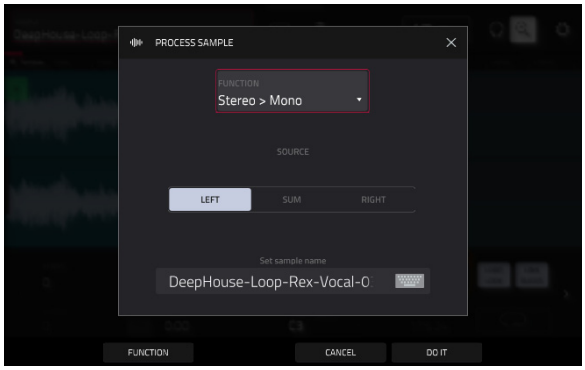
The **Bit Reduce** process lowers the bit resolution of a sample, effectively reducing its degree of faithful reproduction. You can reduce it down to **1 bit**. (The sound is similar to the Resampler effect, but Bit Reduce will permanently alter the sample.)



Tip: Use this on drum loops to get a dirty, "old-school" sizzle but with a digital "edge."

Note: This process affects the **entire** sample regardless of its start point or end point.

The **Stereo -> Mono** process converts a stereo sample to a new mono sample and saves it as a new sample.



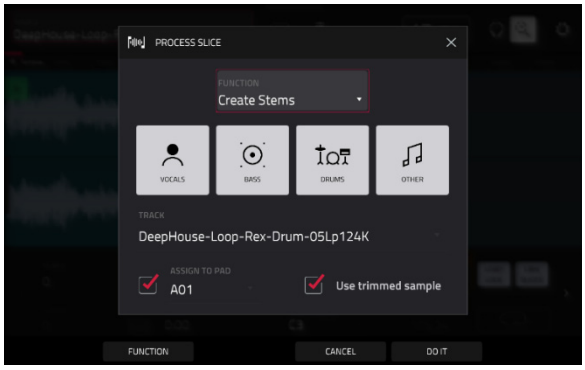
Use the **Edit Name** field (and the virtual keyboard that appears) to name the new sample. Otherwise, the process will add a consecutive number after the sample name.

The following options are available:

- **Left** will convert the left channel only.
- **Right** will convert the right channel only.
- **Sum** will combine the left and right audio channels to a single mono channel.

Note: This process affects the **entire** sample regardless of its start point or end point.

The **Stems** process isolates different parts of the sample and separates them into new stem samples.



Click the icons to select or deselect from the following elements to create stems of:

- **Vocals:** Isolate vocal elements of the track into a stem.
- **Bass:** Isolate bass elements of the track into a stem.
- **Drums:** Isolate percussive elements of the track into a stem.
- **Other:** Isolate other musical textures, such as keys or guitars, into a stem.

Use the **Track** dropdown menu to select the track where the stems will be added.

The **Assign to Pad** function determines where the stem separated samples are added. When checked, you can select a pad in the chosen Track using the dropdown menu, and the stems will be added to the first four layers of that pad. When unchecked, the stems will be added to the general project sample pool in the **Project Info** Browser.

Tap the **Use trimmed sample** box to trim the source sample between the **Start** and **End** points before applying the stem separation process.

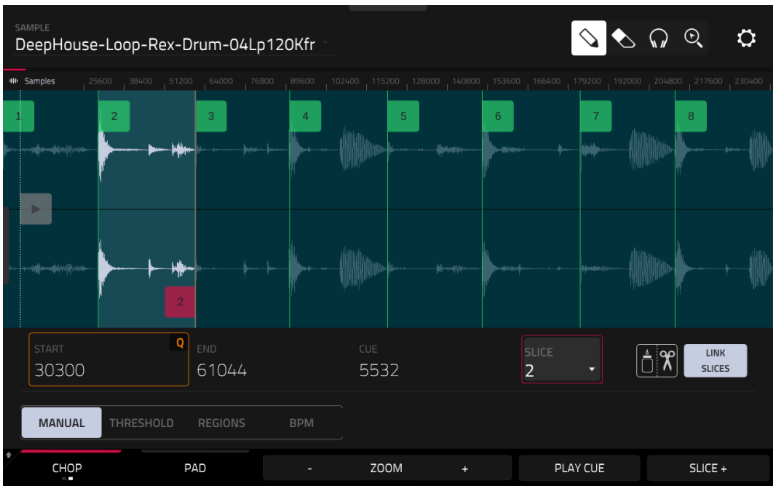
Tip: Uncheck this box if you want to retain slices with the stemmed results, otherwise, they will be bypassed.

Note: To purchase MPC Stems, visit **akaipro.com/stems**, and then activate your purchase in the ***Menu > Preferences > Activate Plugins*** menu.

Chop Mode

Whereas Trim Mode crops only the start and/or end off of a sample, Chop Mode divides the sample into multiple regions called **slices**. We recommend using Chop Mode when working with a long sample with different sounds throughout (e.g., a drum loop or a long melodic or harmonic passage).

To enter Chop Mode, tap the **Trim**/**Chop** button in the lower-left corner so it says **Chop**.



Use the **Start** and **End** fields to set the position of the start point and end point (respectively) of the currently selected slice. Alternatively, tap and drag the start (**S**) or end (**E**) marker left or right, or use the **first** column of **Q-Link knobs** (**Start X1**__) to adjust the start point or the **second** column of **Q-Link knobs** (**End X1**__) to adjust the end point.

Use the selector in the lower-left corner of the screen to choose how you want to use Chop Mode:

Manual

This method lets you insert slices at locations you select.

Threshold

This method uses an adjustable detection algorithm that derives the number of slices created from the volume levels present in the sample.

Use the **Threshold** field to set the threshold level. Alternatively, turn **Q-Link Knob 11** (**Threshold** on MPC X) or the **second Q-Link knob** in the **third column** (MPC Live/Live II/One/Key 61/Key 37). The higher the selected value, the more slices will be created.

Use the **Min Time** field to set the minimum length of a slice in milliseconds.

Regions

This method divides a sample into several slices of equal length.

Use the **Regions** field to set how many regions the sample will be divided into. Alternatively, turn **Q-Link Knob 11** (**Num Regions** on MPC X) or the **second Q-Link knob** in the **third column** (MPC Live/Live II/One/Key 61/Key 37/Touch). The higher the selected value, the more slices will be created.

BPM

This method divides a sample into several slices based on the tempo (beats per minute).

Use the **Bars** field to set how many bars are in the sample. Alternatively, turn **Q-Link Knob 11** (**Bars** on MPC X) or the **second Q-Link knob** in the **third column** (MPC Live/Live II/One/Key 61/Key 37).

Use the **Beats** field to set how many beats are in each bar. Alternatively, turn **Q-Link Knob 7** (**Beats** on MPC X) or the **third Q-Link knob** in the **third column** (MPC Live/Live II/One/Key 61/Key 37).

Use the **Time Div** field to set a note division. Alternatively, turn **Q-Link Knob 3** (**Time Div** on MPC X) or the **fourth Q-Link knob** in the **third column** (MPC Live/Live II/One/Key 61/Key 37). The slice markers will be placed according to this setting. You can select **1**/**4**, **1**/**8**, **1**/**16**, or **1**/**32**. (In most cases, you should set this parameter to **1**/**16**.)

To play a slice, do either of the following:

- Press the **pad** that corresponds to the slice. If your sample has more than 16 slices, use the additional pad banks.
- When the **headphones icon** (in the upper-right corner) is selected, tap a **slice** in the waveform.

When the **One Shot** feature is enabled, you can press a pad once to play the entire slice. When this is disabled, pressing the pad and holding it will play the slice; releasing it will stop playback.

To enable or disable One Shot, press and hold **Shift**, and then tap **One Shot**.

To select a slice to edit, do any of the following:

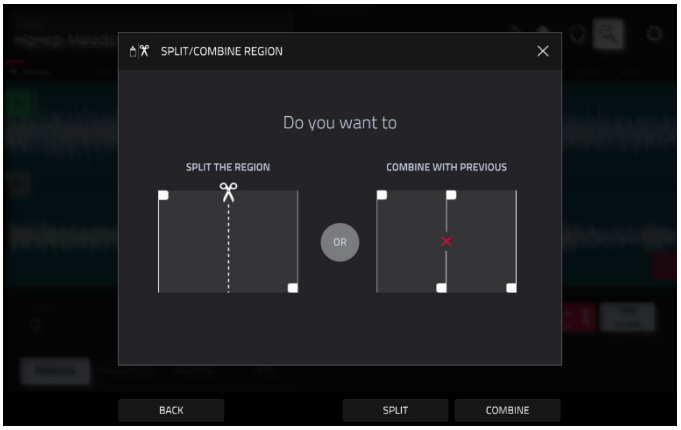
- Use the **Slice** field.
- Turn **Q-Link Knob 16** (**Select Slice** on MPC X) or the **first Q-Link knob** in the **fourth column** (MPC Live/Live II/One/Key 61/Key 37).
- When the **headphones icon** (in the upper-right corner) is selected, tap a **slice** in the waveform.

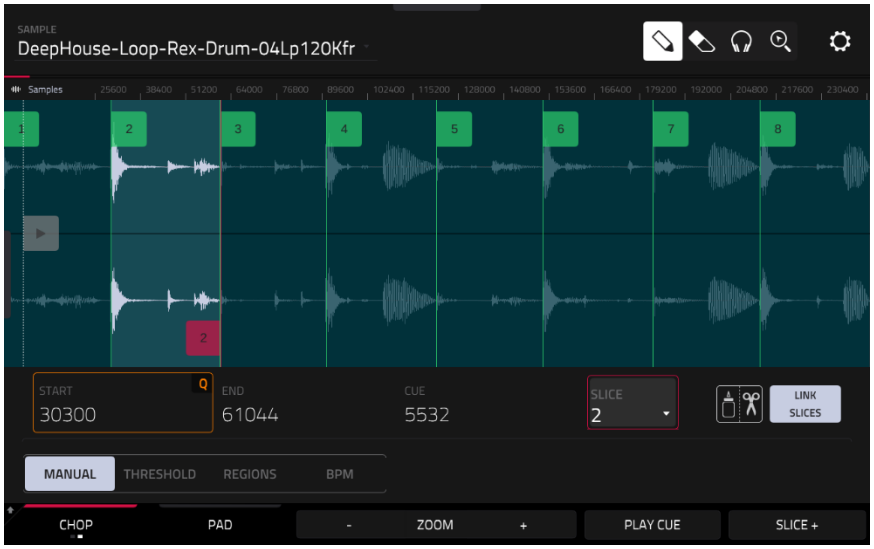
To add a slice at the current playhead position, tap **Slice+** at the bottom of the screen. You can do this at any point during sample playback.

To insert a slice marker during sample playback, press an **unlit pad** (usually **Pad 1**) to start playback of the sample, and then press an **unlit pad** during playback to place a slice marker at each location of the playhead. (If you press a lit pad, playback will restart from that pad's corresponding slice marker.) The number of the pad that is lit **green** is the number of the most-recently inserted slice marker. The numbers of the pads that are lit **yellow** are the numbers of the slice markers that are already inserted.

To split or combine slices, tap the **glue-and-scissors icon**. In the **Split/Combine Region** screen that appears, tap one of the following buttons:

- **Split**: This splits the currently selected region into two equal slices.
- **Combine**: This combines the currently selected region with the one before it.
- **Back**: This closes the window.





When **Link Slices** is enabled, changing the start point of a slice will also change the end point of the previous slice. Similarly, changing the end point of a slice will also change the start point of the next slice. Disable **Link Slices** if you are trying to create slices that use non-contiguous parts of the sample.

To enable or disable this feature, tap the **Link Slices** button.

Important: **Link Slices** must be disabled to make slices non-sequential, noncontiguous, or overlapping.

To remove all slices from a sample, press and hold **Shift** and tap **Clear All**.

The cue playhead is useful when manually inserting slice markers. You can set its position and behavior to suit your workflow.

Use the **Cue** field to adjust the position of the cue playhead. Alternatively, tap and drag the translucent marker with the triangle (▶).

To play the sample from the cue playhead, tap **Play Cue** at the bottom of the screen.

To create a slice marker at the cue playhead position, tap **Slice+** at the bottom of the screen.

To set how the cue playhead behaves, use the **Settings** window (described ***earlier***).

0 Snap forces start points and end points to occur only at the waveform's "zero-crossings." This can help to avoid clicks and glitches when playing a sample.

To enable or disable 0 Snap, press and hold **Shift**, and then tap **0 Snap** at the bottom of the screen.

Converting or Assigning Slices

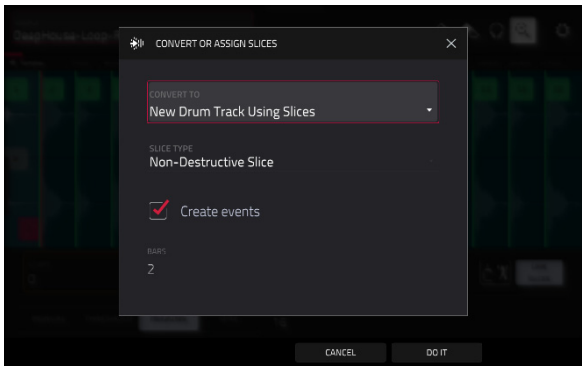
You can assign your new sample directly to a pad from Chop Mode. You can also convert it into a new track or patched phrase.

To convert or assign a sample, press and hold **Shift**, and then tap **Convert** at the bottom of the screen to open the Convert or Assign Slices window.

To convert the sample using the selected process, tap **Do It**.

To cancel the operation, tap **Close**.

If you set the **Convert To** field to **New drum track using slices**, this will create a new track and assign the sample's slices to its pads. The pads will simply refer to the slices in this sample instead of creating new samples. This is useful for reducing clutter in your project. The new track will be named after the sample and appended with **ch**.



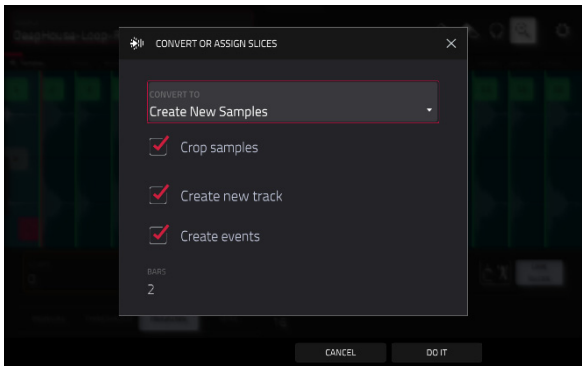
Use the **Slice Type** field to select how each pad's layer settings will be set when the slices are assigned to them (see ***Track Edit Mode*** to learn more about the parameters mentioned below):

- **Non-Destructive Slice**: Each pad's **Slice** setting will be set to the slice number.
- **Pad Parameters**: Each pad's **Slice** setting will be set to **Pad**. The **Pad Start** and **Pad End** parameters will be set to the slice's start point and end point values, and the **Loop Pos** parameter will be set to the slice's start point but with **Pad Loop** deactivated.

Check the **Create Events** box to automatically create a new sequence in which each pad plays its corresponding slice in ascending sequence by pad number.

If **Create Events** is checked, use the **Bars** field to set how many bars the slices' events will occupy.

If you set the **Convert To** field to **Create New Samples**, this will create a new sample from each slice and assign them to pads in a new track.



The new track will be named after the sample and appended with **ch**. The new samples will be appended with **SI-#** (where **#** is a consecutive number).

Check the **Crop Samples** box to delete the unused parts from the sample when they are created and assigned. This feature is destructive, though the project will still contain your original sample.

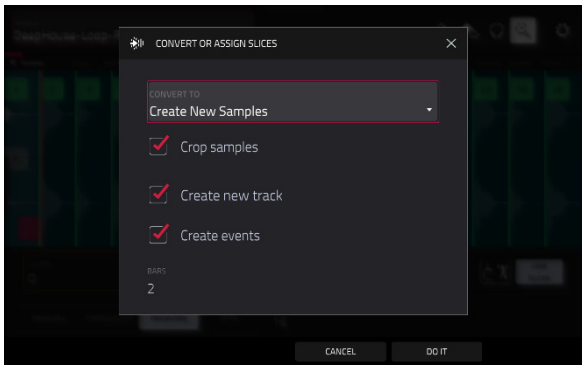
Leave this box unchecked to keep the unused parts of the samples when they're created and assigned. This way, you will still be able to edit the entire samples further even though you are using only part of them at the moment.

By default, this option already will create a new track. You can **uncheck** the **Create new track** box to convert each slice into a sample that is placed in the project's sample pool but not assigned to a track or pad.

If **Create new track** is checked, check the **Create events** box to automatically create a new track in which each pad plays its corresponding slice in ascending sequence by pad number.

If **Create Events** is checked, use the **Bars** field to set how many bars the slices' events will occupy.

If you set the **Convert To** field to **Audio Track from Samples**, this will create a new audio track with the converted samples. The new track will be named after the sample.

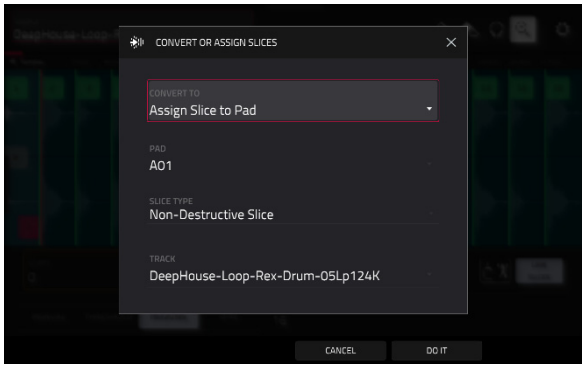


By default, this option already will create a new track. You can **uncheck** the **Create new track** box to select an existing Audio track in the project where the samples will be added.

Check the **Warp Events** box to warp the converted samples to the project tempo.

Use the **Bars** field to set how many bars the slices' events will occupy.

If you set the **Convert To** field to **Assign Slice to Pad**, the pad will simply refer to the slice in this sample instead of creating a new sample. This is useful for reducing clutter in your project.



Important: Assigning a sample to a pad in this way will replace the sample on the first layer of the pad.

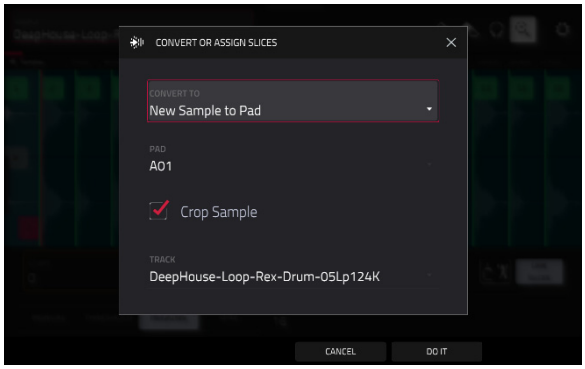
Use the **Pad** field to select the desired pad. Alternatively, press the desired pad.

Use the **Slice Type** field to select how the pad's layer settings will be set when the slice is assigned to it (see ***Track Edit Mode*** to learn more about the parameters mentioned below):

- **Non-Destructive Slice**: The pad's **Slice** setting will be set to the slice number.
- **Pad Parameters**: The pad's **Slice** setting will be set to **Pad**. The **Pad Start** and **Pad End** will be set to the slice's start point and end point values, and the **Loop Position** will be set to the slice's start point but with **Pad Loop** deactivated.

Use the **Track** field to specify the track to which you want to add the slice.

If you set the **Convert To** field to **New Sample to Pad**, this will create a new sample in your project. (The original sample will remain as it is.)



Important: Assigning a sample to a pad in this way will replace the sample on the first layer of the pad.

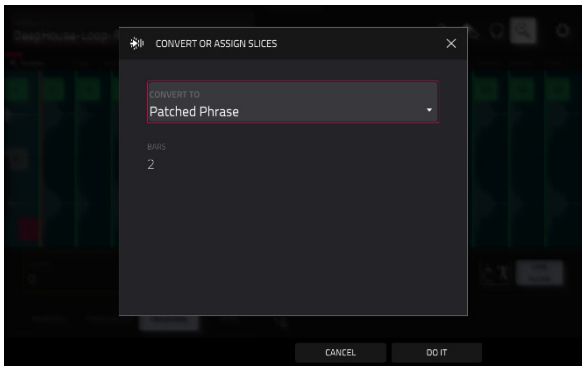
Use the **Pad** field to select the desired pad. Alternatively, press the desired pad.

Check the **Crop Sample** box to delete the unused parts from the sample when it's created and assigned. This feature is destructive, though the project will still contain your original sample.

Leave this box unchecked to keep the unused parts of the sample when it is created and assigned. This way, you will still be able to edit the entire sample further even though you are using only part of it at the moment.

Use the **Track** field to specify the track to which you want to add the slice.

If you set the **Convert To** field to **Patched phrase**, this will create a new sample that will play based on the tempo of your project, and places it in the current project. The patched phrase will have the same name as the original sample but appended with **pp** and will use a different icon when viewing your project information.



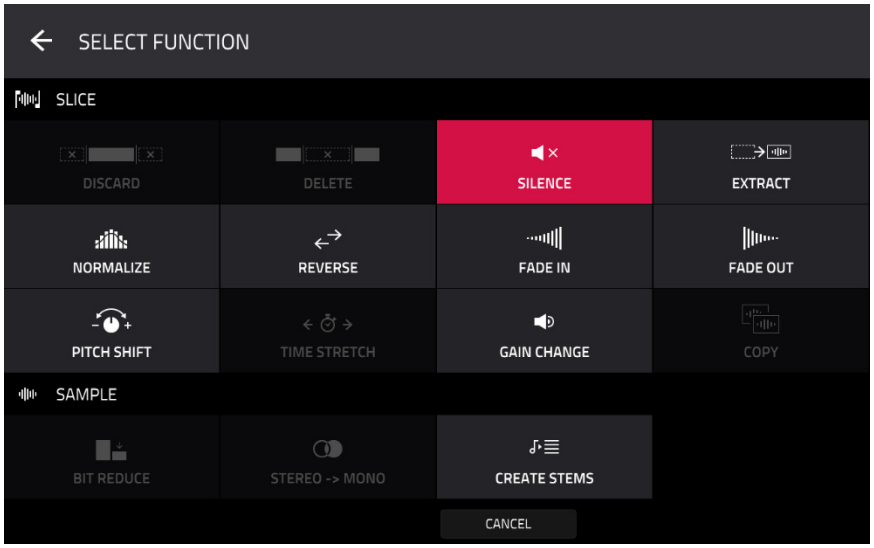
Use the **Bars** field to set how many bars long the patched phrase is meant to be.

Processing Slices

Press and hold **Shift**, and then tap the **Process** button to open the Process window, where you can select an editing option for the currently selected slice. (This has fewer options than Trim Mode. Unavailable ones are darkened.)

Use the **Function** field to select an editing process. Double-tap it or tap **Function** at the bottom of the screen to open the Function window, which displays an overview of all available editing processes.

Important: Chop Mode is non-destructive: You can choose the slice/edit behavior without destroying your original sample, giving you more control over sample playback; you can save your sliced sample and but also reuse all of the slice data in another project. See the ***Track Edit Mode*** chapter to learn more about setting a pad to play the entire sample, a specific slice of a sample, or a specific region of the sample (independent of its slice markers).



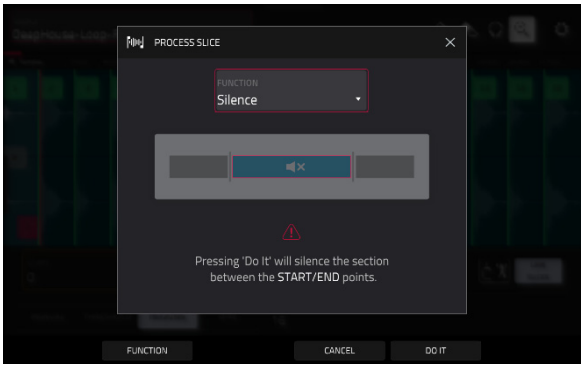
You can use any of these functions as described below.

To return to Sample Edit Mode, tap **Cancel**.

To return to the Process window, tap the top of the screen.

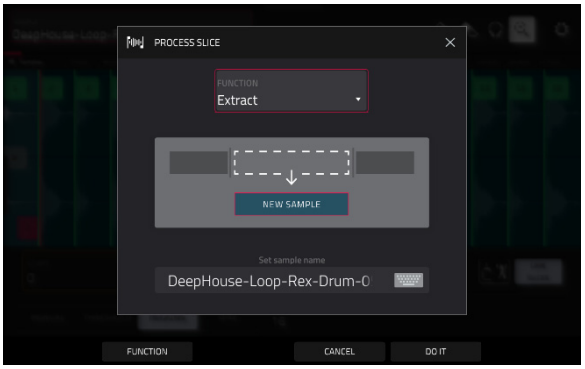
Note: All processes here will affect only the currently selected slice.

The **Silence** process replaces the region between the start point and end point with silence.

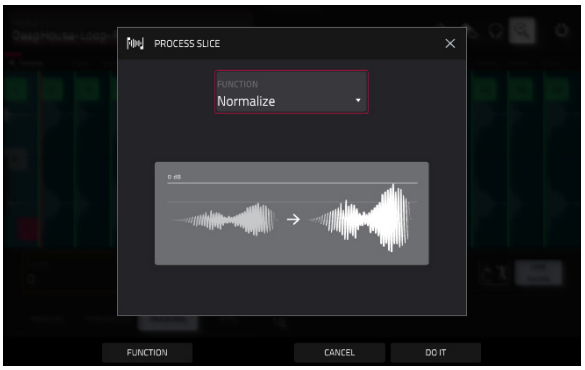


The **Extract** process deletes the regions before the start point and after the end point and saves it as a new sample (with a name you enter) in your current project.

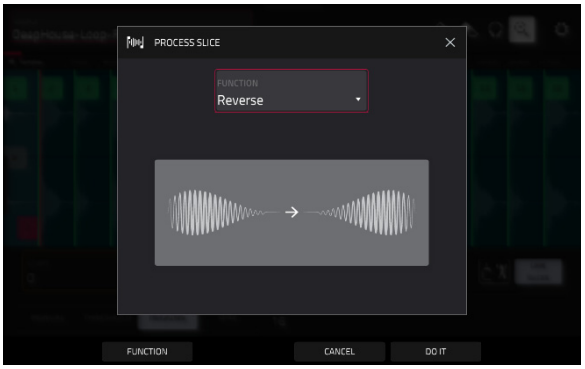
Tip: This is useful if you recorded a drum loop and wanted to remove just a snare drum hit, a kick drum hit, etc. to use separately in the project.



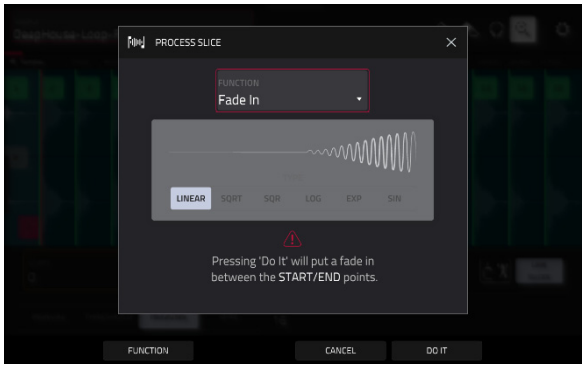
The **Normalize** process increases a sample's level to the highest level possible without distortion. This is essentially a kind of digital gain optimization, so you do not have to worry about excessive level settings when working with samples with a wide range of amplitudes.



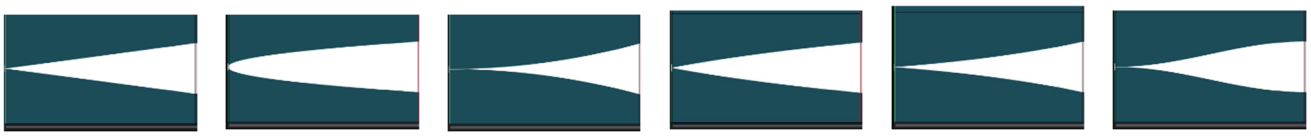
The **Reverse** process reverses the region between the start point and end point.



The **Fade In** process sets a fade-in between the start point and end point. The following types are available:

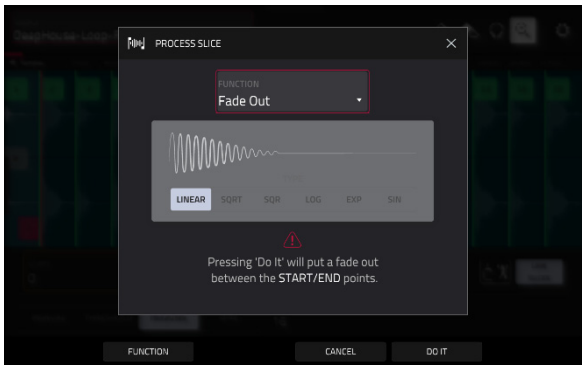


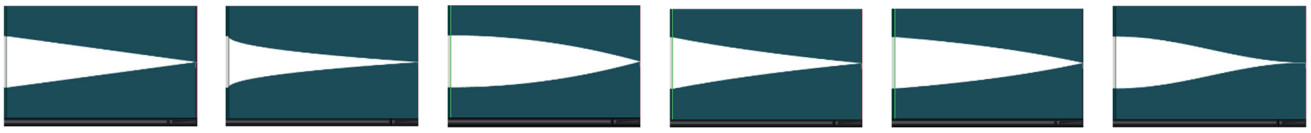
- **Linear** fades the audio in with a linear curve—a straight line between the start and end.
- **Square Root** fades the audio in with a square root curve—a half-parabola that is similar to the logarithmic curve but steeper.
- **Square** fades the audio in with a curve opposite to the square root curve. This is similar to the **exponential** curve but steeper.
- **Log** fades the audio in with a logarithmic curve—quickly rising at the start and flattening out towards the end.
- **Exp** fades the audio in with an exponential curve—slowly rising in the beginning and growing steeper towards the end.
- **Sine** fades the audio in with a sine curve—like a sine wave, it slowly rises, gets steeper in the middle, and flattens out at the end.



Linear | Square Root | Square | Log | Exp | Sine

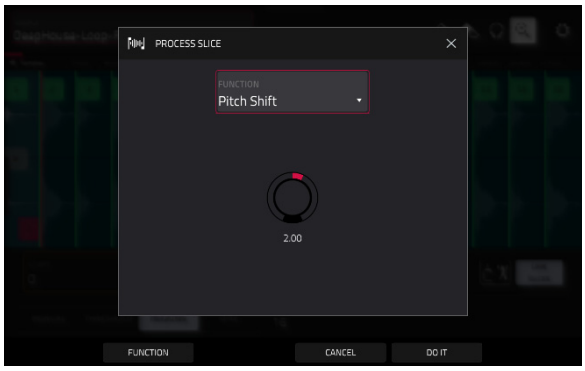
The **Fade Out** process sets a fade-out between the start point and end point. These are the same as the **Fade In** curves, but fade the audio out instead of in.



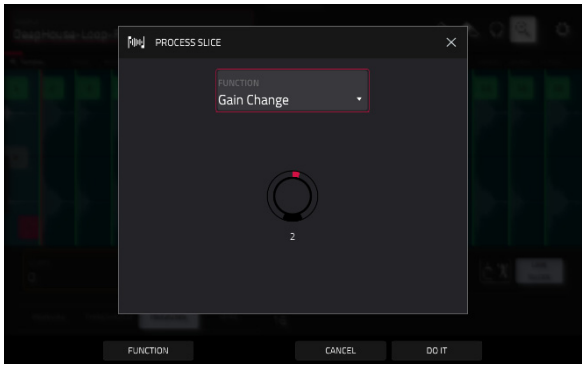


Linear | Square Root | Square | Log | Exp | Sine

The **Pitch Shift** process changes the pitch of the sample without changing its length. This lets you set the sample's pitch to your project without affecting the sample's tempo or duration. You can adjust it up to 12 semitones, up or down. Keep in mind that the audio quality may decrease at more extreme settings.



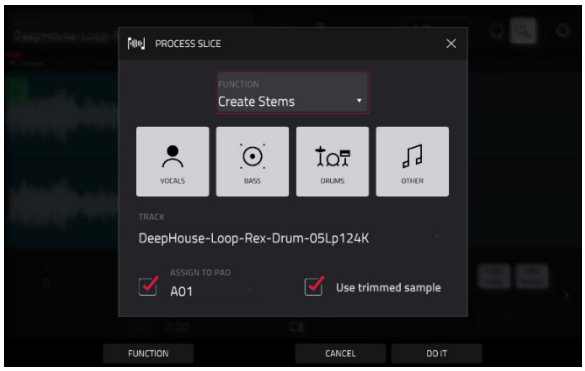
The **Gain Change** process raises or lowers the volume of the sample. You can adjust it up to 18 dB, higher or lower. This function is different than Normalize because it will allow volumes beyond clipping level. This may be a desired effect, but remember to watch your output level!



The **Stems** process to isolates different parts of the sample and separate them into new stem samples.

Click the icons to select or deselect from the following elements to create stems of:

- **Vocals:** Isolate vocal elements of the track into a stem.
- **Bass:** Isolate bass elements of the track into a stem.
- **Drums:** Isolate percussive elements of the track into a stem.
- **Other:** Isolate other musical textures, such as keys or guitars, into a stem.



Use the **Track** dropdown menu to select the track where the stems will be added.

The **Assign to Pad** function determines where the stem separated samples are added. When checked, you can select a pad in the chosen Track using the dropdown menu, and the stems will be added to the first four layers of that pad. When unchecked, the stems will be added to the general project sample pool in the **Project Info** Browser.

Tap the **Use trimmed sample** box to trim the source sample between the **Start** and **End** points before applying the stem separation process.

Tip: Uncheck this box if you want to retain slices with the stemmed results, otherwise, they will be bypassed.

Note: To purchase MPC Stems, visit **akaipro.com/stems**, and then activate your purchase in the ***Menu > Preferences > Activate Plugins*** menu.

Pad Mode

Pad Mode lets you edit a sample in the context of the track in which you'll use it. You can adjust the pad parameters as though you were in ***Track Edit Mode***, auditioning and hearing how it will sound in the track's audio path.

To enter Pad Mode, tap the **Pad** button at the bottom of the screen. The pads will show their assigned samples in the current Track.

Use the **Start** and **End** fields to set the position of the start point and end point of the sample (respectively). Alternatively, tap and drag the start (**S**) or end (**E**) marker left or right, or use the **first** column of **Q-Link knobs** (**Start X1**__) to adjust the start point or the **second** column of **Q-Link knobs** (**End X1**__) to adjust the end point.

Pad Mode includes a loop function. When on, the region of the sample between the loop point and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

To adjust the loop point, do any of the following:

- Use the **Loop** field.
- Tap and drag the start (**S**) marker (if **Loop Lock** is on) or the **loop** marker (if **Loop Lock** is off).
- Use the **first** column of **Q-Link knobs** (**Start X1**__; if **Loop Lock** is on) or the **third** column of **Q-Link knobs** (**Loop X1**__; if **Loop Lock** is off). The top-most **Q-Link knobs** (**13** and **15**) provide coarse adjustment. The bottom-most **Q-Link knobs** (**1** and **3**) provide fine adjustment.

To turn Loop Lock on or off, tap the **Loop Lock** button. When on, the loop point is the same as the start point. When off, the loop point is independent from the start point.

To turn the loop function on or off, tap the **Loop** button to cycle between the four modes:

Off: The sample will not loop.

Forward: When the loop reaches its end point, it will start playing again from the loop point.

Reverse: When the loop reaches its end point, it will play in reverse. When it reaches the loop point again, it will return to the end point and continue playing in reverse.

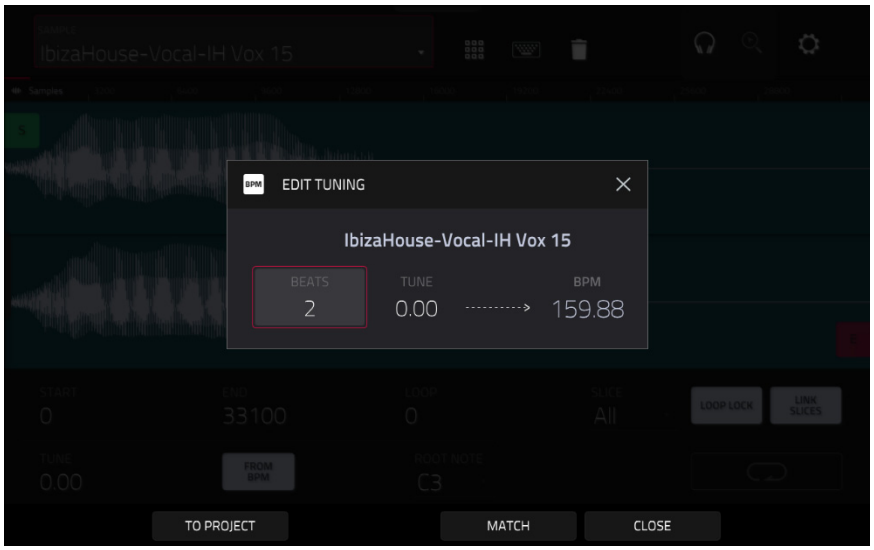
Alternating: When the loop reaches its end point, it will play in reverse. When it reaches the loop point again, it will start playing forward again from the loop point.

To switch between Forward and off, press and hold **Shift**, and then tap **Loop** at the bottom of the screen.

Tap each **pad** to hear its sample/samples. The sample on its first layer will automatically appear in the waveform display for editing.

Use the **Tune** field to transpose the sample up or down from its original pitch.

Tap **From BPM** to open the **Edit Tuning** window, which lets you tune a sample to the current sequence.



Use the **Number of Beats** field to match the number of beats in the sequence.

To tune the sample to the project, tap **Match**. The **Tune** field will adjust automatically and close the window. The sample is now tuned to the sequence.

To tune the sample to the project and adjust the project tempo, tap **To Project**. This is the same as tapping Match but it also changes the project's tempo to the BPM shown in the **Tempo** field on the right.

To close the window, tap **Close**.

Use the **Root Note** field to set the root note of the sample. This defines which note will play the sample at its original pitch when in a keygroup track.

Use the **Slice** field to display either the sample as it has been edited (**Pad**) or the entire sample (**All**).

If the **Slice** field is set to **All**, you can display the sample as it has been edited but keep the start point and end point. **To do this**, press and hold **Shift**, and then tap **To Pad** at the bottom of the screen. The **Slice** field will change to **Pad**, but the start point and end point will remain in their current locations.

The **Link Slices** button does not have a function in Pad Mode.

0 Snap forces start points, end points, and loop points to occur only at the waveform's "zero-crossings." This can help to avoid clicks and glitches when playing a sample.

To enable or disable 0 Snap, press and hold **Shift**, and then tap **0 Snap** at the bottom of the screen.

To enable or disable the loop function, press and hold **Shift**, and then tap **Loop** at the bottom of the screen. This switches the loop function between **Forward** and **off**. The loop function is described ***earlier***.

Assigning Samples

You can assign your new sample directly to a pad from Pad Mode.

To assign a sample, tap **Assign** at the bottom of the screen to open the Assign Sample window.

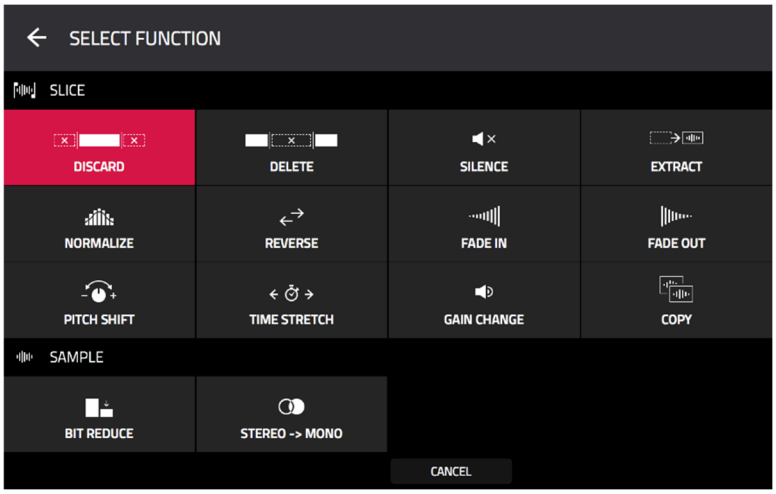
Important: Assigning a sample to a pad in this way will replace the sample on the first layer of the pad.

The Pad Mode Assign functions are identical to Trim Mode. See ***Trim Mode > Assigning Samples*** to learn more.

Processing Slices & Samples

Tap the **Process** button to open the Process window, where you can select an editing option for the sample.

Use the **Function** field to select an editing process. Double-tap it or tap **Function** at the bottom of the screen to open the Function window, which displays an overview of all available editing processes.



You can use any of these functions as described below.

To return to Sample Edit Mode, tap **Cancel**.

To return to the Process window, tap the top of the screen.

Note: All **Slice** processes will affect only the part of the sample between the start point and the end point. The **Sample** processes (**Bit Reduce** and **Stereo -> Mono**) will affect the **entire** sample regardless of its start point or end point.

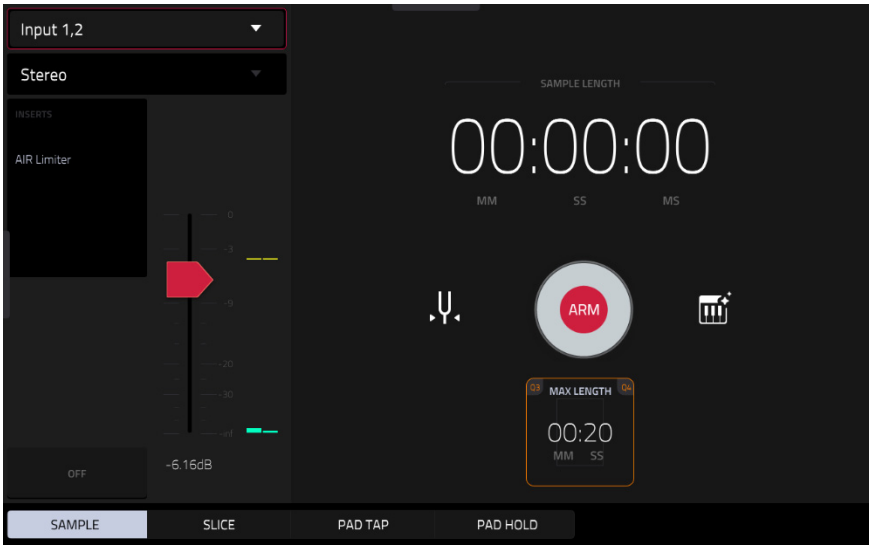
The Pad Mode Functions are identical to Trim Mode. See ***Trim Mode > Processing Slices & Samples*** to learn more.

Sampler

The Sampler lets you record audio samples to use in your projects.

To open the Sampler, do any of the following:

- Press **Menu** and then tap **Sampler**.
- Press **Sampler** (MPC X, MPC One), **Shift** and **Mix/Sampler** (MPC Live II), or **Shift** and **Sample Edit/Sampler** (MPC Key 61, MPC Key 37).
- In ***Main Mode***, select an empty pad in a Drum Track. Then, tap the **Record** icon in the Track Section.



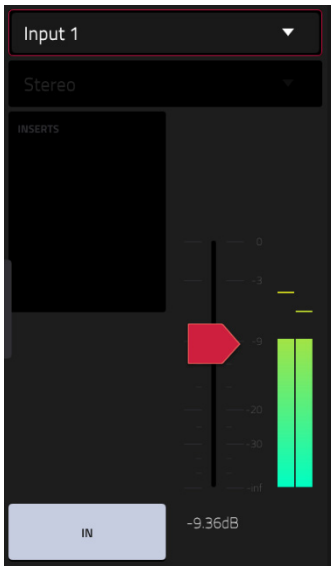
To set up the Sampler before recording:

1. Make sure to reduce the volume levels of your audio source and speakers, headphones, and/or monitors before you make any connections to avoid “pops” or feedback.
2. Connect a synthesizer or other line-level audio source to the input/inputs of your MPC hardware.
3. Turn the **3/4 Rec Gain** (MPC X), **Gain** (MPC Key 61), or **Rec Vol** (MPC Live, MPC Live II, MPC One, MPC Key 37) knob to set the input level while playing your audio source. You should now see the level in the meter. Make sure it does not exceed the maximum level (the meter should not be “peaking” constantly).
4. Set the recording controls as desired (described in this chapter).
5. Tap the **Arm** button to record-arm the Sampler.

You can use the Sampler to record using four different methods: ***Sample***, ***Slice***, ***Pad Tap***, or ***Pad Hold***, all described later in this chapter. The following controls are present regardless of which method you use.

The Sampler page also contains the ***Auto Sampler,*** which lets you capture and convert any plugin preset or external instrument preset into a Keygroup sampler patch.

Tap the **tuning fork icon** to open the ***Tuner***.



The upper-left **Input Source** field defines whether you are going to record an external audio signal, which you can set to the pair of inputs (**Input 1,2**) or a single input (**Input 1**–**2**). You can also select an internal signal from within your MPC hardware (**Resample L**, **Resample R**, or **Resample L+R**).

Resampling does not require an audio connection because the source is internal and is therefore recorded without any loss in audio quality. You can, for example, use Resample to record two or more samples by pressing the corresponding pads simultaneously.

Use the second upper-left **Mono**/**Stereo** field to choose whether your recorded samples will be monaural (**Mono**) or binaural (**Stereo**).

The **Inserts** field shows any enabled or disabled effects for the Sampler. Tap the area under **Inserts** to open a window where you can load, change, and enable or disable the effects.

Important: These effects are applied to the audio as you record it. This means that the effects cannot be "removed" from the sound later. Learn more about how effects work in ***General Features*** > ***Effects***.

Tap the **Monitor** button to enable or disable input monitoring. When on, the audio you hear in your headphones will be taken **before** it reaches the Sampler, ensuring zero latency. When off, the audio you hear in your headphones will be taken **after** it is processed in the Sampler, so there may be some latency, but you will hear the audio source as it sounds in the recording.

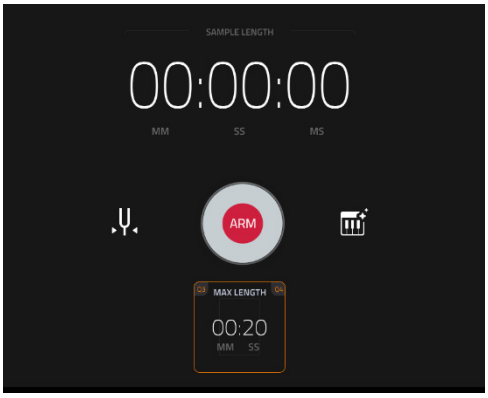
Tip: **To avoid possible clicks or feedback while input monitoring**, reduce the level of the audio sources.

Use the **threshold slider** to adjust the threshold. Alternatively, turn **Q-Link 1** when the Q-Links are set to **screen mode**.

When the Sampler is record-armed, it automatically starts recording when the level of the incoming source exceeds this setting. If you set it too high, the recording may not start when you play the input source, or the start of the material you wanted to record may be missing. If you set it too low, the recording may start too early, before you play the external source. Set this parameter to an appropriate level using the level meter.

To reset the "**peak hold**," which shows the highest level of your input signal in the level meter, tap it.

For reference, the **Sample Length** counter shows you the length of your sample during the recording procedure.



Tap **Arm** to record-arm the Sampler. The button will then change to **Record** and show **Waiting for signal**.

At that point, start recording by doing either of the following:

- Start performing so that the incoming audio level exceeds the level of the **threshold slider**.
- Tap **Record** under the **Sample Length** counter.

To disarm the track instead, tap **Cancel**.

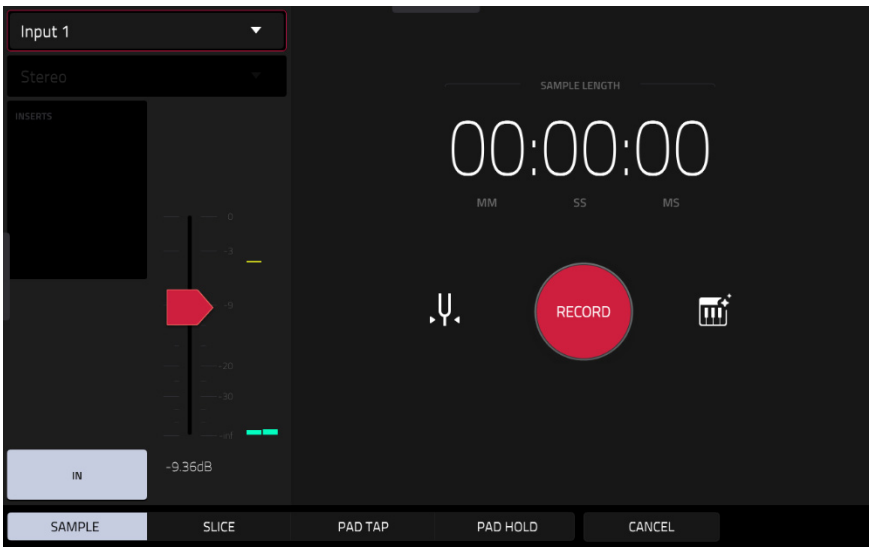
Use the **Max Length** field to define the maximum sampling time.

You can record up to 60 minutes (**60**:**00**) per sample. We recommend setting these to values that roughly match your estimated recording duration. The default value is 20 seconds.

Sample

Using this method, you can insert slice markers directly in your sample as you record it.

Slice markers divide the sample into multiple regions called **slices**, which you can adjust in ***Sample Edit Mode*** > ***Chop Mode***. This is useful when working with a long sample with different sounds throughout (e.g., a drum loop or a long melodic or harmonic passage).



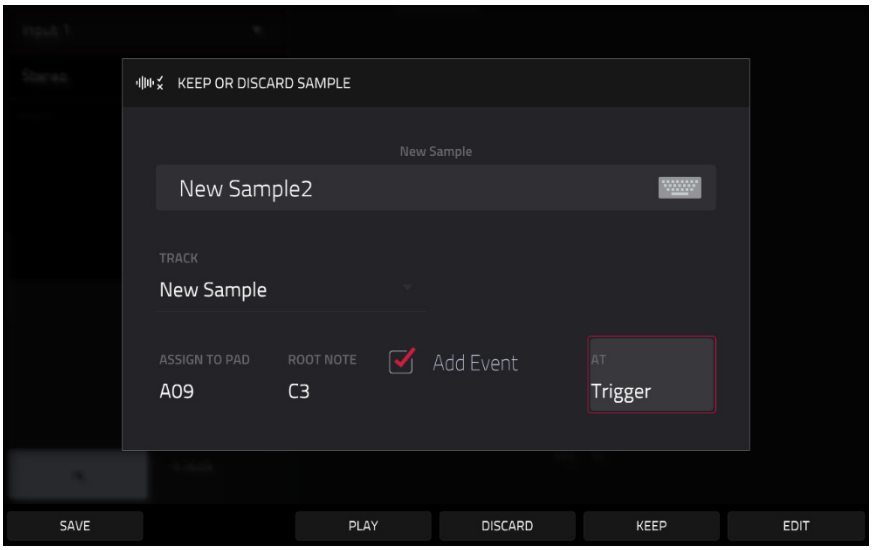
To start recording, do one of the following:

- Start performing so that the incoming audio level exceeds the level of the **threshold slider**.
- Tap **Record** under the **Sample Length** counter.

To insert a slice marker in a sample while recording, tap **Slice+** (in the lower-right corner) as the sample records. Each time you tap it, a slice marker will be placed at that location.

To stop recording, tap **Stop** under the **Sample Length** counter.

After you stop your recording, the **Keep or Discard Sample** window will appear.



Use the **Edit Name** field to name the new sample. Tap it and use the virtual keyboard that appears.

Use the **Track** field to assign the new sample to a track. Select <**none**> if you want to save it to the project without assigning it to a track. You can also tap **Save** at the bottom of the screen to save the sample to the general sample pool.

Use the **Assign to Pad** field to assign the sample to a pad in the track.

Use the **Root Note** field to set where the sample's original pitch will be on the keyboard.

If you recorded a sample while a sequence was playing, the **Keep or Discard Sample** window will show a few more options after you select a pad.

Check the **Add Event** box to automatically add the sample to the currently playing sequence.

Use the **At** field to select where you want the event to start:

- **Start**: The sample will be a note event at the start of the currently playing sequence.
- **Trigger**: The sample will be a note event where you began recording it in the currently playing sequence.

Tap **Keep** at the bottom of the screen to confirm your selections.

Tap **Discard** at the bottom of the screen to discard the recording and return to the Sampler.

Tap **Play** at the bottom of the screen to play the recording.

Tap **Edit** to save the sample and open ***Sample Edit Mode*** to edit your recorded sample.

Slice

Using this method, the pads correspond to slices of the currently recorded sample. Slice markers divide the sample into multiple regions called **slices**, which you can adjust in ***Sample Edit Mode*** > ***Chop Mode***. This is useful when working with a long sample with different sounds throughout (e.g., a drum loop or a long melodic or harmonic passage).

To start recording, do one of the following:

- Start performing so that the incoming audio level exceeds the level of the **threshold slider**.
- Tap **Record** under the **Sample Length** counter.

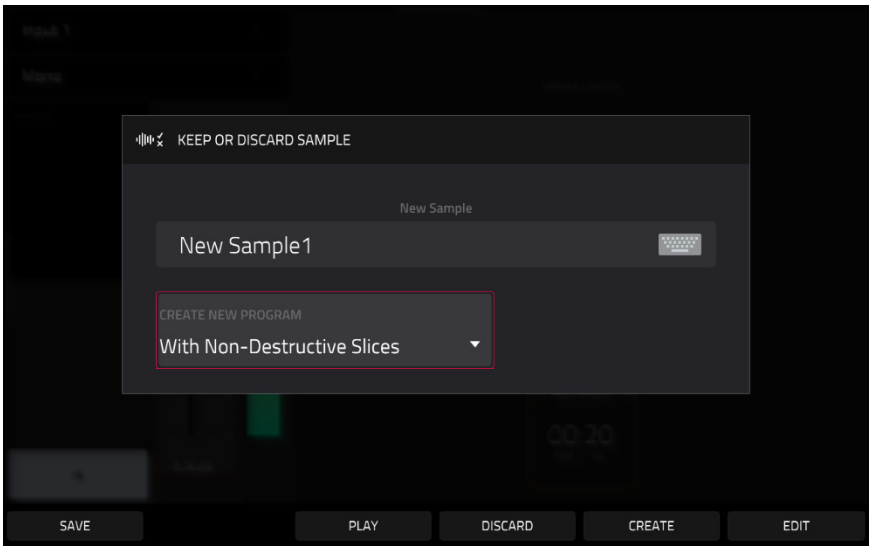
To insert a slice marker in a sample while recording, press any **pad** as the sample records. Each time you press it, a slice marker will be placed at that location. Alternatively, press the **Slice +** button at the bottom of the screen.

The number of the pad that flashes **red** is the number of the slice marker that will be inserted next. The numbers of the pads that are lit **yellow** are the numbers of the slice markers that are already inserted.

When you are done recording, you can name the sample and create a new track using the slices.

To stop recording, tap the round **Stop** button.

After you stop your recording, the **Keep or Discard Sample** window will appear.



Use the **Edit Name** field to name the new sample. Tap it and use the virtual keyboard that appears. Otherwise, the process will add a consecutive number after the sample name.

Use the **Create New Program** field to assign the new sample to a new program:

Off: No program will be created. The slices will still be added to your project's sample pool.

With Non-Destructive Slices: In the new program, each pad's **Slice** setting will be set to the corresponding slice number. This is identical to how you can assign samples in Sample Edit Mode (as described in ***Sample Edit Mode*** > ***Chop Mode*** > ***Converting or Assigning Slices***).

With Pad Parameters: In the new program, each pad's **Slice** setting will be set to **Pad**. The **Pad Start** and **Pad End** will be set to the slice's start point and end point values, and the **Loop Position** will be set to the slice's start point but with **Pad Loop** deactivated. This is identical to how you can assign samples in Sample Edit Mode (as described in ***Sample Edit Mode*** > ***Chop Mode*** > ***Converting or Assigning Slices***).

Tap **Create** or **Keep** at the bottom of the screen to confirm your selections.

Tap **Discard** at the bottom of the screen to discard the recording and return to the Sampler.

Tap **Play** at the bottom of the screen to play the recording.

Tap **Edit** to save the sample and open ***Sample Edit Mode*** to edit your recorded sample.

Pad Tap

Important: This mode works for **drum tracks only**; you must select a drum track before using this mode. If you have another track selected, the pads will flash dim red. Attempting to record will bring up a window notifying you that you cannot sample into this track type.

With this method, pressing a pad immediately starts or continues recording directly to that pad (make sure you are using the desired track before you start recording). Pads with assigned samples are lit **bright yellow**. Pads without samples are lit **dim yellow**.

To start recording to a pad, press it. Recording will start immediately, and the pad will flash **red**. If you press a new pad, the recording will stop on the previous pad, which will turn **green**, and start on the new pad, which will flash **red**.

Note: If you start recording by tapping **Record** under the **Sample Length** counter—or if the volume exceeds the level of the **threshold slider**—the sample will record to your project's sample pool, not to a pad.

To stop recording to a pad, press the currently recording **pad**, which is flashing **red**. The sample will continue recording. You can start recording on another **pad** at any time.

To stop all recording, tap **Stop** under the **Sample Length** counter.

When you are done recording, each pad that you have pressed during recording:

- will have its **Slice** setting set to **Pad**;
- will have its **Pad Start** and **Pad End** set to the slice's start point and end point values; and
- will have its **Loop Position** set to the slice's start point but with **Pad Loop** deactivated.

This is identical to how you can assign samples in Sample Edit Mode (as described in ***Sample Edit Mode*** > ***Chop Mode*** > ***Converting or Assigning Slices***).

Tip: We recommend editing your recorded sample in ***Sample Edit Mode***.

Pad Hold

Important: This mode works for **drum tracks only**; you must select a drum track before using this mode. If you have another track selected, the pads will flash dim red. Attempting to record will bring up a window notifying you that you cannot sample into this track type.

With this method, pressing and holding a pad immediately starts or continues recording directly to that pad (make sure you are using the desired track before you start recording). Pads with assigned samples are lit **bright yellow**. Pads without samples are lit **dim yellow**.

To start recording to a pad, press and hold it. Recording will start immediately, and the pad will light **red**.

Note: If you start recording by tapping **Record** under the **Sample Length** counter—or if the volume exceeds the level of the **threshold slider**—the sample will record to your project's sample pool, not to a pad.

To stop recording, release the **pad**. The pad will light **green**, and the sample will continue recording. You can start recording on another **pad** at any time.

To stop all recording, tap **Stop** under the **Sample Length** counter.

When you are done recording, each pad that you have pressed during recording:

- will have its **Slice** setting set to **Pad**;
- will have its **Pad Start** and **Pad End** set to the slice's start point and end point values; and
- will have its **Loop Position** set to the slice's start point but with **Pad Loop** deactivated.

This is identical to how you can assign samples in Sample Edit Mode (as described in ***Sample Edit Mode*** > ***Chop Mode*** > ***Converting or Assigning Slices***).

Tip: We recommend editing your recorded sample in ***Sample Edit Mode***.

Auto Sampler

The Sampler page also contains the Auto Sampler, which lets you capture and covert any plugin preset or external instrument preset into a keygroup sampler patch.

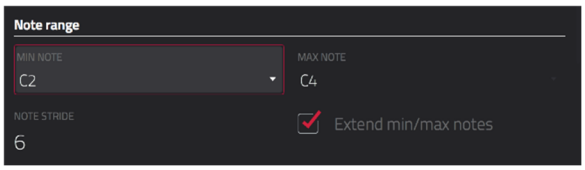
To open the auto sampler, tap the **keyboard icon** next to the record button in Sampler View. The current track will be selected as the auto sample source.

Sample Source Information

Use the **Track name** field to select the target auto sampler source.

Use the **Record from** field to select an input to record from. Select one of the **Input** options to auto sample an external instrument, or select one of the **Resample** options to auto sample from an internal source.

Note Range



Use the **Min Note** and **Max Note** fields to set the range of notes that will be created.

Use the **Note Stride** field to set the number of semitones between each new sample.

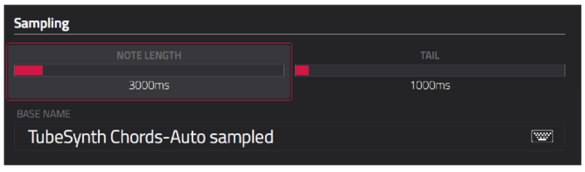
Check the **Extend min/max notes** box to sample all the way to the lowest and highest notes, regardless of the **Min Note** and **Max Note** settings.

Velocity

Tap the boxes next to **Layers 1–8** to select how many layers will be used to create the sampler patch.

Use the **Velocity** value sliders to set the velocity of each layer.

Sampling

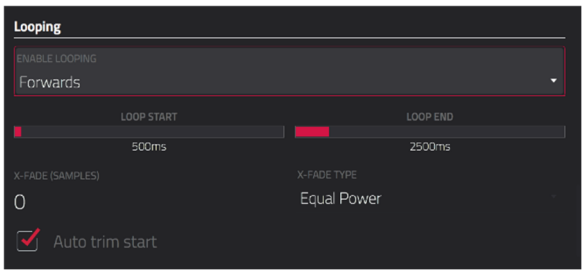


Use the **Note length** slider to set the length of the sampled note in seconds.

Use **Tail** slider to set the length of the Audio Tail in seconds. This will add extra seconds to the end of the resulting audio file. This is useful if you are capturing samples whose sounds exceed the defined audio length (e.g., long reverb or delay, one-shot samples with long decays, etc.). We recommend using an audio tail of at least a couple of seconds.

Use **Base name** to set the naming convention for the samples that will be created by the Auto Sampler.

Looping



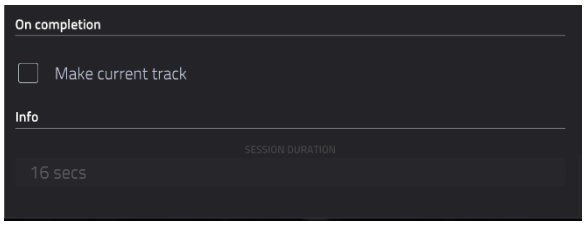
Use the **Enable looping** field to select how the resulting samples can or cannot be looped:

- **Off**: The sample will not loop.
- **Forward**: You can hold down the **pad** to cause that sample to repeat from the **Loop Position** to the end of the sample. Release the **pad** to stop the repeating playback.
- **Reverse**: You can hold down the **pad** to cause that sample to play in reverse, repeating from the end of the sample to the **Loop Position**. Release the **pad** to stop the repeating playback.
- **Alternating**: You can hold down the **pad** to cause that sample to play from the **Loop Position** to the end of the sample and then play in reverse until it reaches the **Loop Position** again. This will repeat as long as you are holding the pad down. Release the **pad** to stop the repeating playback.

Use the **Loop start** and **Loop end** sliders to set the starting and ending points in the sample where the loop will occur.

Use the **Crossfade** slider to set the amount of crossfade between the loop end and loop start in seconds.

Use the **Crossfade Type** field to select **Equal Power** or **Linear** crossfade.



Under **On completion**, check **Make current track** to load the completed sampler patch as the current track.

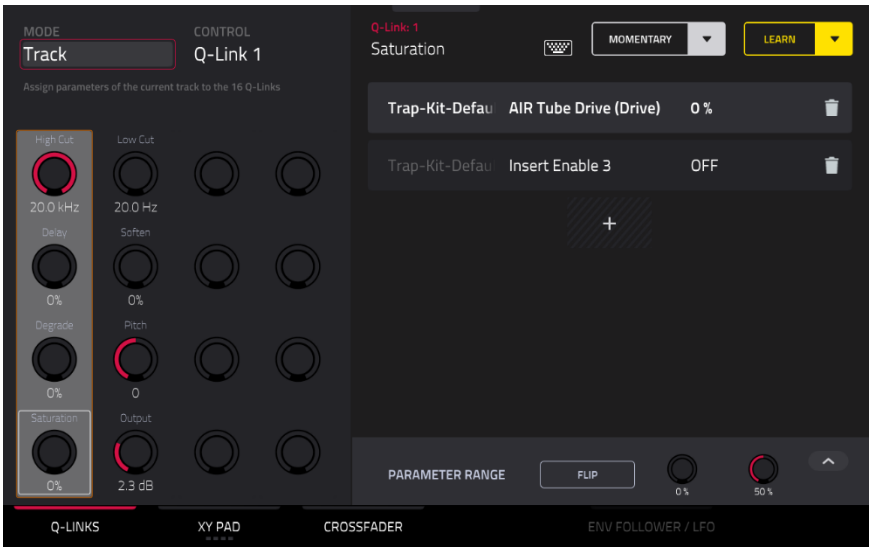
Under **Info**, the **Session Duration** field provides an estimate of how long the auto sampling process will take.

Q-Link Edit

Q-Link Edit mode allows you to create and manage macro assignments. Macros can be used to control multiple automation parameters across different modes using a single Q-Link knob for expanded expressive performances. You can also map automation parameters to the XY Pad interface using this mode.

To enter Q-Link Edit Mode, press **Menu** and then tap **Q-Link Edit**.

You can also press and hold the **Q-Link** button on your MPC hardware (or any **Q-Link Mode** button on MPC X/X SE) to open the Q-Link window. From here, tap **Q-Link Edit** at the bottom of the screen to open Q-Link Edit Mode.



Use the tabs at the bottom of the screen to select a control to assign parameters to:

- ***Q-Links***
- ***XY Pad***
- ***Crossfader***

Click on the links above to jump to that section.

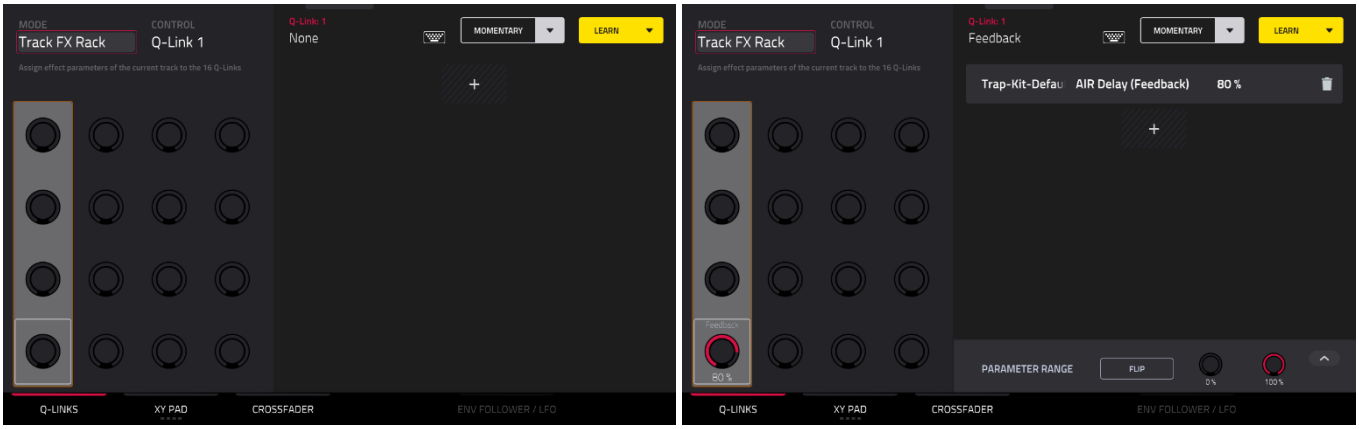
Note: For users with the MPC Pro Pack, a fourth mode—**Envelope Follower / LFO**—is also available. This tab will be greyed out when MPC Pro Pack is not activated. For more information on this mode, see the ***Addenda > MPC Pro Pack > Q-Link Edit – Envelope Follower / LFO***.

On the left side of the screen, use the **Mode** field to switch between the different modes for each control. Some Modes cannot be edited using Macros mode, but you can view their assignments here.

Use the **Control** field to select or view the active control for editing.

The right side of the screen shows the parameters assigned to the selected controls, and the tools for adding and editing these parameters.

Learning Macro Assignments



To learn parameters to a Macro control in user assignable modes:

1. Select a control type by tapping one of the buttons at the bottom of the screen: ***Q-Links***, ***XY Pad***, or ***Crossfader***. See the following sections for more information on either control type.
2. If available, select the desired mode for the control by using the **Mode** field at the top of the screen. See each following section for explanation of the available modes for each control in Q-Link Edit mode.
3. Use the **Control** field to select the control to learn parameters to. In some modes like Q-Links, you can also directly tap to select the control below this field or move the desired control.
4. When one of these editable modes is selected, the yellow **Learn** button and the **learn add** (+) button will appear on the screen.

   To learn a single parameter to the control, tap the yellow **Learn** button so it is highlighted.
5. Next, navigate to the mode that displays the parameter you would like to learn, and then adjust that parameter. The screen will show a message, "Learned [*parameter*] to [*Q-Link*]."
6. **To lock in the assignment,** return to Q-Link Edit mode and tap the yellow **Learn** button again. The assigned parameters will be shown when the macro control is selected.

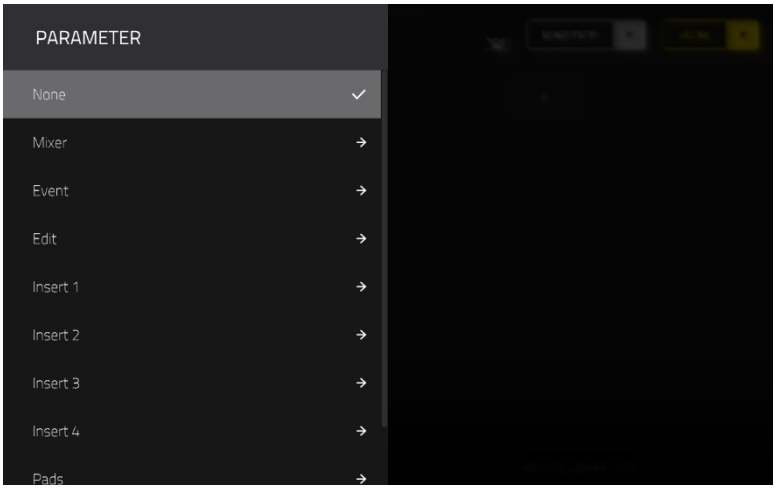
To learn multiple parameters to a macro, simply navigate to more parameters while **Learn** is engaged (step 4).

To learn another parameter to a macro that replaces the previous parameter, tap the **down arrow** next to the yellow **Learn** button, and then uncheck the **Add** box. Repeat the steps above to replace the previously learned parameter with a new one.

To learn a new parameter while also setting it to a range of values, tap the **down arrow** next to the yellow **Learn** button, and then check the **Range** box. While Learn is engaged (step 4 above), adjust the parameter to the low and high points of the value range that you want to control. When the assignment is locked in, the macro will control the parameter in the set value range.

To use a single macro to, for example, mute/unmute multiple tracks at the same time, tap the **down arrow** next to the yellow **Learn** button, and then check the **Toggle** box. Repeat the steps above to learn a parameter, which will toggle on/off when the control is touched or moved.

To use a macro to send the max value of a parameter, tap the **down arrow** next to the yellow **Learn** button, and then check the **Trigger** box. Repeat the steps above to learn a parameter, which will send its maximum value when the control is touched or moved.



Alternatively, you can add parameters by tapping the **learn add** (+) button, and then using the menu that appears to select a parameter from your project. The following parameters are available, depending on the selected Mode and the tracks in your project:

When an **Audio Track** is selected:

Mixer: Volume, Pan, Mute, Solo, Send 1–4

Event: Mute

Insert 1–4: Available parameters depending on the effect

When a **Drum Track** is selected, and **Parameter** is set to **Track**:

Mixer: Volume, Pan, Mute, Solo, Send 1–4

Event: Mute

Edit: Global Semi Tune, Global Fine Tune

Insert 1–4: Off, other available parameters depending on the effect

When a **Drum Track** is selected, and **Parameter** is set to **Pad**:

Mixer: Pan, Level, Send 1–4, Pad Mute, Pad Solo

Edit:

Pad X Position	Pitch Env Decay	LFO to Pitch	Decay Random
Pad Y Position	Pitch Env Sustain	LFO to Filter	Cutoff Random
Tuning	Pitch Env Release	LFO to Amp	Resonance Random
Filter Cutoff	Pitch Env Decay Mode	LFO to Pan	Total Random Amount
Filter Resonance	Pitch Env Attack Curve	LFO Wave	LFO Level (1–2)
Filter Env Amount	Pitch Env Release Curve	LFO Rate	LFO Delay (1–2)
Amp Env Attack	Pitch Env Depth	LFO Sync	LFO Fade In (1–2)
Amp Env Decay	Pitch Env Type	Velocity to Pitch	LFO 2 Wave
Amp Env Release	Ramp 1 Time	Velocity to Amp Attack	LFO 2 Rate
Amp Env Hold	Ramp 2 Time	Velocity to Amp	LFO 2 Sync
Amp Env Sustain	Note Counter 1 Size	Velocity to Pan	LFO 2 Reset
Filter Env Attack	Note Counter 2 Size	Velocity to Start	Global Drift Speed
Filter Env Hold	Layer Play Offset (1–8)	Layer Slice (1–8)	Voice Drift Speed
Filter Env Decay	Velocity Scaling	Layer Reverse (1–8)	LFO Delay Sync (1–2)
Filter Env Sustain	DrumFX (1–8)	Layer Offset (1–8)	LFO Fade In Sync (1–2)
Filter Env Release	DrumFX Type(1–8)	Layer Loop Xfade (1–8)	Layer Crossfade Mode
Amp Env Attack Curve	Layer Level (1–8)	Layer Loop Xfade Type (1–8)	Layer Crossfade X/Y
Amp Env Decay Curve	Layer Sample Pan (1–8)	Layer Slice Tail Length (1–8)	Articulation Speed (1–4)
Amp Env Release Curve	Layer Semi Tune (1–8)	Layer Slice Tail Start (1–8)	Articulation Dynamics (1–4)
Filter Env Attack Curve	Layer Fine Tune (1–8)	Layer Pitch Random (1–8)	Articulation Stereo (1–4)
Filter Env Decay Curve	Vel to Filter Attack	Layer Level Random (1–8)	Articulation Speed Scale (1–4)
Filter Env Release Curve	Velocity to Filter Depth	Layer Pan Random (1–8)	
Pitch Env Attack	Vel to Filter Cutoff	Layer Offset Random (1–8)	
Pitch Env Hold	Filter Type	Attack Random	

Insert 1–4: Off, other available parameters depend on the effect

When a **Keygroup Track** is selected, and Parameter is set to **Track**:

Mixer: Volume, Pan, Mute, Solo, Send 1–4

Event: Mute

Edit: Global Semi Tune, Global Fine Tune

Insert 1–4: Available parameters depending on the effect

When a **Keygroup Track** is selected, and Parameter is set to **Keygroup**:

Mixer: Pan, Level, Send 1–4, Pad Mute, Pad Solo

Edit:

Tuning	Filter Env Attack Curve	Layer Fine Tune (1–8)	Layer Slice (1–8)
Filter Cutoff	Filter Env Decay Curve	Vel to Filter Attack	Layer Reverse (1–8)
Filter Resonance	Filter Env Release Curve	Velocity to Filter Depth	Layer Offset (1–8)
Filter Env Amount	Pitch Env Attack	Vel to Filter Cutoff	Layer Loop Xfade (1–8)
Amp Env Attack	Pitch Env Hold	Filter Type	Layer Loop Xfade Type (1–8)
Amp Env Decay	Pitch Env Decay	LFO to Pitch	Layer Slice Tail Length (1–8)
Amp Env Release	Pitch Env Sustain	LFO to Filter	Layer Slice Tail Start (1–8)
Amp Env Hold	Pitch Env Release	LFO to Amp	Layer Pitch Random (1–8)
Amp Env Sustain	Pitch Env Decay Mode	LFO to Pan	Layer Level Random (1–8)
Filter Env Attack	Pitch Env Attack Curve	LFO Wave	Layer Pan Random (1–8)
Filter Env Hold	Pitch Env Release Curve	LFO Rate	Layer Offset Random (1–8)
Filter Env Decay	Pitch Env Depth	LFO Sync	Attack Random
Filter Env Sustain	Pitch Env Type	Velocity to Pitch	Decay Random
Filter Env Release	Layer Play Offset (1–8)	Velocity to Amp Attack	Cutoff Random
Amp Env Attack Curve	Layer Level (1–8)	Velocity to Amp	Resonance Random
Amp Env Decay Curve	Layer Sample Pan (1–8)	Velocity to Pan	Total Random Amount
Amp Env Release Curve	Layer Semi Tune (1–8)	Velocity to Start	

Insert 1–4: Available parameters depending on the effect

When a **Plugin Track** is selected:

Mixer: Volume, Pan, Mute, Solo, Send 1–4

Event: Mute

Track: Available parameters depending on the plugin

Insert 1–4: Available parameters depending on the effect

When a **MIDI Track** is selected:

Event: Mute

Edit: Standard MIDI control change assignments

When a **CV Track** is selected:

Event: Mute

Edit: CV Out 1–4

When a **Return** is selected, the following options are available:

Mixer: Volume, Pan, Mute

Event: Mute

Insert 1–4: Available parameters depend on the effect

When a **Submix** is selected, the following options are available:

Mixer: Volume, Pan, Mute

Event: Mute

Insert 1–4: Available parameters depend on the effect

When a **Main Output** is selected, the following options are available:

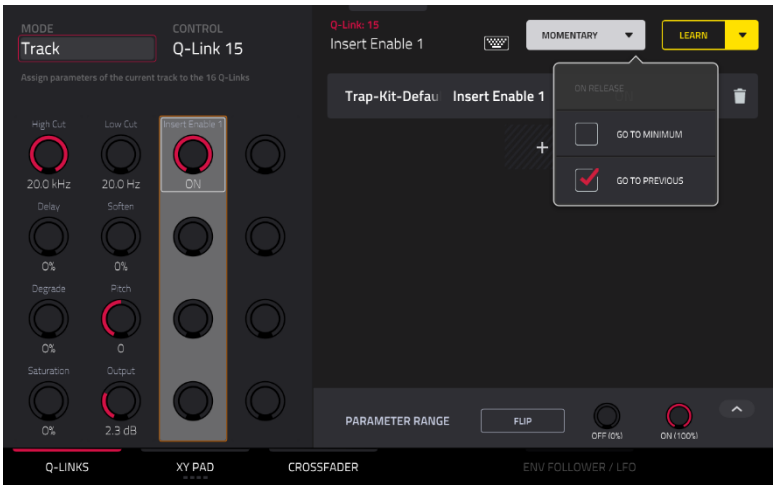
Mixer: Volume, Pan, Mute

Event: Mute

Insert 1–4: Available parameters depend on the effect

To copy an existing macro assignment:

1. Tap the **learn add (+)** button to open the parameter menu.
2. Select **Copy Existing Macro**.
3. To replace the current macro settings with the copied macro settings, select **Replace**.
4. To merge the current macro settings with the copied macro settings, select **Merge**.
5. Use the menu to select the existing macro you would like to copy.



Tap the **Momentary** button to turn momentary behavior on or off.

When **on**, moving the Q-Link will adjust its parameter, but the parameter will immediately return to its original position (when you turned Momentary on) when you release the Q-Link.

When **off**, moving the Q-Link will adjust its parameter, and the parameter will remain at its new setting when you release the Q-Link.

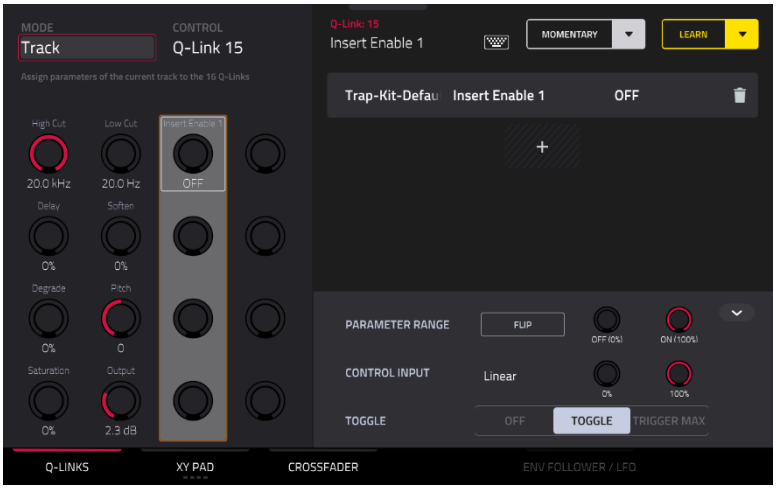
Tap the **arrow** next to the Momentary to adjust additional settings for when the macro control is released:

To revert the macro parameter(s) to its minimum value on release, check the **Go to Minimum** box.

To revert to the last value state before the macro was changed on release, check to **Go to Previous** box.

To rename a macro, tap the **keyboard icon** in the toolbar, and then use the keyboard to enter a new name.

Editing Macro Assignments



Above the Q-Link Edit control tabs on the right side of the touchscreen, the collapsible parameter inspector displays the settings for the currently selected learned parameter assignment. These settings can be edited for further customization of the macro.

To edit the parameters assigned to a macro:

1. Tap the macro control on the left side of the screen, or touch or move the control on your MPC, to select it.
2. Tap the learned parameter that you would like to adjust on the left side of the screen, so it is highlighted gray.
3. Use the parameter inspector to view and adjust the settings for the assignment. Tap the **arrow** to view additional settings.

    To reverse the polarity of the knob, tap the **Flip** button.

    To adjust the minimum and maximum values sent by the knob, use the two **Parameter Range** knobs.

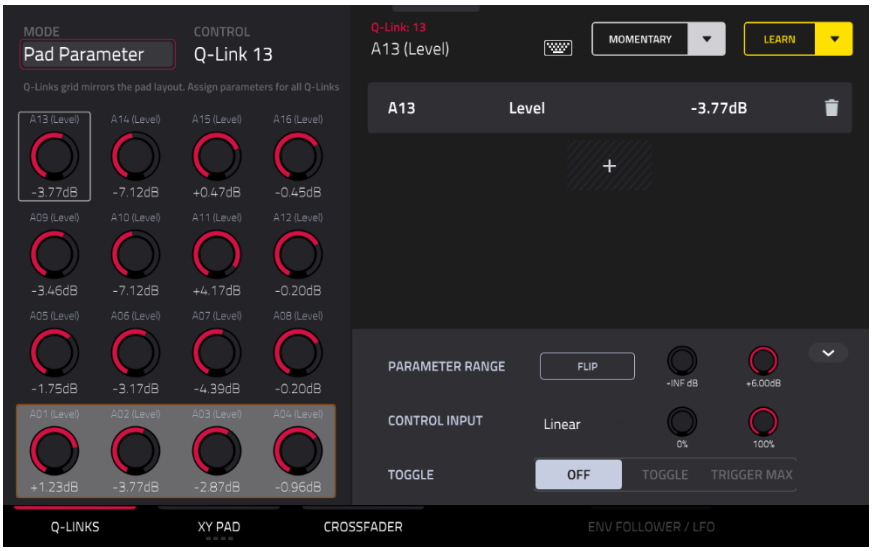
    To set the response curve of the macro, use the **Control Input** field to select **Linear**, **Logarithmic** or **Exponential**. Use the knobs next to this field to set the percentage of the control that will be active.

    To adjust the behavior of the macro, use the **Toggle** selector. When set to **Off**, moving the control sends a continuous range of values. When set to **Toggle**, moving the control toggles between the minimum and maximum values set above. When set to **Trigger Max**, moving the control always send the maximum value.

To remove a parameter assignment, tap the **trash can** icon. If all parameters are removed, the macro will no longer appear.

Q-Links

In this tab, you can view and/or edit Q-Link macro assignments, depending on the **Mode** selected.



To enter Q-Links mode, do either of the following:

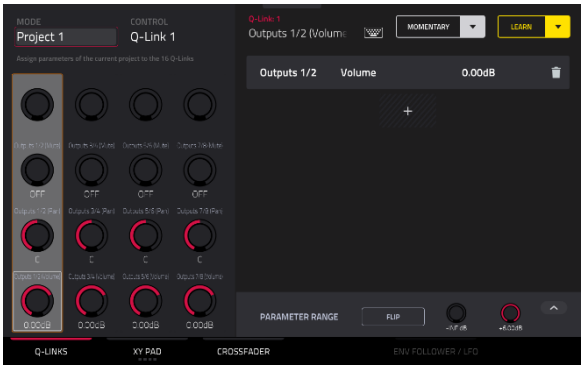
- In Q-Link Edit Mode, tap the **Q-Links** button at the bottom of the screen.
- You can also press and hold the **Q-Link** button on your MPC hardware (or any **Q-Link Mode** button on MPC X/X SE) to open the Q-Link window. Then, tap **Q-Link Edit** at the bottom of the screen to open Q-Link Edit Mode.

To select a mode for the Q-Links, use the **Mode** field at the top of the display to select one of the following options:

Screen: In this mode, the Q-Links are fixed to control a parameter or group of parameters in your currently selected mode (e.g., Pad Mixer, Sample Edit Mode, etc.).

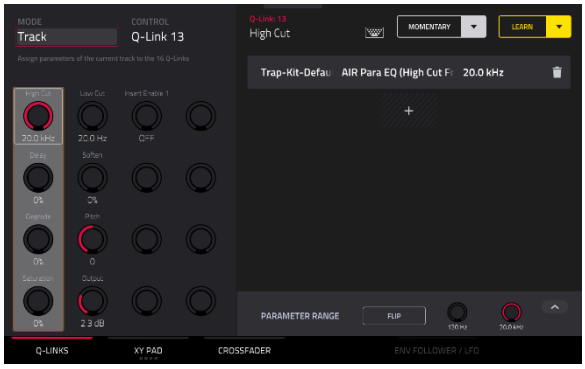
Project 1–2: In these edit modes, the Q-Link knobs can control 16 parameters within the current project overall.

Any available parameter, including Track, Pad, Keygroup, Insert, Return, Submix or Main Output parameters, can be selected as part of a macro control.



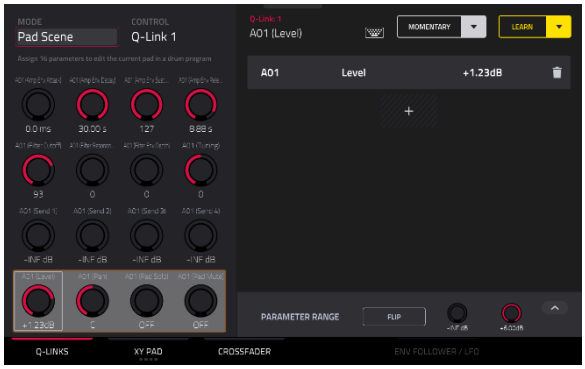
Track: In this edit mode, the Q-Link knobs can control 16 track parameters.

Only parameters for the current track, any Pads or Keygroups on the current track, or any Inserts on the current track can be selected as part of a macro control. This does not include Return, Submix or Main Output parameters.



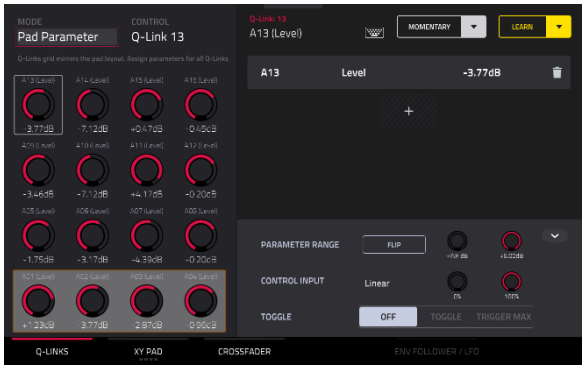
Pad Scene: In this edit mode, the Q-Link knobs can control 16 parameters for the currently selected pad.

You can select another pad simply by pressing it, allowing you to adjust the same 16 parameters for that new pad. (These assignments are automatically saved with other user settings. Any project you load will use these assignments.)



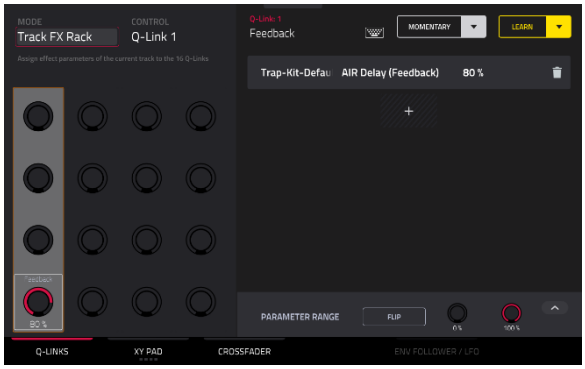
Pad Parameter: In this edit mode, the Q-Link knobs control the same pad parameter for the each of the 16 pads in the current pad bank.

For example, if the **Parameter** is set to **Level**, the 16 Q-Link knobs will adjust the 16 independent **Level** settings for each pad in the current pad bank. You could then set the **Parameter** to **Pan** and use the Q-Link knobs to adjust the panning of all 16 pads.

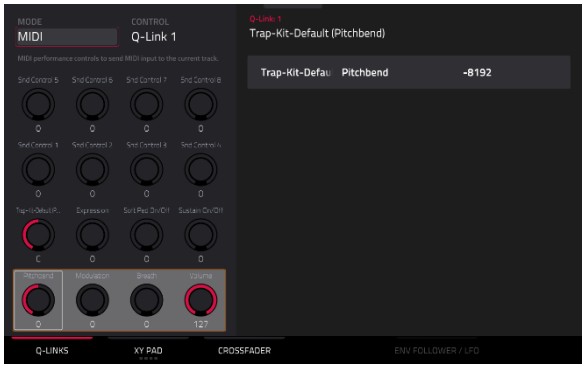


Track FX Rack: In this edit mode, the Q-Link knobs can control 16 FX Rack parameters. The assignments can be saved as part of an FX Rack preset.

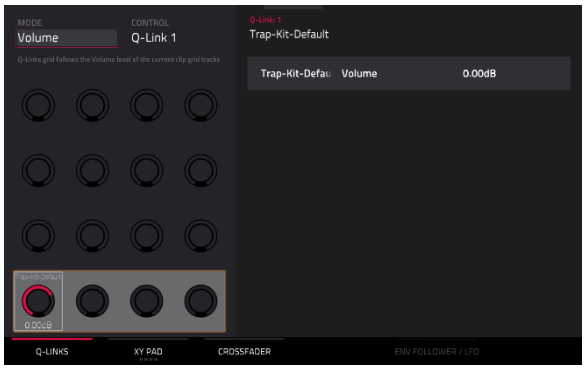
Only parameters available in the currently selected track's Insert effects can be selected as part of a macro control.



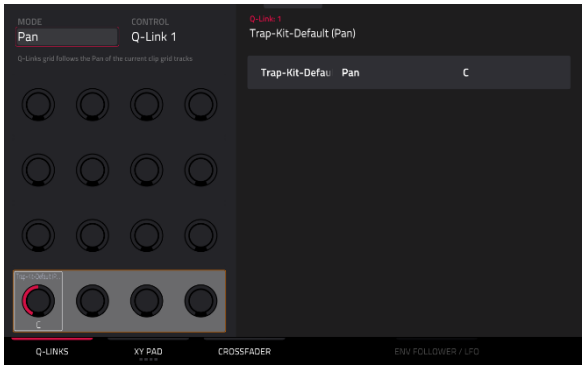
MIDI: In this mode, the Q-Links are fixed to a selection of MIDI performance controls, allowing you to control modulation, pitch bend, sustain and other common MIDI messages as you play.



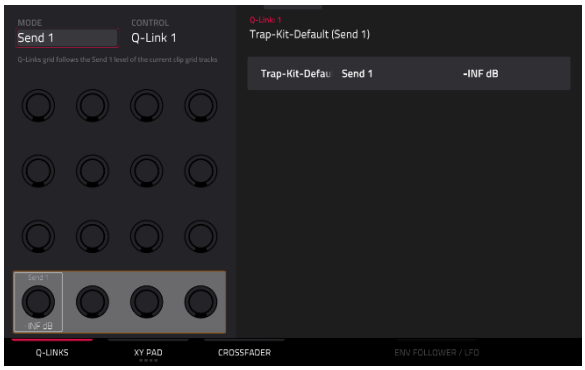
Volume: In this mode, the Q-Links are fixed to controlling the volume level of the available tracks.



Pan: In this mode, the Q-Links are fixed to controlling the stereo panning of the available tracks.



Send 1–4: In these modes, the Q-Links are fixed to controlling each Send control on the available tracks.



At any time, in any mode, you can show the **Q-Links** window over the screen's current contents. This lets you quickly select between the knob modes.

To show the Q-Links window, press and hold the **Q-Link** button. On MPC X/X SE, press and hold any of the **Q-Link Mode** buttons (**Project**, **Program**, **Pad Scene**, **Pad Param**, or **Screen Control**).

Tap the respective icon to select a Q-Link mode: **Volume**, **Pan**, **Send 1–4**, **Project 1–2**, **Track**, **Track FX Rack**, **Pad Scene**, **Pad Parameter**, **MIDI**, or **Screen**.

Tap **Q-Link Edit** at the bottom of the window to open Q-Link Edit mode.

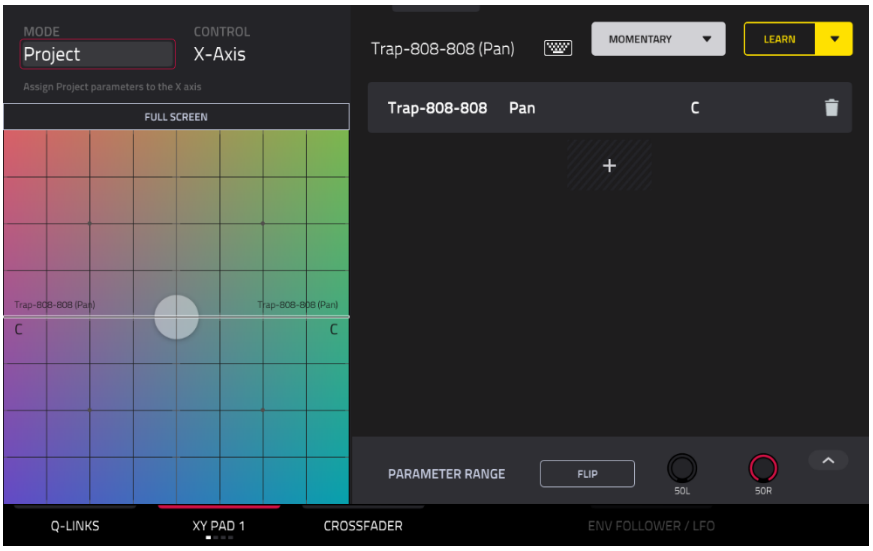
Tap the **Q-Link Status** button to enable or disable the pop-up showing the current Q-Link assignments and values when Q-Links are touched. This can also be adjusted in the ***Preferences > General*** menu.

To close the Q-Links window, release the **Q-Link** button.

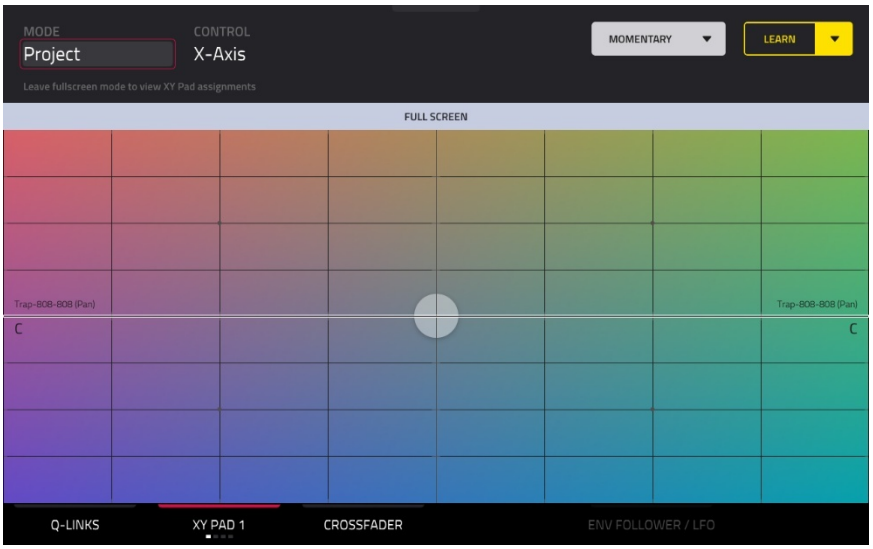
XY Pad

In the **XY Pad** tab, you can learn any automation parameter from within your project to one of four assignable XY Pads.

To cycle between the four available XY Pad assignments, tap the **XY Pad** tab.



Use the **Control** field at the top left of the touchscreen to select the part of the XY Pad that you would like to assign parameters to. This functions like a collection of different macros, allowing you to assign parameters to the X-Axis, Y-Axis, Columns 1–8, Rows 1–8, or even different to the axes of the Quadrants in the XY Pad.

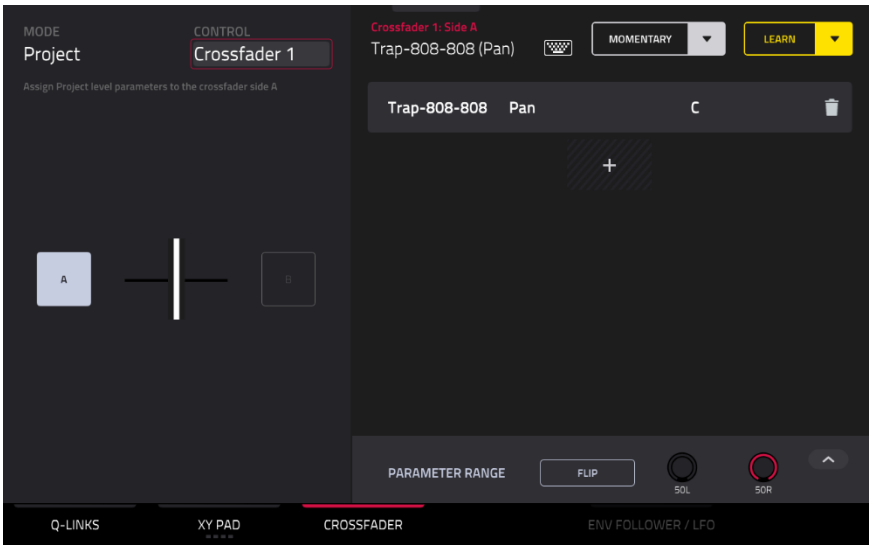


Use the **Full Screen** button to make the current XY Pad fill the entire screen.

To learn a parameter to the XY Pad, follow the directions ***above***.

Crossfader

In the Crossfader tab, you can learn any automation parameter from within your project to the Crossfader mode of MPC Key 61/37's Touch Strip.



There are 16 available crossfader scenes, which can be selected using the **Control** field at the top left of the screen. Each scene can be assigned to one or more parameters.

To learn a parameter to the crossfader:

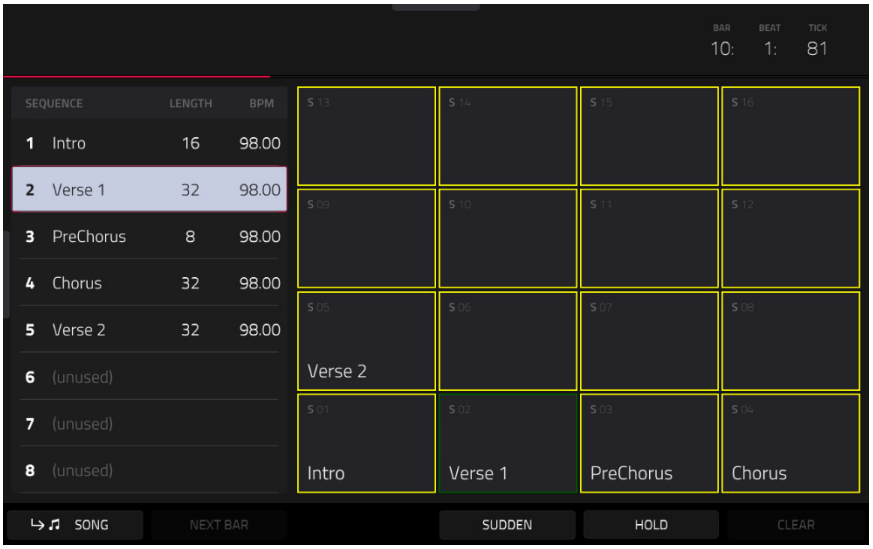
1. Make sure your MPC hardware is not currently in playback.
2. Select the parameter you would like to assign to the crossfader using the directions ***above***. Any available parameter, including Track, Pad, Keygroup, Insert, Return, Submix or Main Output parameters, can be selected as part of a macro control.
3. Tap the **A** or **B** crossfader side to select a crossfader side. When **A** is selected, the parameter will be assigned to the crossfader with the minimum value to the left side and the maximum value to the right side. When **B** is selected, the parameter will be reversed with the maximum value on the left side and the minimum value on the right side.

Next Sequence Mode

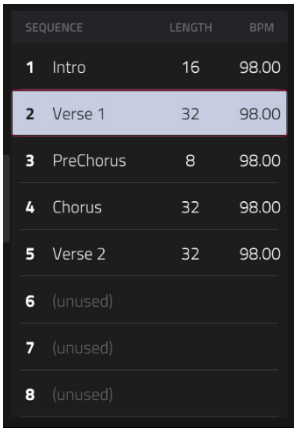
Next Sequence Mode lets you trigger different sequences simply by playing the pads. This is useful for live performances, letting you change a song's structure in real time.

To enter Next Sequence Mode, do either of the following:

- Press **Menu**, and then tap **Next Sequence**.
- Press **Next Seq** (MPC X, MPC Live II, MPC One).



The ***Time Counter*** in the upper-right corner the current playhead position.



The sequence playlist on the left side shows a list-style overview of **all** used sequences in your project:

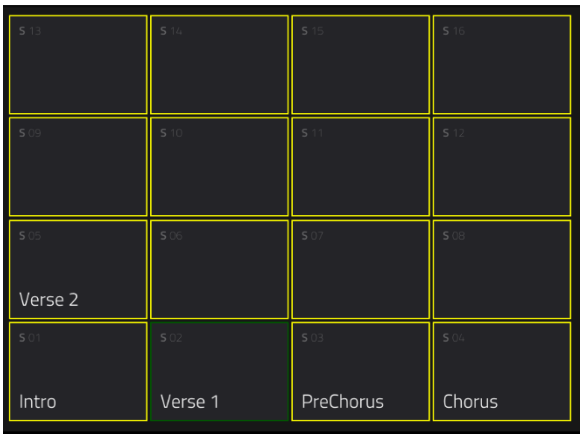
The **Sequence** column shows the name of the song's sequences.

The **Length** column shows the bar length of a sequence.

The **BPM** column shows the tempo of a sequence in beats per minute.

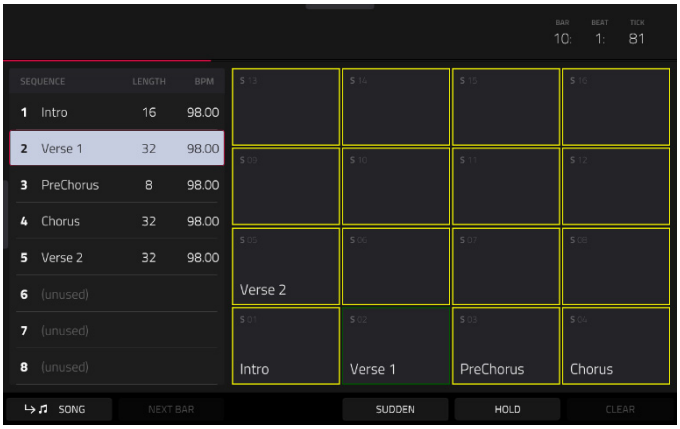
The currently selected sequence is highlighted in the list. Tap a sequence in the list to select it.

In Next Sequence Mode, every pad is assigned to a sequence, starting from **Pad A01** with **Sequence 1,** and ascending from there. The pads will show the names of their corresponding sequences. Empty pads correspond to unused sequences. The currently selected pad will flash **green**.



During playback, change the next sequence that will play by pressing the corresponding pad or tapping it on the screen. If you do not select another sequence, the current sequence will repeat indefinitely.

As a sequence plays, you can use the buttons at the bottom of the screen to change how playback works:



Tap **Next Bar** to switch to the currently selected sequence at the beginning of the next bar. This is useful if you want to switch to another sequence before the current one ends without having to worry about timing issues.

Tap **Sudden** to switch to the currently selected sequence immediately. The new sequence will start playing whether or not the current sequence is done. This is useful in live performances if you need to switch to the next sequence instantly at a certain cue.

Tap **Clear** to delete the currently selected sequence from the sequence playlist. This option is available only if that sequence is not playing at that moment.

Tap **Hold** to repeat the current sequence indefinitely and temporarily ignore pad presses. This is useful if you want to select other pads without selecting them to play next. Tap **Hold** again to return to normal operation.

To copy the sequence playlist to a song, tap ↳ **Song** while playback is stopped.

In the **Copy to Song** screen that appears, select a song, and then tap **Do It** to continue or **Close** to cancel.

To read more about Song Mode, please see the ***Song Mode*** chapter.

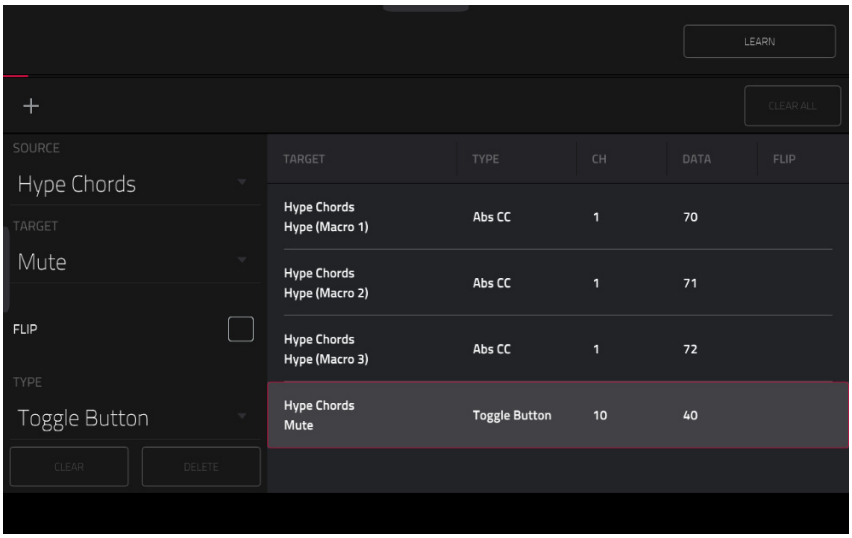
MIDI Learn

You can use the MIDI Learn function to assign external MIDI controllers to various parameters in your specific MPC project:

- Mixer parameters such as volume, pan, mute, and solo for tracks, returns, submixes, and main outputs.
- Pad parameters (for drum tracks only) such as tuning, filter and amp envelopes, layer settings, LFO settings, and velocity.
- Track parameters, which depend on the track type.
- Insert effects parameters, which depend on the effect type.

These assignments will be saved with your MPC project.

To enter MIDI Learn Mode, press **Menu**, and then tap **MIDI Learn**.



Each assignment has the following settings:

Source: This is the name or number of the track, return, submix, or main output.

Target: This is the name of the assigned command or parameter.

Type: This is the type of message:

- **Toggle Button**: When the control is a button, pressing it will activate or deactivate its command or parameter. It will remain in that state until you press it again.
- **Momentary Button**: When the control is a button, pressing and holding it down will activate its command or parameter. Releasing the button will deactivate it.
- **Fixed Button**: When the control is a button, pressing it will send its command.
- **Note**: When the control is a button, pressing it will send the MIDI note (determined by the **Data** field).
- **Abs CC**: When the control is a knob, turning it will send its CC message (determined by the **Data** field) according to the precise physical position of the knob. (When you start turning it, the value may "jump" from its current value to the one corresponding to the knob's position.) This is for use with knobs that have a maximum and minimum position.
- **Rel CC Offset**: When the control is a knob, turning it will send the CC message (determined by the **Data** field), starting from the current value. This is for use with 360° knobs controlling parameters that have a maximum and minimum position.
- **Rel CC 2's Complement**: When the control is a knob, turning it will send the CC message (determined by the **Data** field), starting from the current value. This is for use with 360° knobs controlling bipolar parameters where there is a center (12:00) position (e.g., panning).

Type is automatically detected based on the **Source** and **Target** fields, though you can use this field to assign it manually if it does not detect it properly.

Ch: This is the MIDI channel the control is using.

Data: This is the MIDI note number or CC number.

Flip: Tap this box to select or deselect it. When selected, the control's polarity will be reversed (e.g., a button's "off" state will become its "on" state and vice versa).

To assign a parameter to a hardware control:

1. Tap **Learn** in the upper-right corner so it is **on**.
2. Tap **+** on the left side of the touchscreen to create an "empty" assignment (its Target menus will be set to **None** and **Off**).

   Alternatively, tap an assignment that is already in the list if you want to change it.
3. Move or press the desired control on your MIDI controller. The **Type**, **Ch**, and **Data** fields will be automatically assigned.
4. Use the **Source** field to select a track, return, submix, or main output (for drum tracks, you can select the entire track or a single pad within it). The **Target** menu will indicate the source you selected.
5. Use the **Target** menu to select the parameter. Your selection will be shown under **Target** in the list, as well.

   The control on your MIDI controller will now control the Target parameter.

   To assign more controls, repeat **Steps 2–5**.

   To stop assigning controls, tap **Learn** again so it turns **off**.

To clear an assignment, tap it in the list, and then tap **Clear** in the bottom-left corner. Alternatively, follow the steps above to reassign its **Source** field to **None** and assign its **Target** field to **Off**.

To clear all assignments, tap **Clear All** in the upper-right corner.

To delete an assignment (the entire slot), tap it in the list, and then tap **Delete** in the lower-right corner.

Live Control Mode

Your MPC hardware is pre-mapped to control Ableton Live 10.1.2 or later for instant performance and production setup, providing an unparalleled level of integration with Ableton Live from a standalone device. MPC's Control Mode has been carefully designed to allow you to instantly switch between using MPC in standalone mode and Live Control mode without ever stopping playback. You can control Ableton Live over a Wi-Fi network for cableless operation, or connect standalone MPC X/X SE or MPC Live/Live II to your computer using a USB-to-Ethernet adapter for a more tightly controlled setup.

To get started with Ableton Live Control, you will need to follow the directions in the sections below to download, install and configure the necessary and software.

Note: Live Control Mode is not available with MPC Key 37 and MPC Key 61.

Setup

Akai Network Driver

The Akai Network Driver will allow your MPC to seamlessly communicate with and control Ableton Live.

1. Download the Akai Network Driver from your account at **akaipro.com** or using the inMusic Software Center, and install it by following the directions.
2. Once the installation has completed, restart your computer.
3. Power on your MPC.
4. Press **Menu** and tap the **gear icon** to open the **Preferences** menu.
5. Tap **Wi-Fi** to open the Wi-Fi settings. Make sure Wi-Fi is set to **On**, and then connect to your local wireless network.

   Alternatively, you can connect MPC to your network using a USB-to-Ethernet adapter. In this case, select **Ethernet** from the **Preferences** menu and make sure the **Enabled** option is checked.
6. Open the **Akai Network Driver** application.
7. In the **Configured Remote Device** field, locate the IP address and Serial Number of your MPC and select it. If you need to verify you are selecting the correct unit, you can view network information on your MPC in the **Wi-Fi** menu by holding **Shift** and tapping **Info**.
8. If you still do not see your unit's Serial Number and IP, click the **Add a Device** button to manually enter your unit's IP address.
9. Once your unit has been successfully configured, you can rename it by pressing the **Rename a Selected Device** button. When you are finished, you can close the Akai Network Driver application and open Ableton Live.

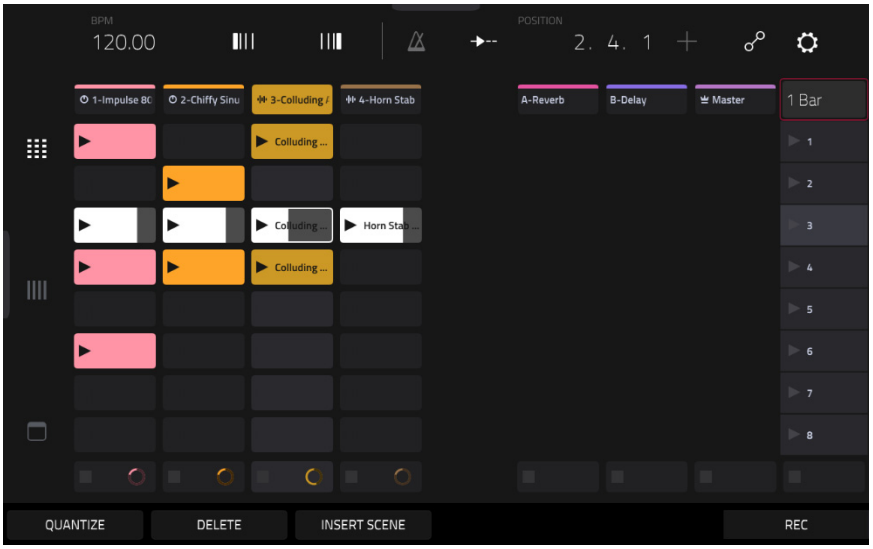
Configuring Ableton Live

1. **Important:** To use MPC to control Ableton Live, you will need to download and install version 10.1.2 or later.
2. Open Ableton Live 10.1.2 or later.
3. Open the **Preferences** menu by selecting **Live > Preferences**.
4. Make sure you have selected your preferred **Audio Device** in the **Audio** tab.
5. In the **Link / MIDI** tab, click the first available **Control Surface** field and select **Akai Force MPC**.
6. In the same row, select **Akai Network – DAW Control** as the **Input** and **Output**.
7. Under the **MIDI Ports** section, set **Remote** for the **Akai_Force_MPC Input** and **Akai_Force_MPC Output** to **On.**

Once the previous steps have been completed, you can begin controlling Ableton Live with your MPC.

To open Live Control mode, press **Menu** (or tap the icon in the upper-left corner of the screen) on your standalone MPC hardware and then tap **Live Control**.

To exit Live Control mode, press **Menu** (or tap the icon in the upper-left corner of the screen) on your standalone MPC hardware and then select another mode.



Live Control Mode consists of three main views, which can be selected by tapping the tabs on the left side of the display: ***Matrix View***, ***Mixer View,*** and ***Device Control View***. Click the links to jump to that section.

In each of these modes, you will always have access to the following controls and functions on the display:

Tap a track name to select it.

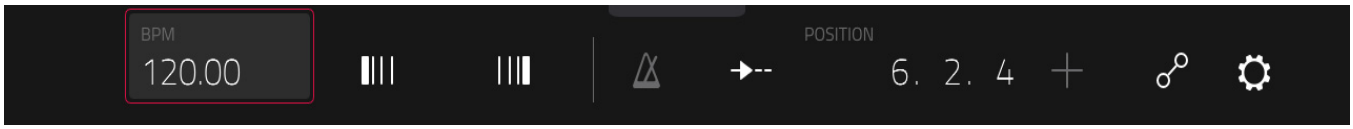
Tap the **stop icons** at the bottom of the display to stop clips in the selected track.

Tap the **Launch Quantize** field (above the scene launch arrows) to set the **Launch Quantize** value.

Tap the **Scene Launch arrows** on the right side of the display to launch all clips in that row.

Additionally, MPC's hardware controls are pre-mapped to give you hands-on control of parameters and functions. See ***Appendix*** > ***Ableton Control Maps*** for the complete mappings.

Control Bar



At the top of the interface is the **Control Bar**. This toolbar can be configured to one of three presets based on typical Ableton Live use cases in the **Settings** window.

To open the Settings window, tap the **gear icon** in the top-right corner of the display.

Use the **Control Bar** field to select one of the three preset configurations: **Settings**, **Arrangement** or **Performance**.

- **Session:** The Session View configuration is ideal for working in Ableton Live's 8x8 clip launch matrix.

  Use the **BPM** field to adjust the tempo in Ableton Live.

  Tap the **Phase Nudge Down** and **Phase Nudge Up** icons to temporarily decrease or increase the tempo in Ableton Live.

  Tap the **metronome icon** to enable to disable the metronome in Ableton Live.

  Tap the **follow icon** to turn following on or off. When set to on, your Ableton Live software display will move along with playback to keep the current playback position in view. You can adjust the **Follow Behavior** in Ableton Live's Preferences.

  Use the **Position** field to select the playback position.

  Tap the **+ icon** to enable or disable MIDI Arrangement Overdubbing.

  Tap the **automation icon** to enable to disable automation recording.

- **Arrangement:** The Arrangement configuration is ideal for working with Ableton Live's linear Arrangement view.

  Use the **BPM** field to adjust the tempo in Ableton Live.

  Use the **Position** field to select the playback position.

  Use the **Start** field to select the Arrangement loop start point.

  Tap the **loop icon** to enable or disable Arrangement looping.

  Use the **Length** field to select the Arrangement loop length.

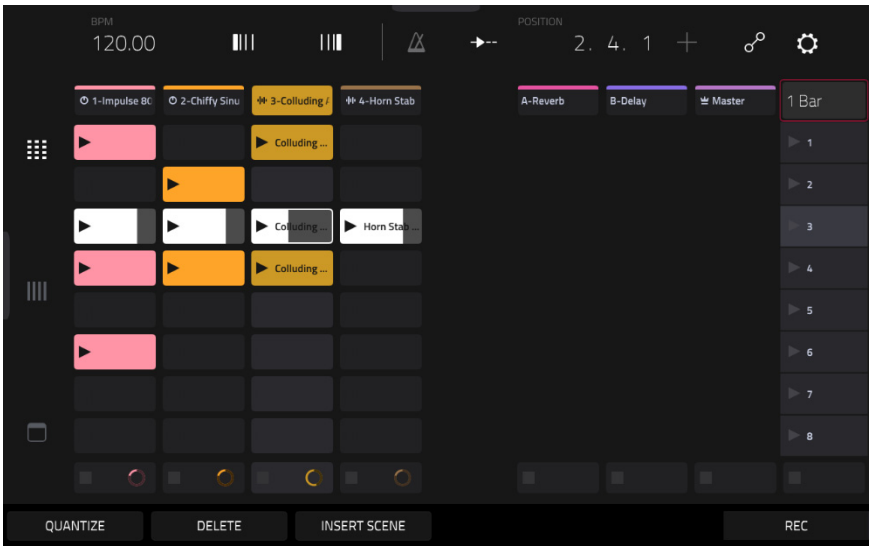
- **Performance:** The Performance configuration is ideal for real-time performance with Ableton Live.

  Use the **BPM** field to adjust the tempo in Ableton Live.

  Tap the **Phase Nudge Down** and **Phase Nudge Up** icons to temporarily decrease or increase the tempo in Ableton Live.

Use the **Quantize To** field to set the time division for quantization: **1/4**, **1/8**, **1/8T**, **1/8 and 1/8T**, **1/16**, **1/16T**, **1/16 and 1/16T** or **1/32**.

Matrix View



The Matrix View provides an overview of the clip matrix from Ableton Live's Session view, displaying up to eight tracks and eight rows of clips on the display. The tracks and clips displayed on your MPC's touchscreen will be shown in Ableton Live with a colored box outline.

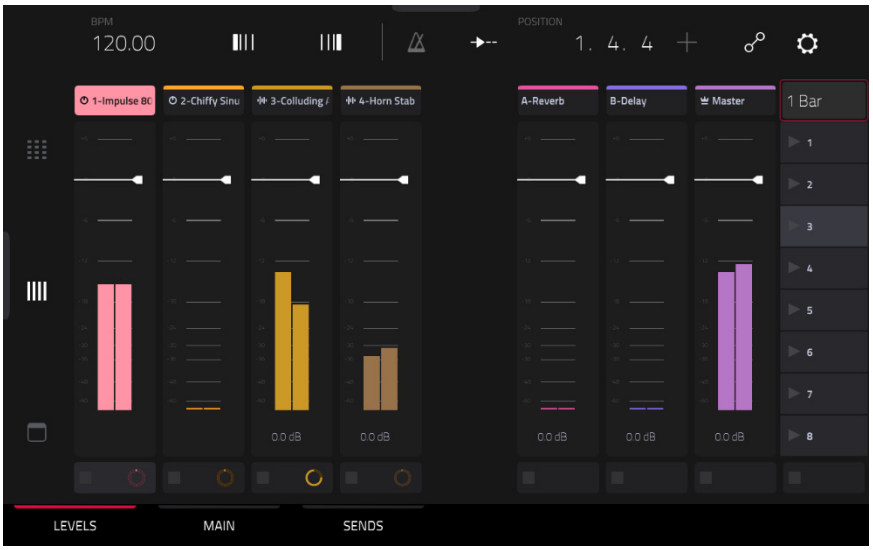
All tracks, clips and scenes will display the same color and names as assigned in Ableton Live. The pads on your MPC hardware will also change color depending on the playback or recording state:

- When a clip is stopped, it will display the color set in Ableton Live on both the hardware pads and display.
- When a clip is playing, the hardware pad will blink green, and the clip on the display will fill with white based on the clip length.
- When a clip is preparing to record, it will flash red on both the hardware pads and display until the launch quantization value is reached.
- When a clip is recording, it will blink red on the hardware pads and be lit red on the display.

You can also access the following controls and features by tapping the buttons at the bottom of the display:

- Tap **Quantize** at the bottom of the screen to quantize the currently selected clip according to the **Quantize To** value (set in the Ableton Live Control ***Settings***).
- Tap **Delete** at the bottom of the screen to delete the currently selected clip.
- Tap **Insert Scene** at the bottom of the screen to insert a new scene after the currently selected clip.
- Tap **Rec** at the bottom of the screen to enable or disable Ableton Live's Arrangement Record. Use this to capture your Session performance into the Arrangement view.

Mixer View



The Mixer View gives you control of Ableton Live's key mixing features, such as levels, stereo panning, sends and returns and more. Use the tabs at the bottom of the display to select what information is shown on MPC's display.

- **Levels:** The Levels tab gives you an overview of the volume level of your tracks, including the Returns and the Main Output track.

  Tap a **level slider** and then use the **data dial** or **–/+** buttons to adjust the volume level of the currently selected track, return or main output. Alternatively, tap and drag a **level slider** to adjust the volume level.

  The level sliders and meters in each pad show a visual representation of the level. Double-tap a **track** on the screen to open a large version of the level slider and meter.

- **Main:** The Main tab gives you a full channel strip with a number of mixing options for your tracks.

  Tap the **track activator** (under the track name) to enable or disable (mute) the track.

  Tap the **S** button to solo the track.

  Tap the **record button** to arm the track for recording.

  The **pan sliders** in each track show a visual representation of the pan. Tap a pan slider and then use the **data dial** or **–/+** buttons to adjust the panning of the currently selected track, return or main output. Alternatively, tap and drag the **pan slider** to adjust the panning. Double-tap a pan slider on the screen to open a large version of the slider.

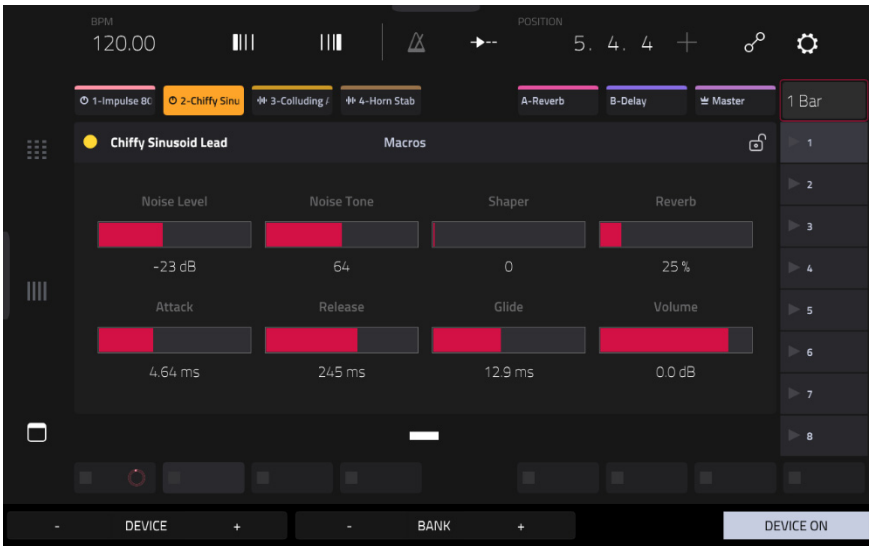
  Tap a **level slider** and then use the **data dial** or **–/+** buttons to adjust the volume of the currently selected track, return or main output. Double-tap a level slider on the screen to open a large version of the slider. Alternatively, tap and drag a **level slider** to adjust the volume level.

- **Sends:** The **Sends** tab gives you an overview of the Send and Return controls in Ableton Live.

  Use the **send knobs** to adjust the send level of tracks. Tap the knob and use the **data dial** or **–/+** buttons to adjust the level. Alternatively, tap and drag the **send knob** to adjust the send level.

  Tap the **A** or **B** icons to assign the track to the Ableton Live's A or B cue mix.

Device Control View



The Device Control View allows you to control MIDI Instruments, Audio Effects and other Devices in Ableton Live directly from your MPC. The current view of the Device Control Tab is determined by the "blue hand" remote control icon in Ableton Live's Detail View.

Tap the **Track Name** under the Control Bar to select the Track. If there is a Device(s) associated with the Track, the first will be shown below.

Tap the **lock icon** on the right side to lock parameter changes to the device.

Use the **sliders** to adjust the parameters of the device. Tap a **slider** and then use the **data dial** or **–/+** buttons to adjust the parameter. Alternatively, tap and drag a **slider** to adjust the parameter.

Use the **Device –** and **+** buttons to change devices on the same track. The white and grey boxes below the parameter sliders represent the number of available Devices.

Use the **Bank –** and **+** buttons to cycle through banks of controls for the device, if available. For internal Ableton Live plugins, you will see the name of the current bank. For third party plugins, you will see the number of the current bank.

Tap **Device On** to enable or disable (bypass) the device.

Q-Links

The Q-Links on your MPC give you hands-on control of Ableton Live's key parameters.

On MPC X/X SE, **Q-Links 1–8** control track volume for the eight tracks currently in view, while **Q-Links 9–16** control the device on the currently selected track, based on the "blue hand" in Ableton Live's Detail View. The OLED screens above each Q-Link also provide clear visual feedback of the parameter name and value being controlled.

On MPC Live/Live II, **Q-Link Banks 1** and **2** control track volume, and **Q-Link Banks 3** and **4** control the current device at the "blue hand" position. Press and hold the **Q-Link** button to bring up the Q-Links Overview on the touchscreen, where you can view the current assignments and quickly select another bank.

Song Mode

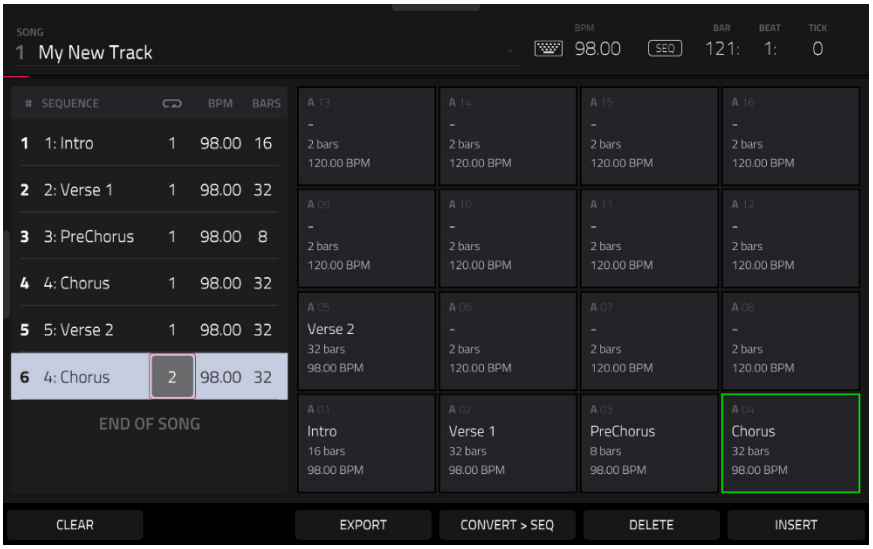
Song Mode lets you arrange sequences in a specific order and/or repetition to create songs. You can edit the structure of a song during playback for easy, on-the-fly composing.

A project can contain up to 32 songs, each consisting of up to 999 “steps.” Each step can have an assigned sequence as well as the number of times that sequence will repeat.

To open Song Mode, do either of the following:

- Press **Menu**, and then tap **Song Mode**.
- Press **Shift** and **Next Seq/Song** (MPC X).

Important: If a sequence is currently playing, stop playback before entering Song Mode during playback.

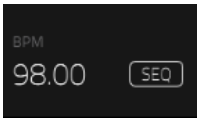


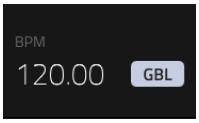
Use the **Song** field to select the song you want to show.

Tap the **keyboard** icon to rename the current song.

Use the **BPM** field to adjust the tempo of the sequence.

Tap the **Seq/Gbl** button to set whether the sequence follows its own tempo (**Seq**) or a global tempo (**Gbl**). Alternatively, press **Shift** and **Tap/Master**.



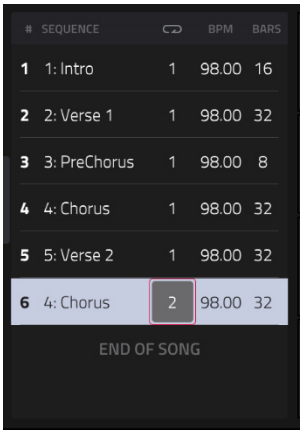


The ***Time Counter*** shows the current playhead position, in **bars:beats:ticks**.

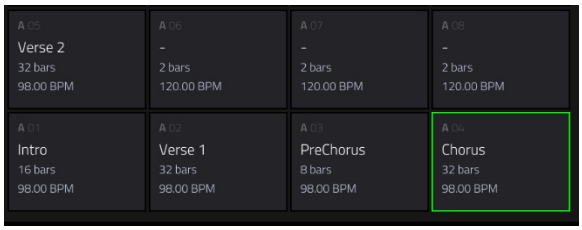
The sequence playlist on the left lists of the “steps” of a song.

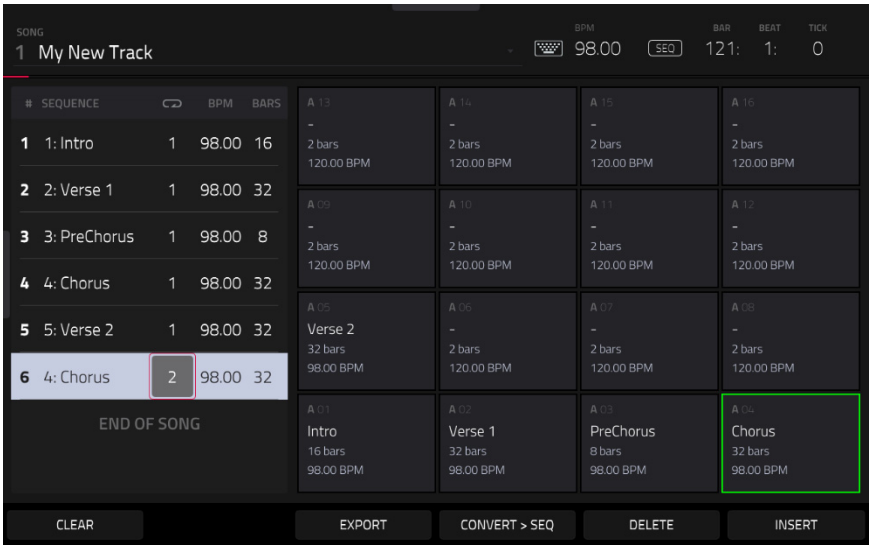
Each step has (in columns, left to right):

- the step number (each song can contain up to 999 steps)
- a sequence number and name
- how many times the sequence plays (each step can play up to 999 times; set it to **Hold** [the lowest/minimum value] to set the sequence to repeat indefinitely until you stop playback)
- the tempo of the sequence
- the number of bars the step occupies (based on how many times it plays)



Each used sequence is assigned to a pad. Empty pads correspond to unused sequences. Use the **Pad Bank** buttons to access the sequences assigned to pads in other banks.





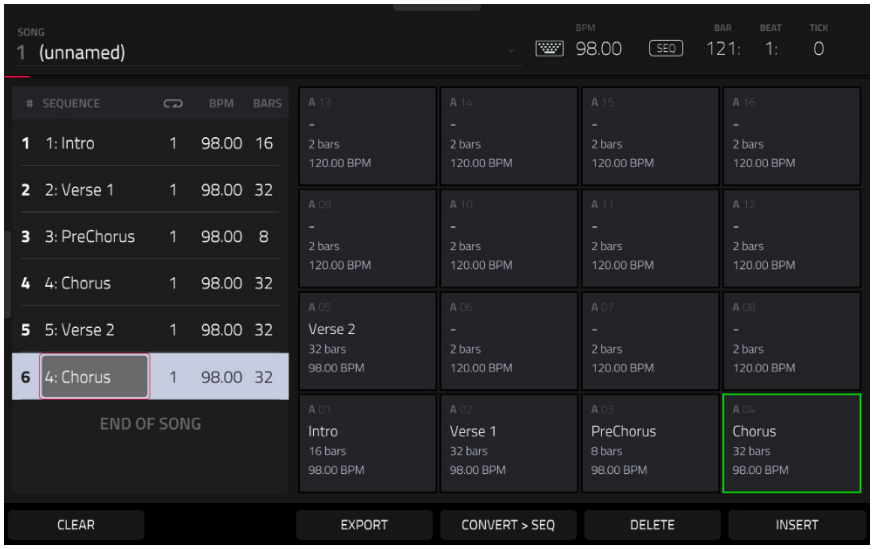
To insert a step:

1. Tap a **step** in the sequence playlist after which you want to insert a step.
2. Tap **Insert** in the lower-right corner of the screen.

Alternatively, “record” a song using the pads:

Note: The sequences or song will not play back as you use the pads to create your song in this way. Pressing the pads just enters their corresponding sequences as steps.

1. Press **Rec** or **Overdub** to “record-arm” the song.
2. Press or tap the **pad** that corresponds to the first sequence you want to use. That sequence will appear in the sequence playlist as the first step.
3. Repeat **Step 2** for each additional step you want to add to the sequence playlist. Press or tap a **pad** multiple times to add to the number of times it plays.
4. Press **Stop** to stop “recording.”



To change a step's sequence:

1. In the desired step, tap the **sequence name**.
2. Use the **data dial** or **–/+** buttons to select another sequence.

Tap **Clear** to erase the entire sequence playlist (delete all steps).

To delete a step, tap it, and then tap **Delete** in the lower-right corner of the screen.

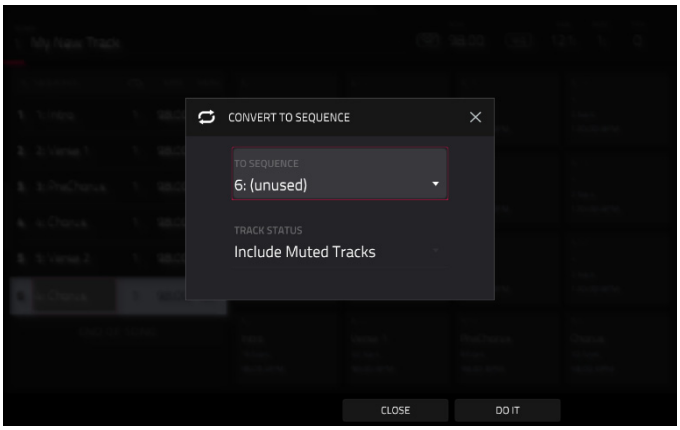
Tap **Next** to switch to the next sequence at the beginning of the next bar during playback. This is useful if you want to switch to another sequence before the current one ends without having to worry about timing issues.

Tap **Sudden** to switch to the next sequence immediately during playback. The new sequence will start playing whether or not the current sequence is done. This is useful in live performances if you need to switch to the next sequence instantly at a certain cue.

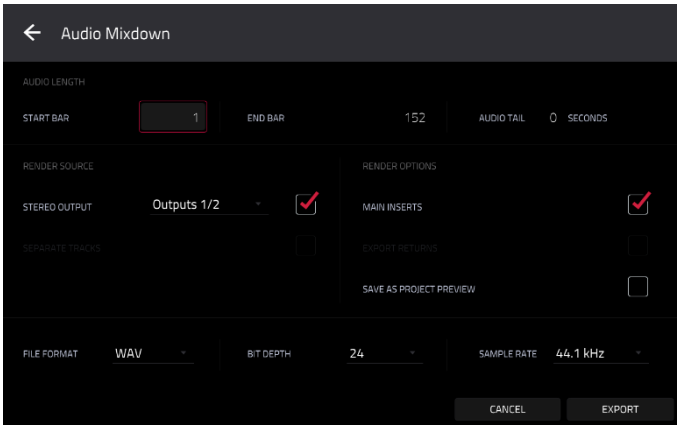
To convert the current song to a single sequence:

1. Tap **Convert** > **Seq** to open the **Convert to Sequence** window.
2. Use the **To Sequence** field to select which sequence you want the song to export to.
3. Use the **Track Status** field to select whether you want the song to **Exclude Muted Tracks** or **Include Muted Tracks** in the new sequence.
4. Tap **Do It** to confirm your selections.

   Tap **Close** to cancel the process.



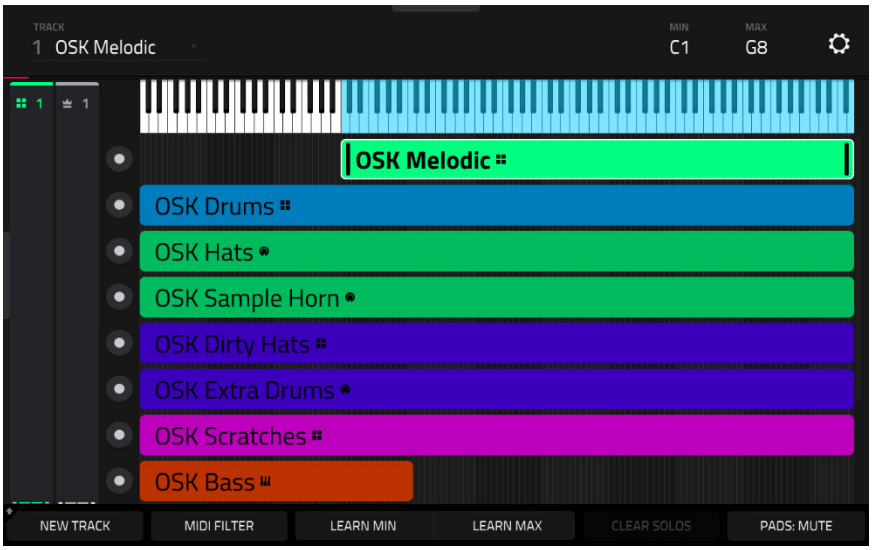
Tap **Export** to open the ***Audio Mixdown*** screen, where you can render/export your song as an audio file.



Key Ranges Mode

Key Ranges Mode gives you an overview of the MIDI tracks in your project. This mode includes functionality similar to ***Track View*** mode and ***Main Mode***, but may be more useful when setting up a large external keyboard to control multiple instruments at the same time.

To open Key Ranges Mode, press **Menu**, and then navigate to **Key Ranges** on the second page of modes and tap it.



Tap the **gear icon** in the upper-right corner to open the Key Ranges Settings window. Here, you can adjust the **Solo Behavior** to be either **Single** (so only one track can be soloed at a time) or **Multi** (multiple tracks can be soloed at a time).

Use the **Track** field at the top of the screen to select a track. You can also tap a track bar under the keyboard to select it.

Use the **Min** and **Max** field to set the minimum MIDI note value and maximum MIDI note value for the track. You can also tap and drag along the edges of the track bar to resize the key range, or tap and drag from the middle of the track bar to move the entire range left or right.

Alternatively, tap the **Learn Min** or **Learn Max** buttons at the bottom of the screen, and then press a key on a connected keyboard to set that note as the minimum or maximum MIDI note value of the key range.

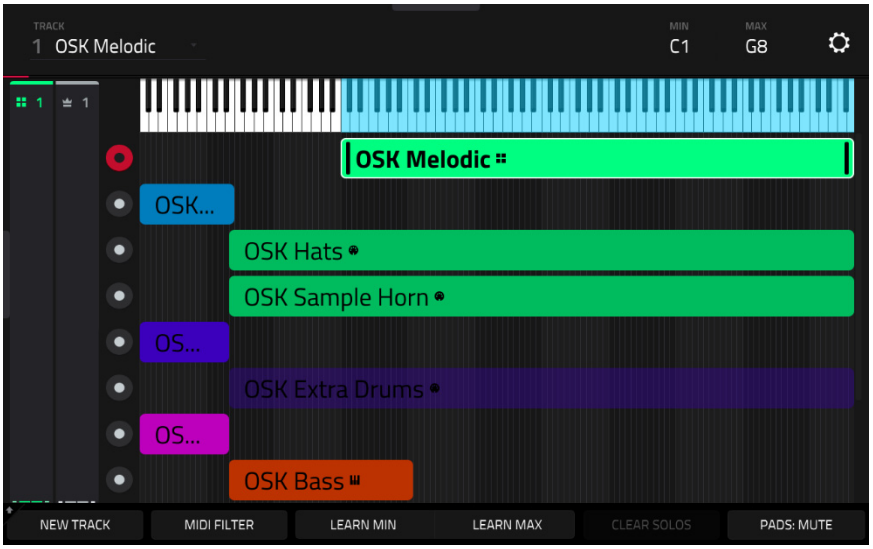
Tap **New Track** to add a new track.

Tap **MIDI Filter** to apply MIDI filtering to each track:

- Use the Note Min and Note set the minimum MIDI note value and maximum MIDI note value for the track.
- Use the Velocity Min and Velocity Max fields to set the range of incoming velocity for the track.
- Use the MIDI CC Filter fields enable or disable certain MIDI CC messages from being input. Check a box to enable the selected message, or uncheck to filter it out.
- Tap the **Reset** button to reset all MIDI Filter settings.

Tap **Pads: Mute/Solo** to cycle between track muting and soloing using the MPC hardware pads while in Key Ranges mode.

When using Track Soloing, tap the **Clear Solos** button to unsolo tracks that have been soloed.



To instantly adjust the key range for drum tracks, press and hold **Shift** and then tap **Drum Split**. This will automatically set the key range of Drum Tracks to the first 16 notes of the keyboard so that they correspond with Pads 1–16. This is useful for using the MPC Key 61 to play melodic sounds on the keybed and drum sounds on the pads at the same time.

Key Ranges mode also provides access to the same XL Channel Strips as seen in ***Main Mode***. Tap the icons at the top of the condensed strips to show or hide the mixer channel strips.

MIDI Control Mode

You can use MIDI Control Mode on your MPC hardware to customize what MIDI messages are sent from certain controls on your hardware. This custom "control map" will then work whenever you are in MIDI Control Mode. The edits you make in MIDI Control Mode will be retained with the current MPC project.

This feature enables you to use your MPC hardware to control external MIDI devices connected to its MIDI out.

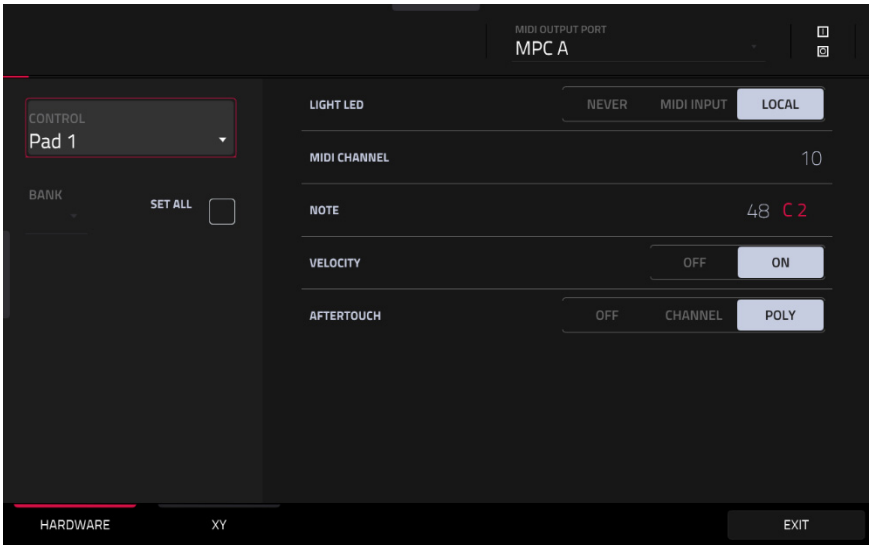
To enter MIDI Control Mode, do either of the following:

- Press **Menu**, and then navigate to **MIDI Control** on the second page of modes and tap it.
- Press **Shift** and **Program Edit/MIDI Control** (MPC One), or press **Shift** and **Keyboard Control/MIDI Control** (MPC Key 61, MPC Key 37).

Important:

In Standalone Mode: Make sure your MPC hardware is using the correct MIDI output. You can set this using the **MIDI Output Port** field at the top of the touchscreen, or in ***Preferences*** > ***MIDI / Sync***.

In Controller Mode: In your host software, make sure your MPC hardware is selected as a MIDI controller device.



In the touchscreen, use the fields and selectors to set each control's parameters to your preference. The available parameters depend on its type: a **pad**, or **button**, a **Q-Link knob**, or each axis of the **XY pad**. When you have set all of the parameters as desired, you can select another control or enter another mode.

Use the **MIDI Output Port** field at the top of the touchscreen to set the MIDI port that the MPC hardware will send messages from. You can also set this in the **MIDI / Sync** section of the ***Preferences*** menu.

Tap the I/O buttons at the top of the touchscreen to open the ***MIDI Monitor***.

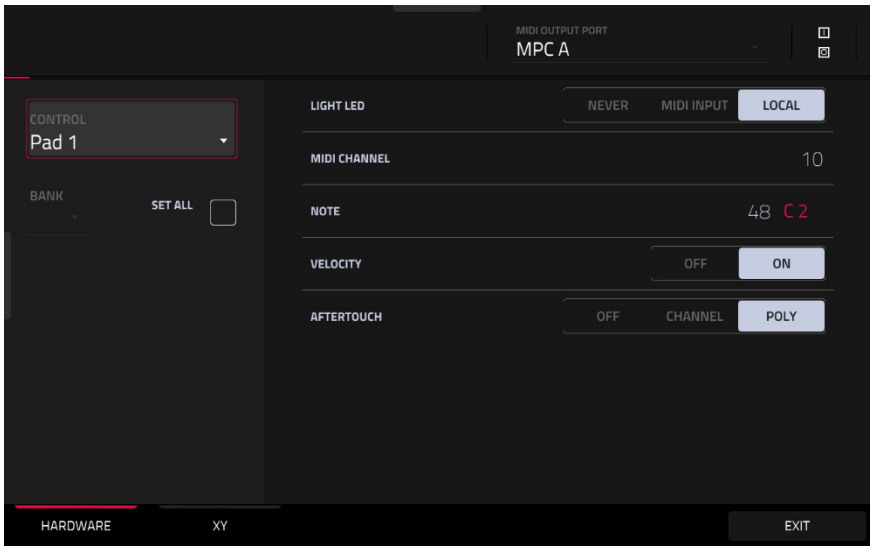
To select a control to edit, do any of the following:

- Press or turn it. In the lower-left corner, tap the **Hardware** tab to edit a **pad**, **button**, or **Q-Link knob**, or tap the **XY** tab to edit the **XY pad**.
- Tap the **Control** field in the upper-left corner, and then turn the **data dial** to select one.
- Double-tap the **Control** field, and then tap a control name in the menu that appears.

Note: The **Control** field menu will show many more hardware controls than are actually available on your MPC hardware. This is because the list includes all possible controls from all current MPC models (MPC X, MPC Live, etc.). You can edit only the controls that are described in this chapter.

Note: The software window will also display a graphical interface resembling your MPC hardware. Editable controls show their current MIDI message. Pads and Q-Link knobs show their current MIDI channels.

Pads



These are the MIDI parameters you can edit for each **pad**:

Control: This is the hardware control you are currently editing (**Pad 1**–**Pad 16**).

Bank: This is the pad bank the pad belongs to. If you check the **Set All** box, the pad's messages and parameters will be identical across all eight banks.

Set All: When this box is checked, the pad's messages and parameters will be identical across all eight banks. When this box is unchecked, the pad's messages and parameters will apply to the current pad only.

Light LED: This determines how the pad's LEDs will behave.

When set to **Never**, the LEDs will always be off.

When set to **MIDI Input**, the LEDs will light up when the software receives a MIDI message that matches the pad.

When set to **Local**, the LEDs will light up when you press the pad and/or MIDI input is received.

MIDI Channel: This determines which MIDI channel (**1**–**16**) the pad will use to send its message to the software.

Note: This is the MIDI note number the pad will send to the software when you press it (**0**–**127** or **C-2** to **G8**).

Velocity: This determines whether the pad will be velocity-sensitive (**On**) or not (**Off**). When set to **Off**, pressing the pad will send a note at full-level (**127**) always.

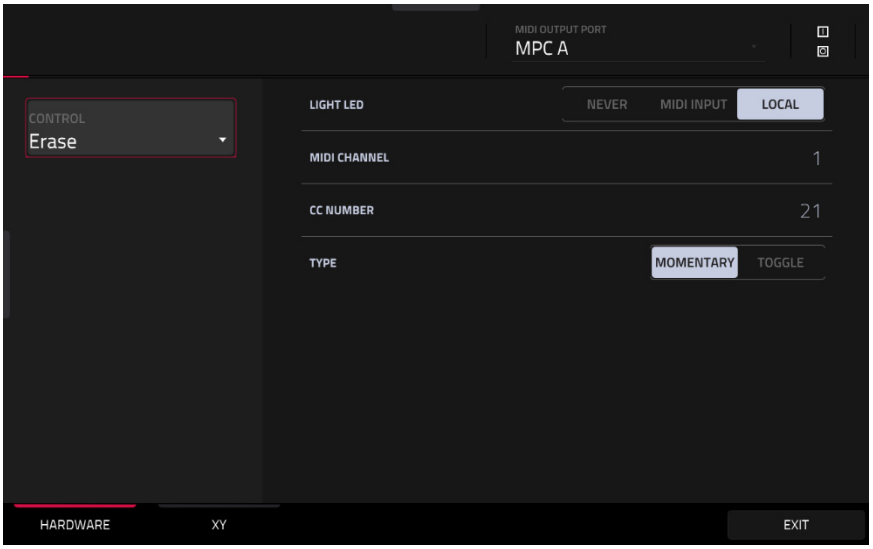
Aftertouch: This determines how the pad's aftertouch (pressure applied to the pad after the initial press) behaves.

Off: The pad will not send any aftertouch messages.

Channel: If you press multiple pads that have this setting, the aftertouch messages they send will be identical.

Poly: If you press multiple pads, the aftertouch message each pad sends will be independent from the others.

Buttons



These are the MIDI parameters you can edit for each button. You can edit the **Erase**, **Tap**, **Undo**/**Redo**, or **Copy**/**Delete** buttons:

Control: This is the hardware control you are currently editing (**Erase**, **Tap**, **Undo**, or **Copy**).

Light LED: This determines how the button's LED (or multiple LEDs) will behave.

When set to **Never**, the LEDs will always be off.

When set to **MIDI Input**, the LEDs will light up when the software receives a MIDI message that matches the button.

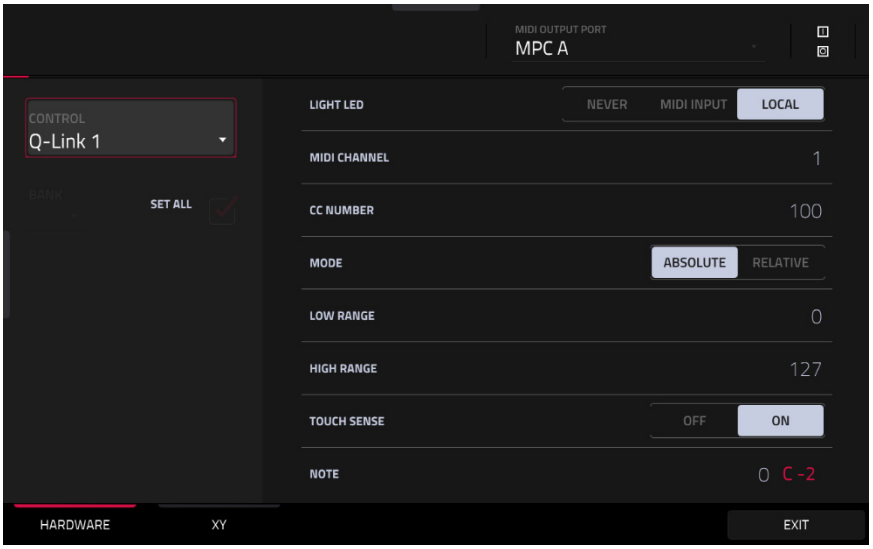
When set to **Local**, the LEDs will light up when you press the button and/or MIDI input is received.

MIDI Channel: This determines which MIDI channel (**1**–**16**) the button will use to send its message to the software.

CC Number: This determines what MIDI Control Change number the button will send to the software.

Type: This determines whether the button will behave as a **Momentary** switch or **Toggle** (latching) switch.

Q-Link Knobs



These are the MIDI parameters you can edit for each **Q-Link knob** and the **Touch Strip**:

Control: This is the hardware control you are currently editing (**Q-Link 1–16, Touch Strip**).

Light LED: Although you can edit this parameter, it does not actually have a function on your MPC hardware.

When set to **Never**, the LEDs will always be off.

When set to **MIDI Input**, the LEDs will light up when the software receives a MIDI message that matches the Q-Link knob.

When set to **Local**, the LEDs will light up when you touch or turn the Q-Link knob and/or MIDI input is received.

MIDI Channel: This determines which MIDI channel (**1–16**) the Q-Link knob will use to send its message to the software.

CC Number: This determines what MIDI Control Change number the Q-Link knob will send to the software.

Mode: This determines how the Q-Link knob will control its parameter. This is not available when Touch Strip is selected.

Absolute: The Q-Link knob's current position determines its parameter's value; moving it may cause its parameter to "snap" to a new position if you're using it to control different parameters in different modes.

Relative: Moving the Q-Link knob will increase or decrease its parameter regardless of its physical position.

Low Range: This is the Q-Link knob or Touch Strip's lowest possible value (**0–127**).

High Range: This is the Q-Link knob or Touch Strip's highest possible value (**0–127**).

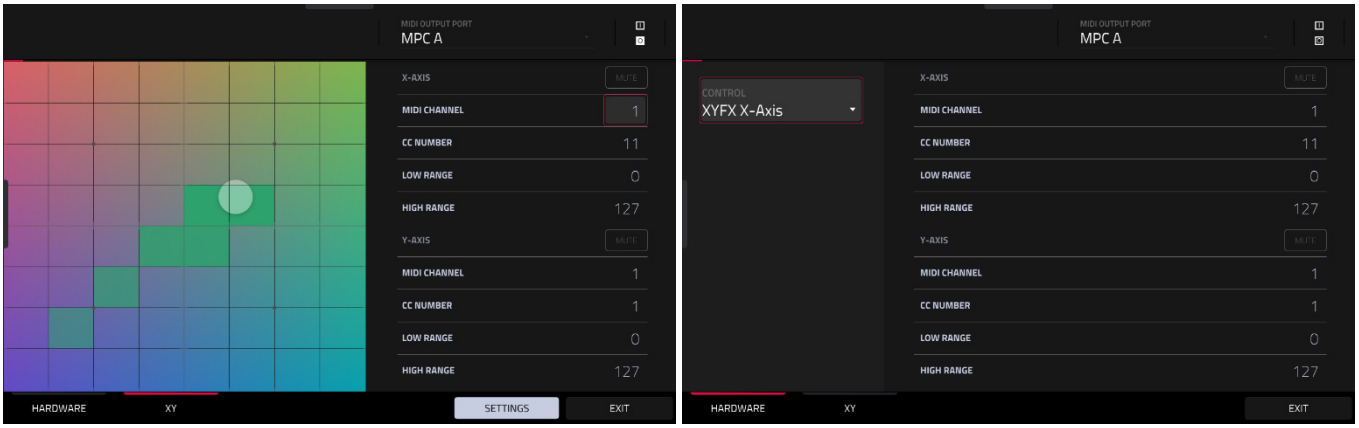
Touch Sense: This activates or deactivates the Q-Link knob or Touch Strip's touch-capacitive circuitry.

On: You can touch the Q-Link knob or Touch Strip to send a Note On message to the software (this is how your MPC hardware normally works).

Off: The Q-Link knob or Touch Strip will not send any Note On messages; it will only send CC messages when you turn it.

Note: This is the MIDI note number the Q-Link knob or Touch Strip will send to the software when you touch it (**0–127** or **C-2** to **G8**). **Touch Sense** must be set to **On** for this to work.

XY Pad



These are the MIDI parameters you can edit for each axis of the **XY pad**:

Control: This is the axis you are currently editing (**XYFX X-Axis** or **XYFX Y-Axis**). This field will be hidden if you tapped the **XY** tab to show the XY pad's parameters. You can tap the **Hardware** tab to show this field.

Mute: This button determines whether the axis is muted or not. When muted, its MIDI output is disabled. You must be viewing the **Settings** to do this.

MIDI Channel: This determines which MIDI channel (**1**–**16**) the axis will use to send its message to the software.

CC Number: This determines what MIDI Control Change number the axis will send to the software.

Low Range: This is the axis's lowest possible value (**0**–**127**).

High Range: This is the axis's highest possible value (**0**–**127**).

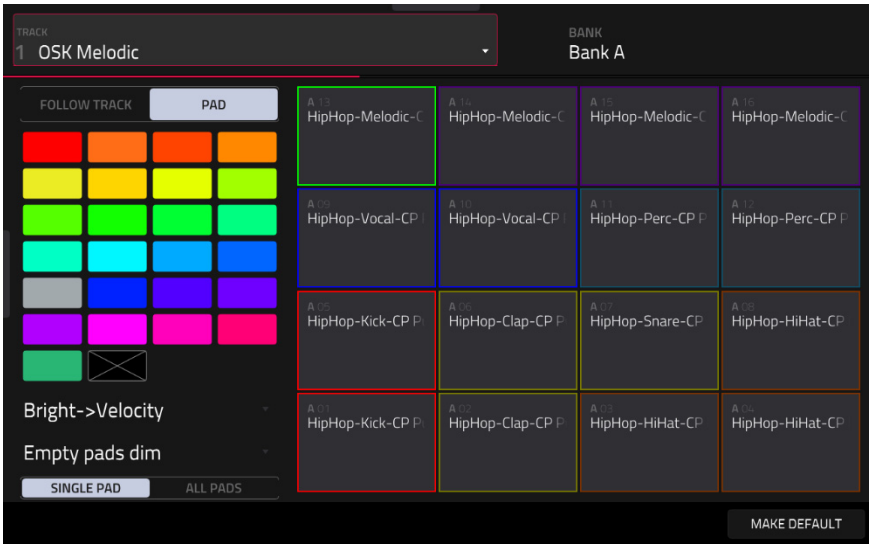
Pad Color Mode

Pad Color Mode lets you assign specific colors to your pads in a track.

To enter Pad Color Mode, press **Menu**, and then navigate to **Pad Color** on the second page of modes and tap it.

Use the **Track** field at the top of the screen to select the desired track. Keygroup, Plugin, MIDI, and CV tracks will use the ***Pad Perform*** mode pad color layout by default. To create a custom pad color layout for these tracks, tap the pad area on the screen after selecting the track. This will enable custom pad colors for all tracks using Pad Perform mode.

Use the **Bank** field to select the desired bank of pads in the current track.



Use the field in the lower-left corner to set how the pad lights will display:

- **Off**: The pads will be unlit whether you are playing them or not.
- **Classic Velocity**: The pads will be unlit while you are not playing them. When you press them, they will light with colors according to the velocity: red indicates a high velocity, yellow indicates a low velocity.
- **Fixed**: The pads will be lit with their assigned colors whether you are playing them or not.
- **Off->Velocity**: The pads will be unlit when you are not playing them. When you press them, they will light with their assigned color with a brightness that corresponds with the velocity.
- **Dim->Velocity**: The pads will be dimly lit when you are not playing them. When you press them, they will light with their assigned color with a brightness that corresponds with the velocity.
- **Bright->Velocity**: The pads will be brightly lit when you are not playing them. When you press them, they will light with their assigned color with a brightness that corresponds with the velocity.

Use the **Empty Pads** field in the upper-left corner to set how empty pads will display:

- **Empty pads off**: Pads without any sounds will remain off.
- **Empty pads dim**: Pads without any sounds will remain more dimly lit than pads with sounds assigned.
- **Empty pads normal**: Pads without any sounds will appear the same as pads with sounds assigned.

Use the **Single Pad/All Pads** select to determine whether you are setting the color for a **Single Pad** or **All Pads**.

Tip: **To quickly assign that color to all pads in the track**, press and hold **Shift** while tapping a color button.

Use the **color buttons** to select which color you are assigning.

Tip: **To select the color button corresponding to a specific pad's color**, press and hold **Shift**, and then press the pad or tap it on the screen.

Press a **pad** on your MPC hardware or tap it on the screen to assign the selected color to it.

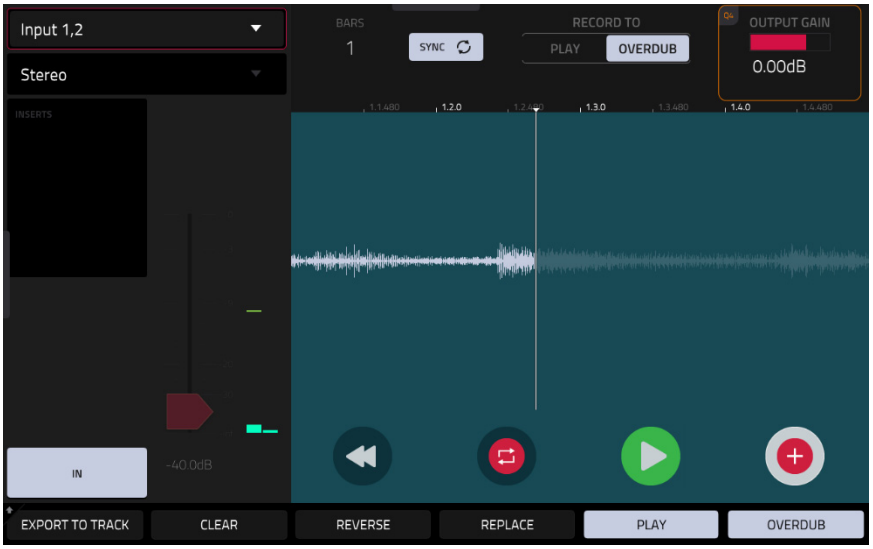
Tap **Make Default** to make the current pad color settings the defaults for all tracks on the same type (e.g., drum tracks, keygroup tracks, etc.). In the window that appears, tap **Do It** to confirm your choice or **Cancel** to cancel.

Looper

The Looper lets you record and overdub audio in real time—a great tool for live performance as well as spontaneous moments in the studio. You can export the loop as a sample to use in your project.

To open the Looper, do either of the following:

- Press **Menu** and then navigate to **Looper** on the second page of modes and tap it.
- Press **Shift** and **Sampler/Looper** (MPC X, MPC One).



Below is a brief step-by-step process so you can get started quickly. Continue reading the rest of this chapter to learn how to use the Looper in different cases.

To get started using the Looper:

1. Make sure to reduce the volume levels of your audio source and speakers/headphones/monitors before you make any connections to avoid “pops” or feedback.
2. Connect your audio source to the input/inputs of your MPC hardware.

   For line-level devices such as a synthesizer, set the **Line/Inst** switch to **Line**; for instrument-level devices such as a guitar, set the switch to **Inst**.

   If you are using a microphone that requires phantom power, set the **+48V** switch to **On**.
3. Turn the **Gain** knob to set the input level while playing your audio source. You should now see the level in the meter. Make sure it does not exceed the maximum level (the meter should not be “peaking” constantly).
4. Set the recording controls as desired (described in this chapter).
5. If the **Sync** button at the top of the screen is enabled, Looper recording will only be active during sequence playback. Tap it to disable transport sync, allowing you to freely record with the Looper.
6. Tap the **Record To** selector so **Overdub** is selected.
7. Tap the **Rec/Record** button in the lower-right corner to record-arm the Looper.
8. Play your audio source. The Looper will start recording immediately when the input level reaches the threshold value. Alternatively, tap ▶/**Play** at the bottom of the screen to manually start recording.

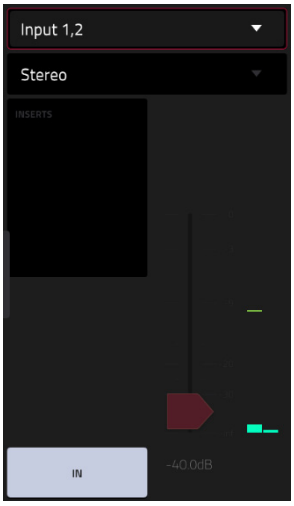
   Each time the Looper repeats, its contents are being overdubbed—a new layer of audio will be added each time you let the Looper repeat as it records.

   Tip: You can record a loop while playing one or more tracks in the background for reference.
9. Tap ▶/**Play** at the bottom of the screen to stop recording.

   Tap **Export to Track**, or hold **Shift** and tap **Export to Pad**, to open the **Keep or Discard Sample** window and export your loop as a sample to a track or pad.

   Tap **Clear** to clear the contents of the Looper.

The upper-left **Input Source** field defines whether you are going to record an external audio signal, which you can set to the pair of inputs (**Input 1,2**) or a single input (**Input 1–2**). You can also select an internal signal from within your MPC hardware (**Resample L**, **Resample R**, or **Resample L+R**).



Resampling does not require an audio connection because the source is internal and is therefore recorded without any loss in audio quality. You can, for example, use Resample to record two or more samples by pressing the corresponding pads simultaneously.

Use the second upper-left **Mono**/**Stereo** field to choose whether your recorded loop will be monaural (**Mono**) or binaural (**Stereo**).

The **Inserts** field shows any enabled or disabled effects for the Looper. Tap the area under **Inserts** to open a window where you can load, change, and enable or disable the effects.

Important: These effects are applied to the audio as you record it. This means that the effects cannot be "removed" from the sound later. Learn more about how effects work in ***General Features*** > ***Effects***.

Tap the **Monitor** button to enable or disable input monitoring.

When set to **In**, the audio you hear in your headphones will be taken **before** it reaches the Looper, ensuring zero latency. You can turn input monitoring on only if the **Input Source** field is set to an input, not to a **Resample** setting.

When set to **Off**, the audio you hear in your headphones will be taken **after** it is processed in the Looper, so there may be some latency, but you will hear the audio source as it sounds in the recording.

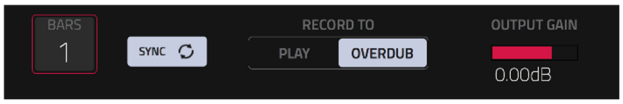
Tip: **To avoid possible clicks or feedback while input monitoring**, reduce the level of the audio sources.

Use the **threshold slider** to adjust the threshold. Alternatively, turn **Knob 1** when the knobs are set to **screen mode**. The threshold slider will work only when **Sync** is **off** (see ***below***).

When the Looper is record-armed, it automatically starts recording when the level of the incoming source exceeds this setting. If you set it too high, the recording may not start when you play the input source, or the start of the material you wanted to record may be missing. If you set it too low, the recording may start too early, before you play the external source. Set this parameter to an appropriate level using the level meter.

To reset the "**peak hold**," which shows the highest level of your input signal in the level meter, tap it.

Use the **Bars** field to define the length of your loop. Regardless of how much or how little audio you record, this is how long your loop will be.



Use the **Sync** button to sync or un-sync the looper with transport playback. When on, the Looper will stay in step with your project. When you play or record into the Looper, it will wait until the transport starts playing to start.

Use the **Record To** selector to determine the loop recording behavior:

- **Play**: Before recording, you must first tap the ▶/**Play** button on the screen, which will start playing the Looper.
- **Overdub**: Before recording, you must first tap the **Rec**/**Record** button in the lower-right corner to record-arm the Looper.

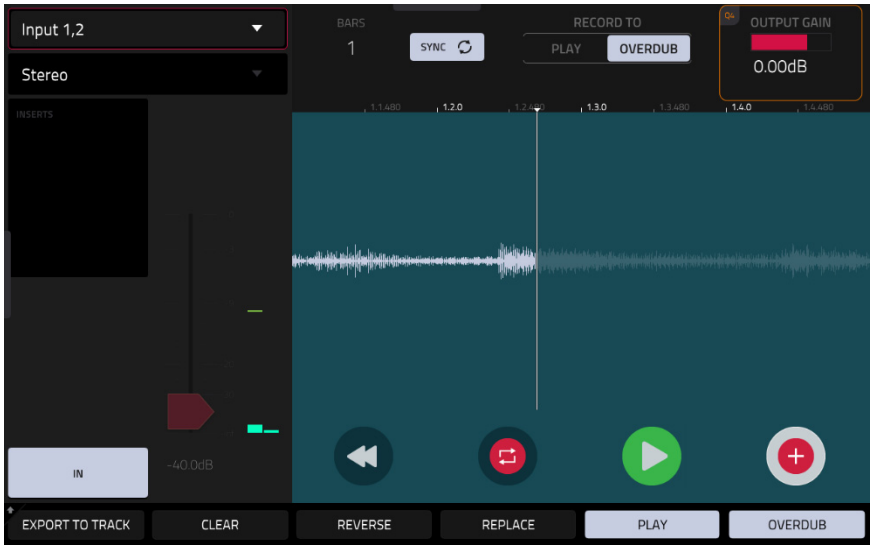
Use the **Output Gain** slider to set the output signal level of the Looper.

To record with the Looper:

Important:

To record without erasing any audio you've already recorded in the loop, use the **Overdub** button.

To overwrite the audio you've already recorded, use the **Replace** button.



If **Record To** is set to **Play**:

To start recording, tap the **Replace** or **Overdub** button as the loop is playing. The Looper will start recording immediately.

To stop recording, tap the **Replace** or **Overdub** button. The Looper will stop recording but continue playing.

To stop playback and recording, tap the ▶/**Play** button.

If **Record To** is set to **Overdub**:

To start recording, tap the ▶/**Play** button on the screen.

If **Sync** is off, you can also play your audio source so that the input level reaches the threshold value.

If **Sync** is on, you can also press the **Play** or **Play Start** button to start transport playback; recording will start when the transport starts playing.

To stop recording, tap **Overdub**. The Looper will stop recording but continue playing.

To stop playback and recording, tap the ▶/**Play** button, or press **Stop** to stop transport playback.

To play or stop the loop (without recording), tap the ▶/**Play** button on the screen.

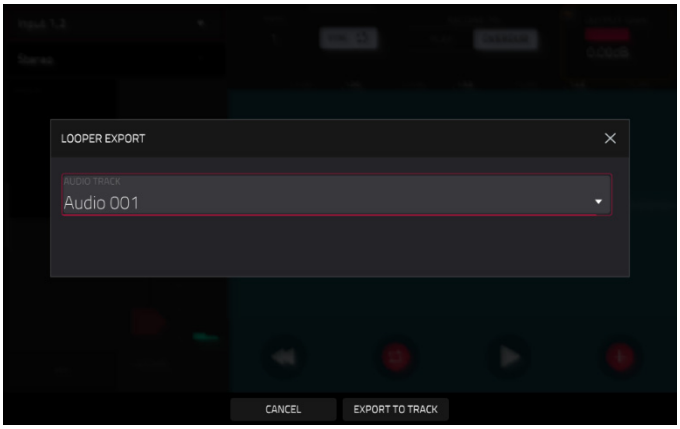
To reverse loop playback, tap **Reverse**. If **Sync** is **on**, playback will reverse once the Looper's playhead reaches the end of the loop. If **Sync** is **off**, playback will reverse immediately.

To erase the loop immediately, tap **Clear**.

To export the loop to an audio track:

1. Tap **Export to Track** to open the **Looper Export** window.
2. Use the **Audio Track** field to select the audio track you would like to export the sample to.
3. Tap **Export to Track** to confirm your choice, or **Cancel** to cancel.

   When your loop is done exporting, it is assigned to the track you selected.

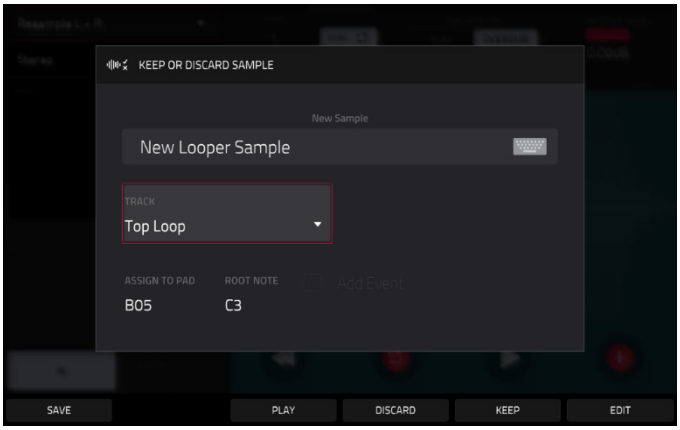


To export the loop to a pad:

1. Press and hold **Shift** and tap **Export to Pad** at the bottom of the screen to open the **Keep or Discard Sample** window.
2. Use the **Track** field to assign the new sample to a track. Select <**none**> if you want to save it to the project without assigning it to a track. You can also tap **Save** at the bottom of the screen to save the sample to the general sample pool.

   Use the **Assign to Pad** field to assign the sample to a pad in the track.

   Use the **Root Note** field to set where the sample's original pitch will be on the keyboard.



   If you recorded a sample while a sequence was playing, the **Keep or Discard Sample** window will show a few more options after you select a pad:

   Check the **Add Event** box to automatically add the sample to the currently playing sequence.

   Use the **At** field to select where you want the event to start:

   - **Start**: The sample will be a note event at the start of the currently playing sequence.
   - **Trigger**: The sample will be a note event where you began recording it in the currently playing sequence.

3. Tap **Keep** at the bottom of the screen to confirm your selections.

   Tap **Discard** at the bottom of the screen to discard the recording and return to the Sampler.

   Tap **Play** at the bottom of the screen to play the recording.

   Tap **Edit** to save the sample and open ***Sample Edit Mode*** to edit your recorded sample.

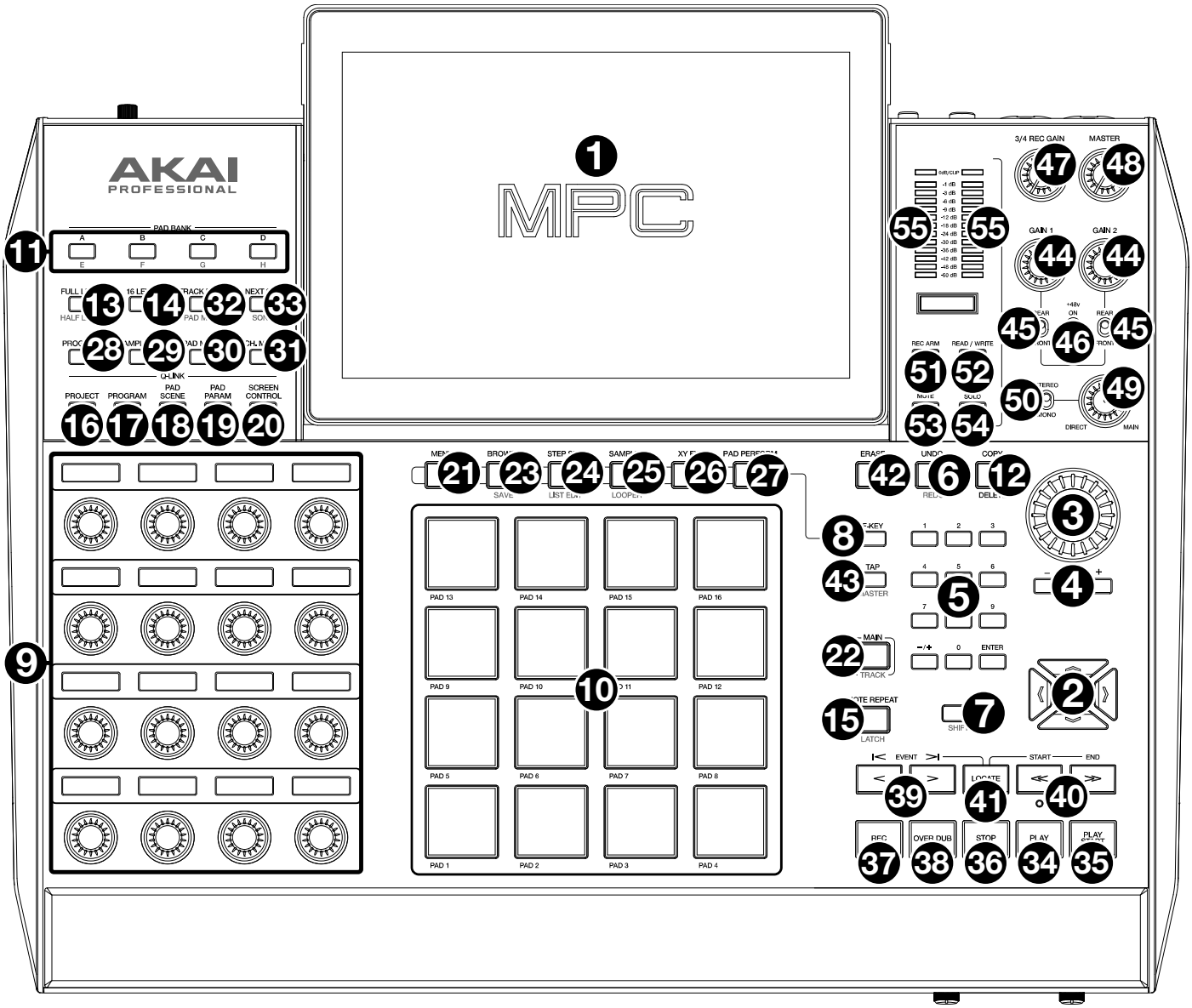
Hardware Features

This chapter explains the features and functions of each MPC v3.6-supported model: ***MPC X / MPC X Special Edition***, ***MPC Live***, ***MPC Live II***, ***MPC One / MPC One+, MPC Key 61***, and ***MPC Key 37***.

MPC X / MPC X Special Edition

Note: Mentions of the features and functions of MPC X hardware throughout this guide also apply to the MPC X Special Edition unless otherwise noted.

Top Panel



Navigation & Data Entry Controls

1. **Touchscreen**: This full-color multi-touch display shows information relevant to MPC X's current operation. Touch the touchscreen (and use the hardware controls) to control the MPC interface.

   Tip: If you adjust the angle of the touchscreen, use the stand on its back panel to secure it in place.

2. **Cursors**: Press these buttons to navigate through the fields of menus and options shown on the screen.

   Press and hold **Shift** and press these buttons to zoom in or out of the ***Grid View*** or Audio Edit Mode. Press and hold **Shift** and press the **up** and **down cursors** simultaneously or the **left** and **right cursors** simultaneously to return to the default zoom setting.

3. **Data Dial**: Use this dial to scroll through the available menu options or adjust the parameter values of the selected field on the screen.

4. **–/+**: Press these buttons to increase or decrease the value of the selected field on the screen.

5. **Numeric Keypad**: If the selected field on the screen is a number, press these numbered buttons as you would on a standard numeric keypad to enter a value. Press the keypad's **Enter** to enter it. (A numeric keypad with additional operations will appear on the screen, as well.)

6. **Undo**/**Redo**: Press this button to undo your last action.

   Press and hold **Shift** and press this button to redo the last action you undid.

7. **Shift**: Press and hold this button to access some buttons' secondary functions (indicated by **red** writing).

   Double-press this button to see which buttons have secondary functions—the buttons will flash for a few seconds.

8. **F-Key**: Press this button to activate or deactivate the F-Key feature. When active, the six buttons under the touchscreen correspond to the options shown at the bottom edge of the screen. The F-Key button and those six buttons will be lit **red** when active. When inactive, the six buttons under the touchscreen will access their normal modes instead (**Menu**, **Browser**, **Step Seq**, **Sampler**, **XYFX**, and **Looper**).

Pad & Q-Link Controls

9. **Q-Link Knobs**: Turn these touch-sensitive knobs to adjust various parameters and settings. The display strip above each knob indicates the parameter it is controlling. If the display strip shows a meter to indicate its value, you can touch or turn its Q-Link knob to temporarily show its precise numerical value.

10. **Pads**: Press these pads to trigger drum hits or other samples in your software. The pads are velocity-sensitive and pressure-sensitive, which makes them very responsive and intuitive to play. The pads will light up different colors, depending on how hard you play them (ranging from yellow at a low velocity to red at the highest velocity). You can also customize their colors.

11. **Pad Bank**: Press these buttons to access Pad Banks A–D.

    Press and hold **Shift** while pressing these buttons to access Pad Banks E–H. Alternatively, double-press one of these buttons.

12. **Copy**/**Delete**: Press this button to copy one pad to another. When the **From Pad** field is selected, press the "source" pad (the pad you want to copy). When the **To Pad** graphic (of all pads) is selected, press the "destination" pad. You can select multiple destination pads, and you can select pads in different pad banks. Tap **Do It** to continue or **Close** to return to the previous screen.

    Tip: **To quickly copy a pad**, press and hold **Copy**, press the source pad, press the destination pad, and then release **Copy**.

    Press and hold **Shift** and press this button to delete a pad's sample assignment. When the **Delete Pad** window is shown, press any pad/pads whose sample assignments you want to clear. Tap **Delete** to continue or **Cancel** to return to the previous screen.

13. **Full Level**/**Half Level**: Press this button to activate or deactivate the Full Level feature. When activated, the pads will always trigger their samples at the maximum velocity (**127**), regardless of how much force you use.

    Press and hold **Shift** and then press this button to activate or deactivate the Half Level feature. When activated, the pads will always trigger their samples at half-velocity (**64**).

    Press and hold this button to set a custom user level velocity that can be used in place of Half Level.

14. **16 Level / Pad Perform**: Press this button to activate/deactivate 16 Level. When activated, the last pad that was hit will be temporarily copied to all 16 pads. The pads will now output the same note number as the initial pad, but a selectable parameter will be fixed at values that increase as the pad numbers increase (e.g., Pad 1 is the minimum, Pad 16 is the maximum), regardless of how hard you press them. In the screen that appears, use the **Type** selector to choose the parameter: **Velocity**, **Tune**, **Filter**, **Layer**, **Attack** or **Decay**. See ***Operation*** > ***General Features*** > ***16 Level*** to learn more.

    Press and hold **Shift** and press this button to enter Pad Perform mode for the pads. When activated, you can play musical scales/modes, chords or progressions using the pads while in any mode. See ***Operation > General Features > Pad Perform*** to learn more.

15. **Note Repeat/Latch**: Press and hold this button, and then press a pad to trigger that pad's sample repeatedly. The rate is based on the current tempo and Timing Correct settings.

    Press and hold **Shift** and then press this button to "latch" the Note Repeat feature. When latched, you do not have to hold the Note Repeat button for it to be activated. Press **Note Repeat** once more to unlatch it.

16. **Project**: Press this button to use the Q-Link knobs to adjust parameters related to the current project. Press and hold **Shift** and then press this button to enter the Project Q-Link Edit Mode directly.

17. **Program**: Press this button to use the Q-Link knobs to adjust parameters of the currently selected track or audio track. Press and hold **Shift** and then press this button to enter the Track Q-Link Edit Mode directly.

18. **Pad Scene**: Press this button to use the Q-Link knobs to adjust parameters that you have assigned for the currently selected pad. Press and hold **Shift** and then press this button to enter the Pad Scene Q-Link Edit Mode directly.

19. **Pad Param**: Press this button to use the Q-Link knobs to adjust one parameter across all 16 pads. Each Q-Link knob corresponds to the pad with the same number and position in the 4-by-4 layout. Press and hold **Shift** and then press this button to enter the Pad Param Q-Link Edit Mode directly.

20. **Screen Control/Edit**: Press this button to use the Q-Link knobs to adjust parameters in the currently selected mode as shown on the screen.

    Press and hold **Shift** and then press this button to enter Q-Link Edit Mode where you can assign other parameters to the Q-Link knobs.

Note: See ***Operation*** > ***Modes*** > ***Q-Link Edit*** > ***Q-Links*** to learn about the different Q-Link modes.

Mode & View Controls

Note: See ***Operation*** > ***Modes*** to learn about the different modes you can access with these controls.

21. **Menu**: Press this button to open the Menu. You can tap an option in the Menu to enter that mode, view, etc.

22. **Main/Track**: Press this button to enter Main Mode.

    Press and hold **Shift** and then press this button to enter the Track View.

23. **Browse/Save**: Press this button to view the Browser. The Browser lets you navigate your computer's internal and external hard disks to load samples, sequences, songs, etc. Using filter buttons and user-definable folders, you can easily adapt it to your workflow. You can also preview samples before loading them.

    Press and hold **Shift** and press this button to save the current project (including its samples, tracks, sequences, and songs).

24. **Step Seq/List Edit**: Press this button to view the Step Sequencer where you can create or edit sequences by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.

    Press and hold **Shift** and press this button to view your sequences using the List Edit View instead of the Grid View.

25. **Sampler/Looper**: Press this button to view the Sampler where you can record audio samples to use in your projects.

    Press and hold **Shift** and press this button to view the Looper where you can record and overdub audio in real time—a great tool for live performance as well as spontaneous moments in the studio. You can export the loop as a sample to use in your project.

26. **XYFX**: Press this button to view XYFX Mode, which turns the touchscreen into an XY pad where each axis represents the range of an effect parameter. As you move touch or move your finger on the screen, the current position will determine the current value of the two parameters. You can use this mode to create interesting effect automation on your tracks.

27. **Pad Perform**: Press this button to view Pad Perform Mode where you can assign musical scales/modes, chords, or progressions to the pads for creative performance options.
28. **Prog Edit**: Press this button to view Track Edit Mode, which contains all parameters for editing your tracks.
29. **Sample Edit**: Press this button to view Sample Edit Mode where you can edit your samples using various functions and processes.
30. **Pad Mixer**: Press this button to view the Pad Mixer where you can set a track's levels, stereo panning, routing, and effects.
31. **Ch. Mixer**: Press this button to view the Channel Mixer where you can set levels, stereo panning, and other settings for your tracks, returns, submixes and main outputs.
32. **Track Mute**/**Pad Mute**: Press this button to view Track Mute Mode where you can easily mute tracks within a sequence or set mute groups for each track.

    Press and hold **Shift** and press this button to view Pad Mute Mode where you can easily mute pads within a track or set mute groups for each pad within a track.
33. **Next Seq**/**Song**: Press this button to view Next Sequence Mode where you can trigger different sequences simply by playing the pads. This is useful for live performances, letting you change a song's structure in real time.

    Press and hold **Shift** and press this button to view Song Mode where you can arrange sequences in a specific order and/or repetition to create songs. You can edit the structure of a song during playback for easy, on-the-fly composing.

Transport & Recording Controls

34. **Play**: Press this button to play the sequence from the audio pointer's current position.
35. **Play Start**: Press this button to play the sequence from its start point.
36. **Stop**: Press this button to stop playback. You can double-press this button to silence audio that is still sounding once a note stops playing. Quickly pressing this button three times will function as a "MIDI panic" and shut off all voices and stop all audio processing.
37. **Rec**: Press this button to record-arm the sequence. Press **Play** or **Play Start** to start recording. Recording in this way (as opposed to using **Overdub**) erases the events of the current sequence. After the sequence plays through once while recording, Overdub will be enabled.
38. **Overdub**: Press this button to enable Overdub. When enabled, you can record events in a sequence without overwriting any previously recorded events. You can enable Overdub before or during recording.
39. **</>** (**Event |</>|**): Use these buttons to move the audio pointer left or right, one step at a time.

    Press and hold **Locate** and press one of these buttons to move the audio pointer to the previous/next event in the sequence grid.
40. **<</>>** (**Start**/**End**): Use these buttons to move the audio pointer left or right, one bar at a time.

    Press and hold **Locate** and press one of these buttons to move the audio pointer to the start or end of the sequence grid.
41. **Locate**: Press and hold this button to activate the secondary functions of the **</>** and **<</>>** buttons (i.e., **Event |</>|** and **Start**/**End**, respectively).
42. **Erase**: As a sequence is playing, press and hold this button and then press a pad to delete the note event for that pad at the current playback position. This is a quick way to delete note events from your sequence without having to stop playback. See ***Operation*** > ***General Features*** > ***Erase*** to learn more.
43. **Tap**/**Master (Global)**: Press this button in time with the desired tempo to enter a new tempo (in BPM). You can set how many taps are required in the Preferences (see ***Operation*** > ***General Features*** > ***Menu*** > ***Preferences*** to learn how to do this).

    Press and hold **Shift** and press this button to set whether the currently selected sequence follows its own tempo (the button will be lit **red**) or a global tempo (the button will be lit **amber**).

I/O & Level Controls

44. **Gain 1/2**: Use these knobs to adjust the gain of the incoming signal from **Input 1/2** on the rear panel or **Inst 1/2** on the front panel. Use the **Rear/Front** switches below the knobs to determine the input. Use the **level meter** to check the recording level. Be careful when setting this knob at higher levels, which can cause the signal to distort.
45. **Rear/Front**: Use each switch to set whether the **Gain 1/2** knob above it will control the gain of the input signal on the rear panel (**Input 1/2**) or on the front panel (**Inst 1/2**).
46. **Phantom Power** (**+48V**): This switch activates and deactivates phantom power for **Input 1/2**. When activated, +48V of phantom power will be supplied to both inputs. Note that most dynamic microphones do **not** require phantom power, while most condenser microphones **do**. Refer to your microphone's documentation to check if it needs phantom power.
47. **3/4 Rec Gain**: Use this knob to adjust the gain of the incoming signal from **Input 3/4** on the rear panel. Use the **level meter** to check the recording level. Be careful when setting this knob at higher levels, which can cause the signal to distort.
48. **Master (Main)**: Turn this knob to adjust the volume level of the **Main L/R outputs**.
49. **Direct/Main**: Turn this knob to adjust the balance between the input and output signals in the headphones.

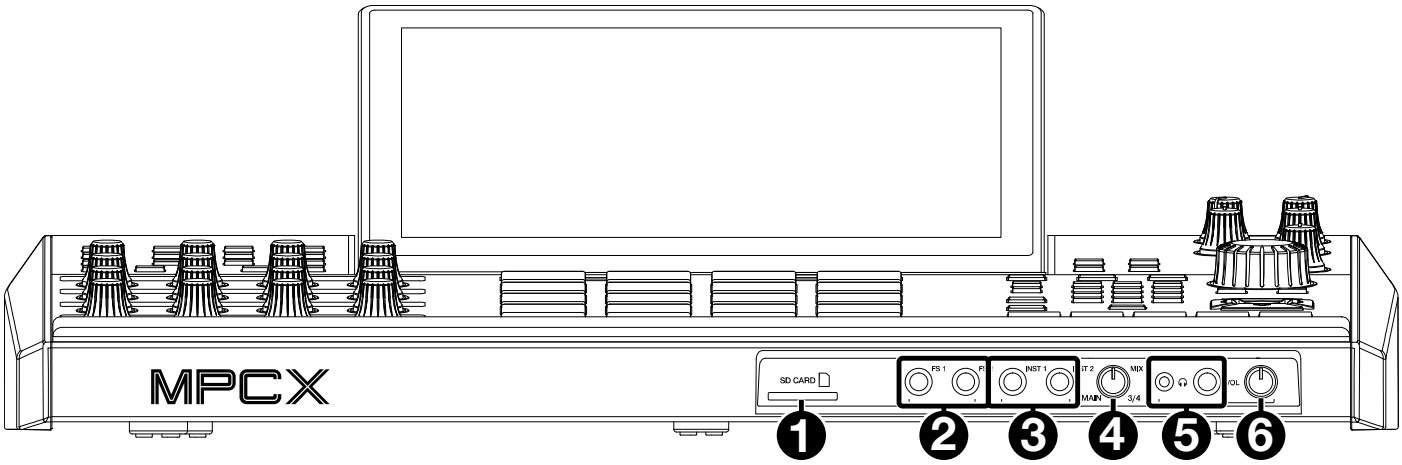
    Direct corresponds to the input signal—all devices connected to the inputs on the front and rear panels. While recording, you can turn this knob all the way to **Direct** for zero-latency direct monitoring.

    Main corresponds to the output signal—the signal sent from the Main L/R outputs on the rear panel. When you are **not** recording, we recommend turning this knob all the way to the **Main** position to hear the full-volume playback signal.
50. **Stereo/Mono**: Use this switch to set whether the signal in the headphones is binaural (**Stereo**) or monaural (**Mono**). When set to **Stereo**, the headphone signal will be split so that the input signal (**Direct**) is heard in the left ear while the output signal (**Main**) is heard in the right ear. When set to **Mono**, the input and output signals are blended into a single, summed mix, which is heard in both ears.
51. **Rec Arm**: Press this button to arm or disarm recording for the currently selected audio track, shown in the display strip below the **level meters**.
52. **Read/Write**: Press this button to toggle the automation state for the current track between **Read** (green R) and **Write** (red W). The display strip below the **level meters** must show a track.

    Press and hold **Shift** and press this button to turn off global automation.
53. **Mute**: Press this button to mute the track or main output shown in the display strip below the **level meters**.
54. **Solo**: Press this button to solo the currently selected track shown in the display strip below the **level meters**.
55. **Level Meters**: These meters indicate the level of the audio signal shown in the display strip below them.

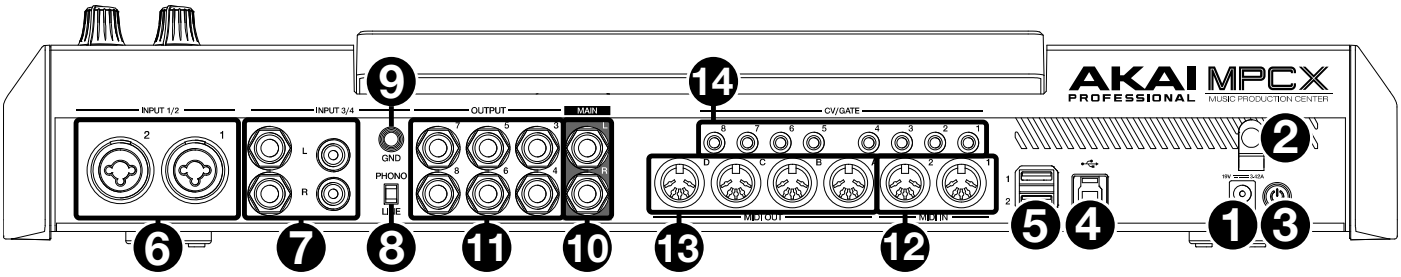
Note: See ***Operation*** > ***General Features*** > ***Menu*** > ***Preferences*** to learn how to set what is shown in the level meters.

Front Panel



1. **SD Card Slot**: Insert a standard SD/SDHC card into this slot to access its files directly using MPC X.
2. **Footswitch Inputs** (**FS 1**/**2**) (1/4” / 6.35 mm): Connect optional 1/4” (6.35 mm) TS footswitches to these inputs.
3. **Instrument Inputs** (**Inst 1**/**2**) (1/4” / 6.35 mm): Use standard 1/4” (6.35 mm) TS cables to connect these inputs to audio sources (guitars, bass, etc.). To use each of these inputs, set the corresponding **Rear**/**Front** switch (below the **Gain 1**/**2** knob on the top panel) to **Front**.
4. **Mix Knob**: Turn this knob to adjust the balance between the **Main** and **3**/**4** signals in your headphones. **Main** is the signal sent from the **Main L**/**R outputs**. **3**/**4** is the signal sent from the **Outputs 3**/**4**.
5. **Headphone Outputs** (1/8” or 1/4” / 3.5 mm or 6.35 mm): Connect your headphones (not included) to either or both of these standard stereo outputs. Use the **Mix Knob** to determine what signal is heard in the headphones. Turn the **Headphone Volume** knob to set the volume level.
6. **Headphone Volume**: Turn this knob to adjust the volume of the headphone outputs.

Rear Panel



1. **Power Input**: Use the included power adapter to connect MPC X to a power outlet. This must be connected to a power outlet in order for MPC X to power on.
2. **Power Adapter Restraint**: Secure the power adapter cable to this restraint to prevent it from accidentally unplugging.
3. **Power Switch**: Press this button to turn MPC X's power on or off. While powered on, press and hold this button for 5 seconds to force MPC X to power off (similar to a computer).
4. **USB-B Port**: Use the included USB cable to connect this USB 3.0 port to an available USB 3.0 port on your computer. This connection allows MPC X to send/receive MIDI and audio data to/from the MPC software on your computer. It also allows any connected USB drives, SD cards, and drives connected to the internal SATA port to mount on your computer if MPC X is in Controller Mode (i.e., your computer can access these storage devices that are connected to your MPC X).
5. **USB-A Ports**: Connect USB flash drives to these USB ports to access their files directly using MPC X. MPC X supports read and write capability for exFAT, FAT32, NTFS, and EXT4 file systems as well as read-only capability for HFS+ file systems. (We recommend using an exFAT file system as it is the most robust one supported by both Windows and macOS.) These USB ports supply power to connected USB devices and can also be used to receive MIDI messages from external USB MIDI devices.
6. **Inputs 1/2** (XLR or 1/4" / 6.35 mm): Use standard XLR or 1/4" (6.35 mm) TRS cables to connect these inputs to audio sources (microphone, mixer, synthesizer, etc.). To use each of these inputs, set the corresponding **Rear/Front** switch (below the **Gain 1/2** knob on the top panel) to **Rear**. Turn the **Gain 1/2** knobs to set the input level of each one.

   Note: When using the XLR connection, the mic pre-amp is automatically engaged. When using a 1/4" (6.35 mm) TRS cable, the mic pre-amp is bypassed.
7. **Inputs 3/4** (1/4" / 6.35 mm or RCA): Use standard 1/4" (6.35 mm) TRS cables or stereo RCA cables to connect these inputs to audio sources (mixer, turntable, synthesizer, etc.). To use the 1/4" (6.35 mm) inputs, set the **Phono/Line** switch to **Line**. To use the RCA inputs, set the **Phono/Line** switch to **Phono**. Turn the **3/4 Rec Gain** knob to set their input levels.
8. **Phono/Line Switch**: Set this switch to the appropriate position, depending on which **Input 3/4** connectors you want to use. If you are using the 1/4" (6.35 mm) inputs, set this switch to **Line**. If you are using the RCA inputs, set this switch to **Phono** to provide the additional amplification needed for phono-level signals.
9. **Grounding Terminal**: If you are sending a phono-level turntable signal to the **Input 3/4** RCA connectors and are hearing a low hum or buzz, it could mean that the turntable is not grounded. If the turntable has a grounding wire, connect it to this terminal.

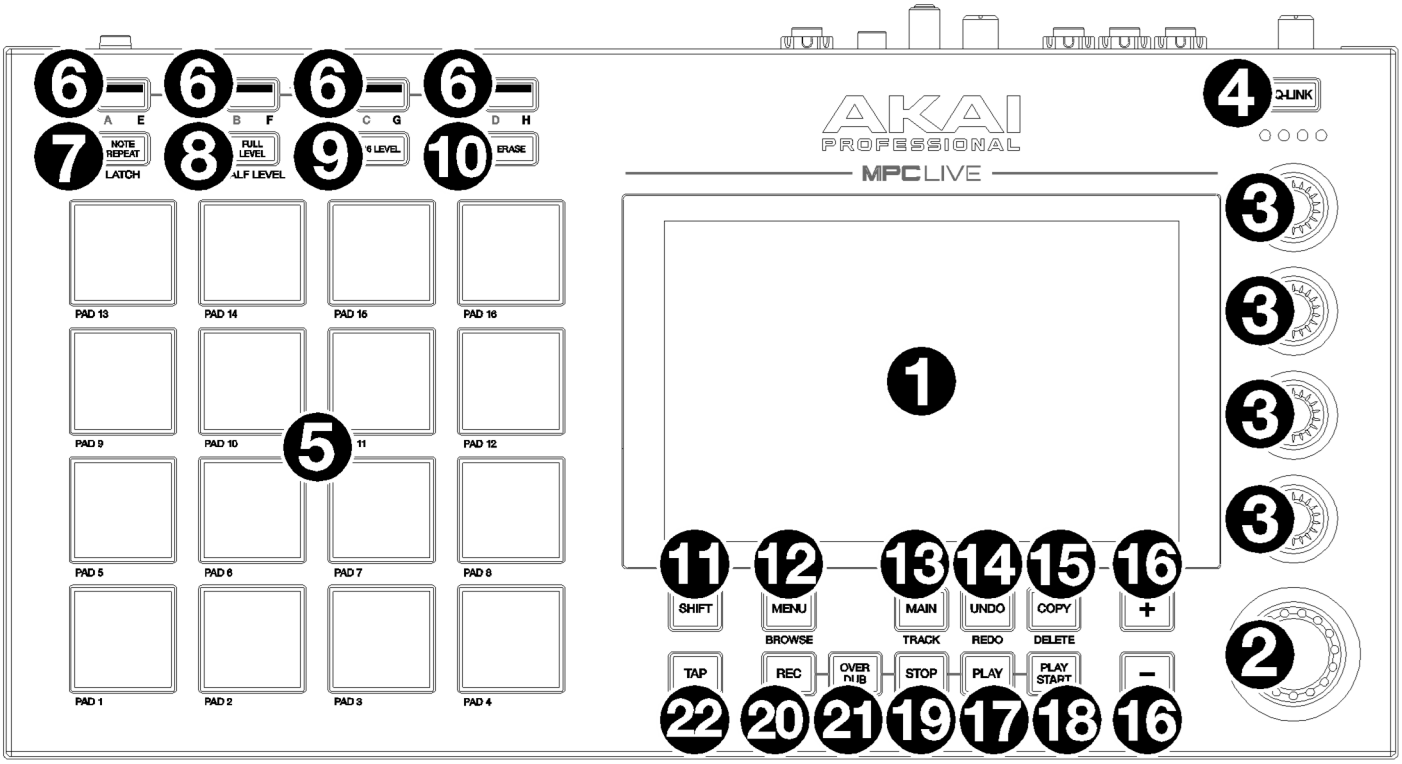
   Note: Some turntables have a grounding wire built into the RCA connection and, therefore, nothing needs to be connected to the grounding terminal.
10. **Main L/R Outputs** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these outputs to your speaker system. The signal sent out of these outputs is the main mix. Turn the **Master** knob to set their volume.

    Tip: To route a track to these outputs, set its routing to **Out 1,2** in the **Channel Mixer** when the **Mixer** field is set to **Tracks**. See ***Operation > Modes > Channel Mixer*** to learn more about this.
11. **Outputs 3/4, 5/6, 7/8** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these outputs to an external mixer. The signal sent from these outputs is full-volume (**0 dB**).

    Tip: To route a track to these outputs, set its routing to **Out 1,2**, **Out 5,6**, or **Out 7,8** (respectively) in the **Channel Mixer** when the **Mixer** field is set to **Tracks**. See ***Operation > Modes > Channel Mixer*** to learn more about this.
12. **MIDI In**: Use standard 5-pin MIDI cables to connect these inputs to the MIDI outputs of optional external MIDI devices.
13. **MIDI Out**: Use standard 5-pin MIDI cables to connect these outputs to the MIDI inputs of optional external MIDI devices.
14. **CV/Gate Out**: Use standard 1/8" (3.5 mm) TS cables to connect these outputs to optional external sequencers. MPC X will send control voltage (CV) and/or Gate data over this connection.

MPC Live

Top Panel



1. **Touchscreen**: This full-color multi-touch display shows information relevant to MPC Live's current operation. Touch the touchscreen (and use the hardware controls) to control the MPC interface.
2. **Data Dial**: Use this dial to scroll through the available menu options or adjust the parameter values of the selected field on the screen. Pressing the dial also functions as an **Enter** button.
3. **Q-Link Knobs**: Use these touch-sensitive knobs to adjust various parameters and settings. The knobs can control one group of parameters at a time. The lights below the Q-Link button indicate the currently selected column of Q-Link knobs. Press the **Q-Link** button to change which parameter or group of parameters they currently control.
4. **Q-Link Button**: Press this button to change which parameter or group of parameters the **Q-Link knobs** currently control (indicated by the lights above the Q-Link knobs). Each press will select the next column of Q-Link knobs.

   Press and hold **Shift** and then press this button to select the previous column of Q-Link knobs instead.

   Press and hold this button to show the **QLink** window over the touchscreen's current contents. These are the same parameters and settings as what is shown in Q-Link Edit Mode. You can tap **Q-Link Edit** at the bottom of the window to enter Q-Link Edit Mode immediately (see ***Operation*** > ***Modes*** > ***Q-Link Edit Mode*** to learn about this).
5. **Pads**: Press these pads to trigger drum hits or other samples in your software. The pads are velocity-sensitive and pressure-sensitive, which makes them very responsive and intuitive to play. The pads will light up different colors, depending on how hard you play them (ranging from yellow at a low velocity to red at the highest velocity). You can also customize their colors.
6. **Pad Bank**: Press any of these buttons to access Pad Banks A–D.

   Press and hold **Shift** while pressing any of these buttons to access Pad Banks E–H. Alternatively, double-press one of these buttons.
7. **Note Repeat/Latch**: Press and hold this button, and then press a pad to trigger that pad's sample repeatedly. The rate is based on the current tempo and Timing Correct settings.

   Press and hold **Shift** and then press this button to "latch" the Note Repeat feature. When latched, you do not have to hold the Note Repeat button for it to be activated. Press **Note Repeat** once more to unlatch it.

8. **Full Level**/**Half Level**: Press this button to activate or deactivate the Full Level feature. When activated, the pads will always trigger their samples at the maximum velocity (**127**), regardless of how much force you use.

   Press and hold **Shift** and then press this button to activate or deactivate the Half Level feature. When activated, the pads will always trigger their samples at half-velocity (**64**).

   Press and hold this button to set a custom user level velocity that can be used in place of Half Level.

9. **16 Level / Pad Perform**: Press this button to activate/deactivate 16 Level. When activated, the last pad that was hit will be temporarily copied to all 16 pads. The pads will now output the same note number as the initial pad, but a selectable parameter will be fixed at values that increase as the pad numbers increase (e.g., Pad 1 is the minimum, Pad 16 is the maximum), regardless of how hard you press them. In the screen that appears, use the **Type** selector to choose the parameter: **Velocity**, **Tune**, **Filter**, **Layer**, **Attack** or **Decay**. See ***Operation*** > ***General Features*** > ***16 Level*** to learn more.

   Press and hold **Shift** and press this button to enter Pad Perform mode for the pads. When activated, you can play musical scales/modes, chords or progressions using the pads while in any mode. See ***Operation*** > ***General Features*** > ***Pad Perform*** to learn more.

10. **Erase**: As a sequence is playing, press and hold this button and then press a pad to delete the note event for that pad at the current playback position. This is a quick way to delete note events from your sequence without having to stop playback. See ***Operation*** > ***General Features*** > ***Erase*** to learn more.

11. **Shift**: Press and hold this button to access some buttons' secondary functions (indicated by **gray** writing).

    Double-press this button to see which buttons have secondary functions—the buttons will flash for a few seconds.

12. **Menu**/**Browse**: Press this button to open the ***Menu***. You can tap an option in the Menu to enter that mode, view, etc.

    Press and hold **Shift** and then press this button to view the Browser. You can use the Browser to locate and select tracks, samples, sequences, etc.

13. **Main**/**Track**: Press this button to enter ***Main Mode***.

    Press and hold **Shift** and then press this button to enter the ***Track View***.

14. **Undo**/**Redo**: Press this button to undo your last action.

    Press and hold **Shift** and press this button to redo the last action you undid.

15. **Copy**/**Delete**: Press this button to copy one pad to another. When the **From Pad** field is selected, press the "source" pad (the pad you want to copy). When the **To Pad** graphic (of all pads) is selected, press the "destination" pad. You can select multiple destination pads, and you can select pads in different pad banks. Tap **Do It** to continue or **Close** to return to the previous screen.

    Tip: **To quickly copy a pad**, press and hold **Copy**, press the source pad, press the destination pad, and then release **Copy**.

    Press and hold **Shift** and press this button to delete a pad's sample assignment. When the **Delete Pad** window is shown, press any pad/pads whose sample assignments you want to clear. Tap **Delete** to continue or **Cancel** to return to the previous screen.

16. **–**/**+**: Press these buttons to increase or decrease the value of the selected field on the screen.

17. **Play**: Press this button to play the sequence from the audio pointer's current position.

18. **Play Start**: Press this button to play the sequence from its start point.

19. **Stop**: Press this button to stop playback. You can double-press this button to silence audio that is still sounding once a note stops playing. Quickly pressing this button three times will function as a "MIDI panic" and shut off all voices and stop all audio processing.

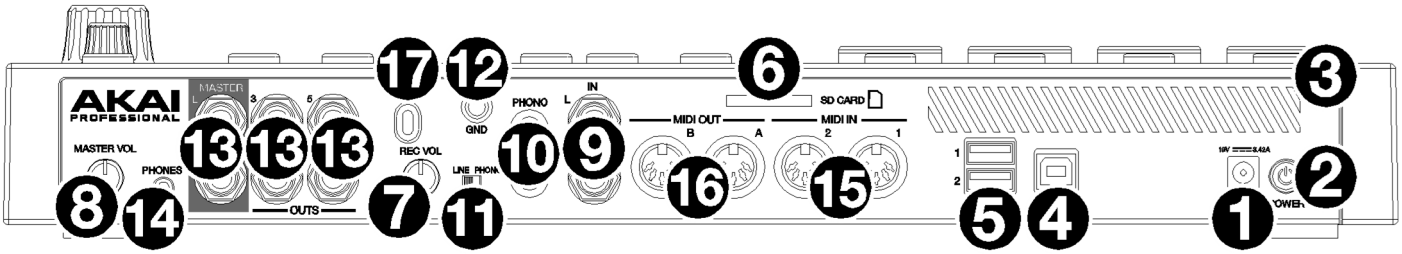
20. **Rec**: Press this button to record-arm the sequence. Press **Play** or **Play Start** to start recording. Recording in this way (as opposed to using **Overdub**) erases the events of the current sequence. After the sequence plays through once while recording, Overdub will be enabled.

21. **Overdub**: Press this button to enable Overdub. When enabled, you can record events in a sequence without overwriting any previously recorded events. You can enable Overdub before or during recording.

22. **Tap**/**Master**: Press this button in time with the desired tempo to enter a new tempo (in BPM). You can set how many taps are required in the Preferences (see ***Operation*** > ***General Features*** > ***Menu*** > ***Preferences*** to learn how to do this).

    Press and hold **Shift** and press this button to set whether the currently selected sequence follows its own tempo (the button will be lit **red**) or a global tempo (the button will be lit **amber**).

Rear Panel



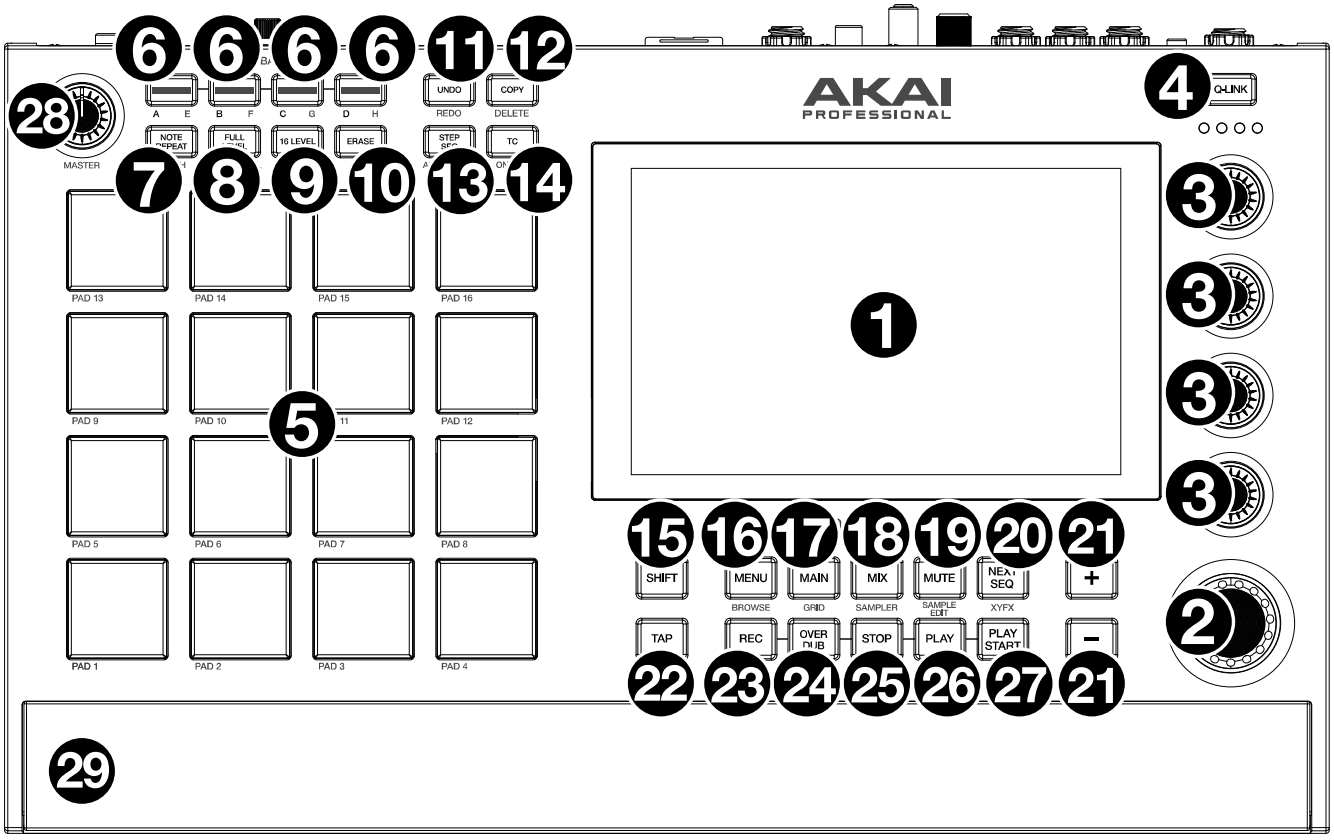
1. **Power Input**: Use the included power adapter to connect MPC Live to a power outlet.
2. **Power Switch**: Turns MPC Live's power on/off.
3. **Charging Indicator**: This light (behind the vent) will turn on when MPC Live's internal battery is charging (when the power input is connected to a power outlet). When the battery is fully charged or when it is disconnected from a power outlet, then this light will turn off.
4. **USB-B Port**: Use the included USB cable to connect this USB 3.0 port to an available USB 3.0 port on your computer. This connection allows MPC Live to send/receive MIDI and audio data to/from the MPC software on your computer. It also allows any connected USB drives, SD cards, and drives connected to the internal SATA port to mount on your computer if MPC Live is in Controller Mode (i.e., your computer can access these storage devices that are connected to your MPC Live).
5. **USB-A Ports**: Connect USB flash drives to these USB ports to access their files directly using MPC Live. MPC Live supports read and write capability for exFAT, FAT32, NTFS, and EXT4 file systems as well as read-only capability for HFS+ file systems. (We recommend using an exFAT file system as it is the most robust one supported by both Windows and macOS.) These USB ports supply power to connected USB devices and can also be used to receive MIDI messages from external USB MIDI devices.
6. **SD Card Slot**: Insert a standard SD/SDHC card into this slot to access its files directly using MPC Live.
7. **Rec Vol**: Turn this knob to adjust the gain of the incoming signal from the 1/4" (6.35 mm) and RCA **inputs**. Be careful when setting this knob at higher levels, which can cause the signal to distort.
8. **Master Vol**: Turn this knob to adjust the volume of **Output 1/2** and the **phones output**.
9. **Inputs** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these inputs to audio sources (microphone, mixer, synthesizer, etc.). To use these inputs, set the **Line/Phono switch** to **Line**. Turn the **Rec Vol** knob to set their input levels.
10. **Inputs** (RCA): Use a standard RCA stereo cable to connect these inputs to a phono-level audio source like a turntable. To use these inputs, set the **Line/Phono switch** to **Phono**. Turn the **Rec Vol** knob to set their input levels.
11. **Line/Phono Switch**: Set this switch to the appropriate position, depending on which inputs you want to use. If you are using the RCA inputs, set this switch to **Phono** to provide the additional amplification needed for phono-level signals. If you are using the 1/4" (6.35 mm) inputs, such as a keyboard or a sampler, set this switch to **Line**.
12. **Grounding Terminal**: If using phono-level turntables with a grounding wire, connect the grounding wire to these terminals. If you experience a low "hum" or "buzz," this could mean that your turntables are not grounded.

    Note: Some turntables have a grounding wire built into the RCA connection and, therefore, nothing needs to be connected to the grounding terminal.
13. **Outputs** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these outputs to your speaker system, external mixer, etc. The signal sent out of the **Master L/R** outputs is the main mix. Turn the **Master Vol** knob to set their volume. The signals sent from Outputs 3–6 are full-volume (**0 dB**).

    Tip: To route a track to these outputs, set its routing to **Out 1,2**, **Out 3,4**, or **Out 5,6** (respectively) in the **Channel Mixer** when the **Mixer** field is set to **Tracks**. See ***Operation > Modes > Channel Mixer*** to learn more about this.
14. **Phones** (1/8" / 3.5 mm): Connect standard 1/8" (3.5 mm) stereo headphones to this output. Turn the **Master Vol** knob to set the volume level.
15. **MIDI In**: Use standard 5-pin MIDI cables to connect these inputs to the MIDI outputs of optional external MIDI devices.
16. **MIDI Out**: Use standard 5-pin MIDI cables to connect these outputs to the MIDI inputs of optional external MIDI devices.
17. **Kensington® Lock Slot**: You can use this slot to secure your MPC Live to a table or other surface.

MPC Live II

Top Panel



1. **Touchscreen**: This full-color multi-touch display shows information relevant to MPC Live II's current operation. Touch the display (and use the hardware controls) to control the MPC interface.
2. **Data Dial**: Use this dial to scroll through the available menu options or adjust the parameter values of the selected field in the **display**. Pressing the dial also functions as an **Enter** button.
3. **Q-Link Knobs**: Use these touch-sensitive knobs to adjust various parameters and settings. The knobs can control one column of parameters at a time. The lights above the Q-Link Knobs indicate the currently selected column. Press the **Q-Link** button above them to change which column of parameters they currently control.
4. **Q-Link Button**: Press this button to change which column of parameters the **Q-Link Knobs** currently control (indicated by the lights above the Q-Link Knobs). Each press will select the next column.

   Press and hold **Shift** and then press this button to select the previous column instead.

   Press and hold this button to show the **QLink** window over the touchscreen's current contents. These are the same parameters and settings as what is shown in Q-Link Edit Mode. You can tap **Q-Link Edit** at the bottom of the window to enter Q-Link Edit Mode immediately (see ***Operation*** > ***Modes*** > ***Q-Link Edit Mode*** to learn about this).
5. **Pads**: Use these pads to trigger drum hits or other samples. The pads are velocity-sensitive and pressure-sensitive, which makes them very responsive and intuitive to play. The pads will light up different colors, depending on how hard you play them (ranging from yellow at a low velocity to red at the highest velocity). You can also customize their colors.
6. **Pad Bank Buttons**: Press any of these buttons to access Pad Banks A–D. Press and hold **Shift** while pressing any of these buttons to access Pad Banks E–H. Alternatively, double-press one of these buttons.
7. **Note Repeat** / **Latch**: Press and hold this button, and then press a pad to trigger that pad's sample repeatedly. The rate is based on the current tempo and Timing Correct settings.

   Press and hold **Shift** and then press this button to "latch" the Note Repeat feature. When latched, you do not have to hold the Note Repeat button for it to be activated. Press **Note Repeat** once more to unlatch it.
8. **Full Level** / **Half Level**: Press this button to activate/deactivate Full Level. When activated, the pads will always trigger their samples at the maximum velocity (**127**), regardless of the amount of force you use.

   Press and hold **Shift** and then press this button to activate/deactivate Half Level. When activated, the pads will always trigger their samples at half-velocity (**64**).

   Press and hold this button to set a custom user level velocity that can be used in place of Half Level.

9. **16 Level / Pad Perform**: Press this button to activate/deactivate 16 Level. When activated, the last pad that was hit will be temporarily copied to all 16 pads. The pads will now output the same note number as the initial pad, but a selectable parameter will be fixed at values that increase as the pad numbers increase (e.g., Pad 1 is the minimum, Pad 16 is the maximum), regardless of how hard you press them. In the screen that appears, use the **Type** selector to choose the parameter: **Velocity**, **Tune**, **Filter**, **Layer**, **Attack** or **Decay**. See ***Operation*** > ***General Features*** > ***16 Level*** to learn more.

   Press and hold **Shift** and press this button to activate/deactivate Pad Perform mode for the pads. When activated, you can play musical scales/modes, chords or progressions using the pads while in any mode. Use the ***Pad Perform*** window to configure the settings for the pads.

10. **Erase**: As a Sequence is playing, press and hold this button and then press a pad to delete the note event for that pad at the current playback position. This is a quick way to delete note events from your sequence without having to stop playback. When playback is stopped, press this button to open the Erase window where notes, automation and other sequence data can be erased from the sequence. See ***Operation*** > ***General Features*** > ***Erase*** to learn more.

11. **Undo** / **Redo**: Press this button to undo your last action. Hold down **Shift** and press this button to redo the last action you undid.

12. **Copy** / **Delete**: Press this button to copy one pad to another. When the **From Pad** field is selected, press the "source" pad (the pad you want to copy). When the **To Pad** graphic (of all pads) is selected, press the "destination" pad. You can select multiple destination pads, and you can select pads in different pad banks. Tap **Do It** to continue or **Cancel** to return to the previous screen.

    Press and hold **Shift** and press this button to delete.

13. **Step Seq/Automation:** Press this button to view ***Step Sequencer*** mode where you can create or edit sequences by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.

    Press and hold **Shift** and press this button to toggle the Global Automation state between **Read** and **Write**.

14. **TC** / **On/Off:** Press this button to open the ***Timing Correct (TC)*** window, which contains various settings to help quantize the events in your sequence.

    Press and hold **Shift** and press this button to turn Timing Correct on and off.

15. **Shift**: Press and hold this button to access some buttons' secondary functions (indicated by gray writing).

    Double-press this button to see which buttons have secondary functions—the buttons will flash for a few seconds.

16. **Menu** / **Browse**: Press this button to open the mode ***Menu***. You can tap an option on the Menu screen to enter that mode, view, etc.

    Press and hold **Shift** and then press this button to view the ***Browser***. You can use the Browser to locate and select tracks, samples, sequences, etc.

17. **Main** / **Grid**: Press this button to enter ***Main Mode***.

    Press and hold **Shift** and then press this button to enter ***Grid View*** mode.

18. **Mix** / **Sampler:** Press this button to view the last used Mixer Mode, either ***Channel Mixer*** (default) or ***Pad Mixer***. In Channel Mixer Mode, you can set levels, stereo panning, and other settings for your tracks, returns, submixes, and main outputs. In Pad Mixer Mode, you can set a track's levels, stereo panning, routing, and effects. Pressing the button multiple times will toggle between the two Mixer Modes.

    Press and hold **Shift** and then press this button to view the ***Sampler***, where you can record audio samples to use in your projects.

19. **Mute** / **Sample Edit:** Press this button to view the last used Mute Mode, either ***Track Mute*** (default) or ***Pad Mute***. In Track Mute Mode, you can mute tracks within a sequence or set mute groups for each track. In Pad Mute Mode, you can mute pads within a track or set mute groups for each pad within a track. Pressing the button multiple times will toggle between the two Mute Modes.

    Press and hold **Shift** and then press this button to enter ***Sample Edit Mode*** where you can edit your samples using various functions and processes.

20. **Next Seq** / **XYFX**: Press this button to view ***Next Sequence Mode*** where you can trigger different sequences simply by playing the pads. This is useful for live performances, letting you change a song's structure in real time.

    Press and hold **Shift** and press this button to view ***XYFX Mode***, which turns the touchscreen into an XY pad where each axis represents the range of an effect parameter. As you move touch or move your finger on the touchscreen, the current position will determine the current value of the two parameters. You can use this mode to create interesting effect automation on your tracks.

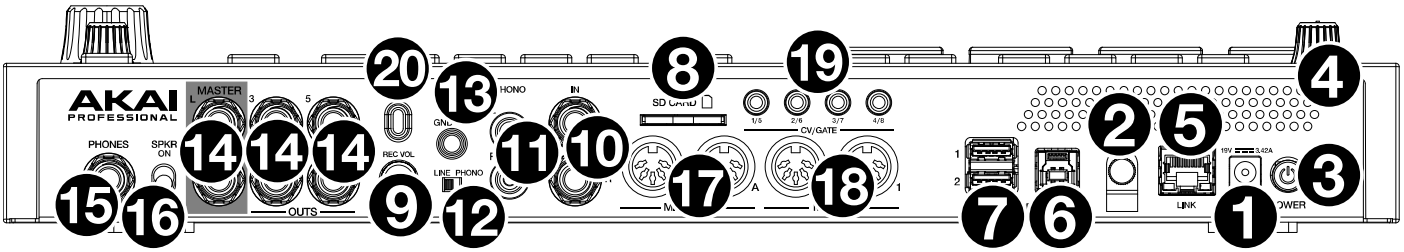
21. **–/+**: Press these buttons to decrease/increase the value of the selected field in the display.

22. **Tap Tempo** / **Master**: Press this button in time with the desired tempo to enter a new tempo (in BPM). You can set how many taps are required in the Preferences (see ***Operation*** > ***General Features*** > ***Menu*** > ***Preferences*** to learn how to do this).

    Press and hold **Shift** and press this button to set whether the currently selected sequence follows its own tempo (the button will be lit **amber**) or a global tempo (the button will be lit **red**).

23. **Rec**: Press this button to record-arm the sequence. Press **Play** or **Play Start** to start recording. Recording in this way (as opposed to using **Overdub**) erases the events of the current sequence. After the sequence plays through once while recording, Overdub will be enabled.
24. **Overdub**: Press this button to enable Overdub. When enabled, you can record events in a Sequence without overwriting any previously recorded events. You can enable Overdub before or during recording.
25. **Stop**: Press this button to stop playback. You can double-press this button to silence audio that is still sounding once a note stops playing. Press and hold **Shift** and press this button to stop playback and return the playhead to 1:1:0.
26. **Play**: Press this button to play the sequence from the playhead's current position.
27. **Play Start**: Press this button to play the sequence from its start point.
28. **Master Vol**: Turn this knob to adjust the volume of the **Master L/R outputs**, **phones output** and **speakers**.
29. **Speakers**: When the **Speaker** switch on the rear panel is set to **On**, these speakers will play the current audio. Use the **Master Volume** knob to control the volume of the speakers.

Rear Panel



1. **Power Input**: Use the included power adapter to connect MPC Live II to a power outlet.
2. **Power Adapter Restraint**: Secure the power adapter cable to this restraint to prevent it from accidentally unplugging.
3. **Power Switch**: Turns MPC Live II's power on/off.
4. **Charging Indicator**: This light (behind the vent) will turn on when MPC Live II's internal battery is charging (when the power input is connected to a power outlet). When the battery is fully charged or when it is disconnected from a power outlet, then this light will turn off.
5. **Link**: Connect a standard Ethernet cable to this port to use Ableton Link and other compatible devices with MPC Live II. See ***Operation*** > ***General Features*** > ***Menu*** > ***Sync*** for more information.

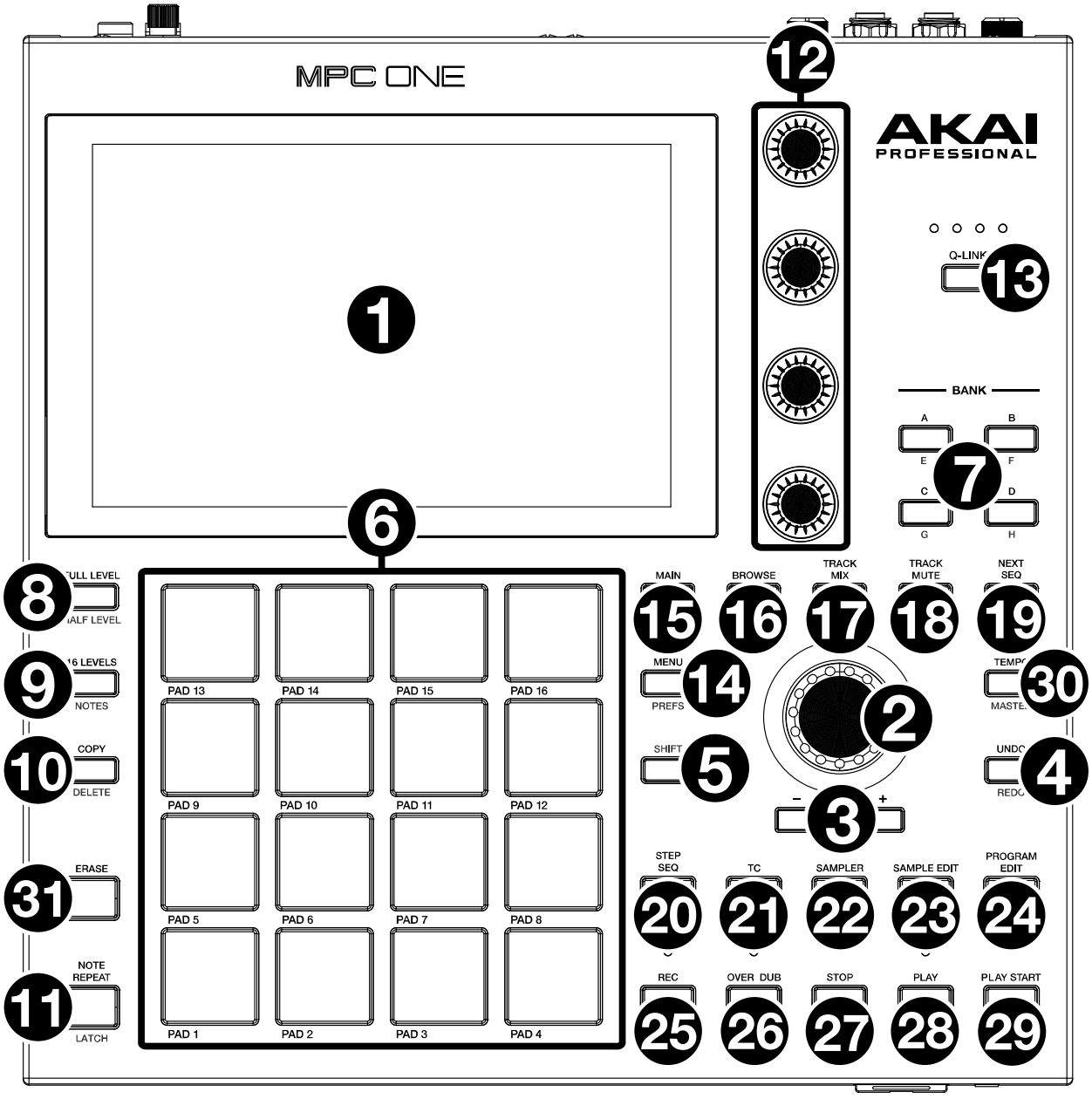
   Note: You can also use Ableton Link wirelessly over a Wi-Fi connection.
6. **USB-B Port**: Use the included USB cable to connect this high-retention-force USB port to an available USB port on your computer. This connection allows MPC Live II to send/receive MIDI and audio data to/from the MPC software on your computer.
7. **USB-A Ports**: Connect USB flash drives to these USB ports to access their files directly using MPC Live II. When connected to a computer in Controller Mode, you can access drives connected to this port from your computer. You can also connect standard MIDI controllers to these ports.
8. **SD Card Slot**: Insert a standard SD, SDHC or SDXC card into this slot to access its files directly using MPC Live II.
9. **Rec Vol**: Turn this knob to adjust the volume of the **inputs**.
10. **Inputs** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these inputs to an audio source (mixer, synthesizer, drum machine, etc.). In Sample Record Mode, you can select whether you want to record either channel or both channels in stereo or in mono. To use these inputs, set the **Line**/**Phono switch** to **Line**.
11. **Inputs** (RCA): Use a standard RCA stereo cable to connect these inputs to a phono-level audio source like a turntable. In Sample Record Mode, you can select whether you want to record either channel or both channels in stereo or in mono. To use these inputs, set the **Line**/**Phono switch** to **Phono**.
12. **Line**/**Phono Switch**: Set this switch to the appropriate position, depending on which inputs you want to use. If you are using the RCA inputs, set this switch to **Phono** to provide the additional amplification needed for phono-level signals. If you are using the 1/4" (6.35 mm) inputs, such as a CD player or sampler, set this switch to **Line**.
13. **Grounding Terminal**: If using phono-level turntables with a grounding wire, connect the grounding wire to these terminals. If you experience a low "hum" or "buzz," this could mean that your turntables are not grounded.

    Note: Some turntables have a grounding wire built into the RCA connection and, therefore, nothing needs to be connected to the grounding terminal.
14. **Outputs** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these outputs to your monitors, mixer, etc.). The **Master L**/**R** outputs are the same as **Outputs 1,2**.
15. **Phones** (1/4" / 6.35 mm): Connect standard 1/4" (6.35 mm) stereo headphones to this output.
16. **Speaker On/Off:** Use this switch to turn the MPC Live II internal speakers on or off.
17. **MIDI In**: Use a standard 5-pin MIDI cable to connect these inputs to the MIDI output of an external MIDI device (synthesizer, drum machine, etc.).
18. **MIDI Out**: Use a standard 5-pin MIDI cable to connect these outputs to the MIDI input of an external MIDI device (synthesizer, drum machine, etc.).
19. **CV**/**Gate Out**: MPC Live II will send control voltage (CV) and/or Gate signals over these outputs to optional external sequencers. Use standard 1/8" (3.5 mm) TS cables to send a single CV/Gate signal per output, or use a stereo TRS-to-dual mono TSF breakout cable (such as a Hosa YMM-261) to send two CV/Gate signals per output.
20. **Kensington® Lock Slot**: You can use this slot to secure your MPC Live II to a table or other surface.

MPC One / MPC One+

Note: Mentions of the features and functions of MPC One hardware throughout this guide also apply to the MPC One+ unless otherwise noted.

Top Panel



Navigation & Data Entry Controls

1. **Touchscreen**: This full-color multi-touch display shows information relevant to MPC One's current operation. Touch the display (and use the hardware controls) to control the MPC interface.
2. **Data Dial**: Use this dial to scroll through the available menu options or adjust the parameter values of the selected field in the **display**. Pressing the dial also functions as an **Enter** button.
3. **–/+**: Press these buttons to increase or decrease the value of the selected field in the display.
4. **Undo** / **Redo**: Press this button to undo your last action.
   Press and hold **Shift** and press this button to redo the last action you undid.
5. **Shift**: Press and hold this button to access some buttons' secondary functions (indicated by **red** writing).

Pad & Q-Link Controls

6. **Pads**: Use these pads to trigger drum hits or other samples. The pads are velocity-sensitive and pressure-sensitive, which makes them very responsive and intuitive to play. The pads will light up different colors, depending on how hard you play them (ranging from yellow at a low velocity to red at the highest velocity). You can also customize their colors.
7. **Pad Bank Buttons**: Press any of these buttons to access Pad Banks A–D. Press and hold **Shift** while pressing any of these buttons to access Pad Banks E–H. Alternatively, double-press one of these buttons.
8. **Full Level** / **Half Level**: Press this button to activate/deactivate Full Level. When activated, the pads will always trigger their samples at the maximum velocity (**127**), regardless of the amount of force you use.

   Press and hold **Shift** and then press this button to activate/deactivate Half Level. When activated, the pads will always trigger their samples at half-velocity (**64**).

   Press and hold this button to set a custom user level velocity that can be used in place of Half Level.
9. **16 Level** / **Pad Perform (Notes)**: Press this button to activate/deactivate 16 Level. When activated, the last pad that was hit will be temporarily copied to all 16 pads. The pads will now output the same note number as the initial pad, but a selectable parameter will be fixed at values that increase as the pad numbers increase (e.g., Pad 1 is the minimum, Pad 16 is the maximum), regardless of how hard you press them. In the screen that appears, use the **Type** selector to choose the parameter: **Velocity**, **Tune**, **Filter**, **Layer**, **Attack** or **Decay**. See ***Operation*** > ***General Features*** > ***16 Level*** to learn more.

   Press and hold **Shift** and press this button to enter Pad Perform (Notes) mode for the pads. When activated, you can play musical scales/modes, chords or progressions using the pads while in any mode. See ***Operation*** > ***General Features*** > ***Pad Perform*** o learn more.
10. **Copy** / **Delete**: Press this button to copy one pad to another. When the **From Pad** field is selected, press the "source" pad (the pad you want to copy). When the **To Pad** graphic (of all pads) is selected, press the "destination" pad. You can select multiple destination pads, and you can select pads in different pad banks. Tap **Do It** to continue or **Cancel** to return to the previous screen.

    Press and hold **Shift** and press this button to delete.
11. **Note Repeat** / **Latch**: Press and hold this button, and then press a pad to trigger that pad's sample repeatedly. The rate is based on the current tempo and Timing Correct settings.

    Press and hold **Shift** and then press this button to "latch" the Note Repeat feature. When latched, you do not have to hold the Note Repeat button for it to be activated. Press **Note Repeat** once more to unlatch it.
12. **Q-Link Knobs**: Use these touch-sensitive knobs to adjust various parameters and settings. The knobs can control one column of parameters at a time. The lights above the Q-Link Knobs indicate the currently selected column. Press the **Q-Link** button to change which column of parameters they currently control.
13. **Q-Link Button**: Press this button to change which column of parameters the **Q-Link Knobs** currently control (indicated by the lights above the Q-Link Knobs). Each press will select the next column.

    Press and hold **Shift** and then press this button to select the previous column instead.

Mode & View Controls

14. **Menu** / **Prefs**: Press this button to open the mode ***Menu***. You can tap an option on the Menu screen to enter that mode, view, etc.

    Press and hold **Shift** and then press this button to open the ***Preferences*** page in the Menu.
15. **Main** / **Grid**: Press this button to enter ***Main Mode***.

    Press and hold **Shift** and then press this button to enter ***Grid View*** mode.
16. **Browse** / **Save**: Press this button to view the ***Browser***. You can use the Browser to locate and select tracks, samples, sequences, etc.

    Press and hold **Shift** and then press this button to save the current project (including its samples, tracks, sequences, and songs).
17. **Track Mix** / **Pad Mix:** Press this button to view the ***Channel Mixer*** where you can set levels, stereo panning, and other settings for your tracks, returns, submixes, and main outputs.

    Press and hold **Shift** and then press this button to view the ***Pad Mixer*** where you can set a track's levels, stereo panning, routing, and effects.

18. **Track Mute** / **Pad Mute**: Press this button to view ***Track Mute Mode*** where you can easily mute tracks within a sequence or set mute groups for each track.

    Press and hold **Shift** and press this button to view ***Pad Mute Mode*** where you can easily mute pads within a track or set mute groups for each pad within a track.

19. **Next Seq** / **XYFX**: Press this button to view ***Next Sequence Mode*** where you can trigger different sequences simply by playing the pads. This is useful for live performances, letting you change a song's structure in real time.

    Press and hold **Shift** and press this button to view ***XYFX Mode***, which turns the touchscreen into an XY pad where each axis represents the range of an effect parameter. As you move touch or move your finger on the touchscreen, the current position will determine the current value of the two parameters. You can use this mode to create interesting effect automation on your tracks.

20. **Step Seq** / **Automation:** Press this button to view ***Step Sequencer*** mode where you can create or edit sequences by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.

    Press and hold **Shift** and press this button to toggle Global Automation between **Read** and **Write**.

21. **TC** / **On/Off:** Press this button to open the ***Timing Correct (TC)*** window, which contains various settings to help quantize the events in your sequence.

    Press and hold **Shift** and press this button to turn Timing Correct on and off.

22. **Sampler** / **Looper**: Press this button to view the ***Sampler*** where you can record audio samples to use in your projects.

    Press and hold **Shift** and press this button to view the ***Looper*** where you can record and overdub audio in real time—a great tool for live performance as well as spontaneous moments in the studio. You can export the loop as a sample to use in your project.

23. **Sample Edit** / **Q-Link Edit**: Press this button to view ***Sample Edit Mode*** where you can edit your samples using various functions and processes.

    Press and hold **Shift** and press this button to view ***Q-Link Edit Mode*** where you can assign other parameters to the Q-Link knobs.

24. **Program Edit** / **MIDI Control**: Press this button to view ***Track Edit Mode***, which contains all parameters for editing your tracks.

    Press and hold **Shift** and press this button to view ***MIDI Control Mode*** where you can customize what MIDI messages are sent from certain controls on your hardware.

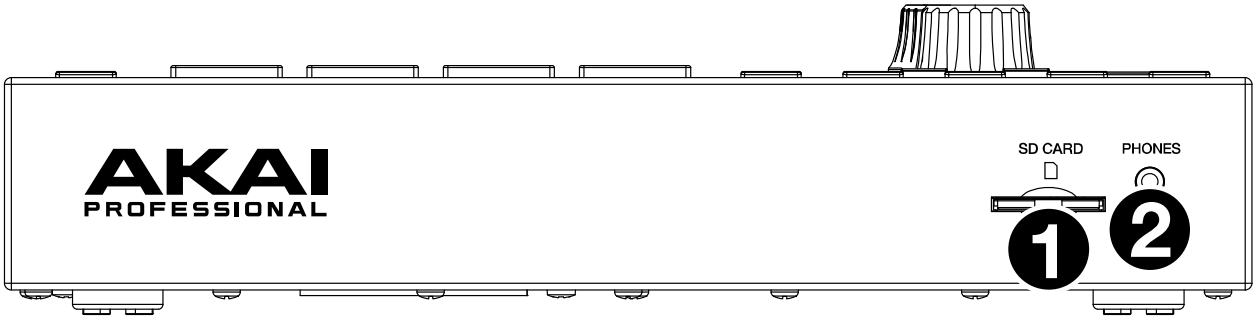
Transport & Recording Controls

25. **Rec**: Press this button to record-arm the sequence. Press **Play** or **Play Start** to start recording. Recording in this way (as opposed to using **Overdub**) erases the events of the current sequence. After the sequence plays through once while recording, Overdub will be enabled.
26. **Overdub**: Press this button to enable Overdub. When enabled, you can record events in a Sequence without overwriting any previously recorded events. You can enable Overdub before or during recording.
27. **Stop**: Press this button to stop playback. You can double-press this button to silence audio that is still sounding once a note stops playing. Press and hold **Shift** and press this button to return the playhead to 1:1:0.
28. **Play**: Press this button to play the sequence from the playhead's current position.
29. **Play Start**: Press this button to play the sequence from its start point.
30. **Tap Tempo** / **Master (Global)**: Press this button in time with the desired tempo to enter a new tempo (in BPM).

    Press and hold **Shift** and press this button to set whether the currently selected sequence follows its own tempo (the button will be lit **amber**) or a global tempo (the button will be lit **red**).

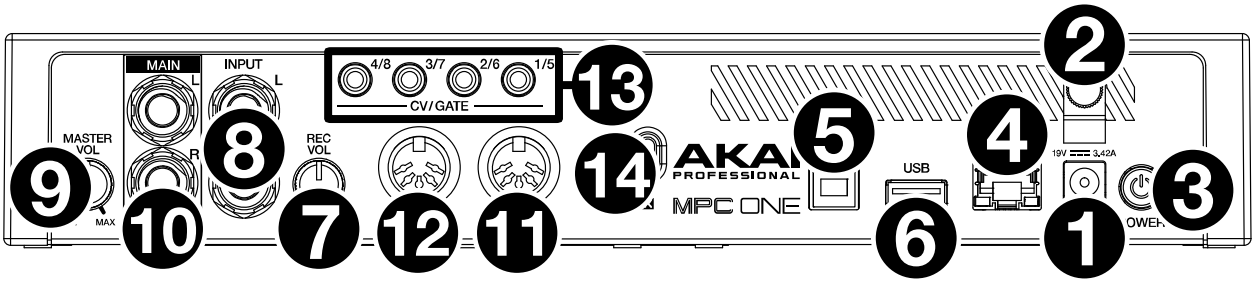
31. **Erase**: As a Sequence is playing, press and hold this button and then press a pad to delete the note event for that pad at the current playback position. This is a quick way to delete note events from your sequence without having to stop playback. When playback is stopped, press this button to open the Erase window where notes, automation and other sequence data can be erased from the sequence.

Front Panel



1. **SD Card Slot**: Insert a standard SD, SDHC or SDXC card into this slot to access its files directly using MPC One.
2. **Phones** (1/8" / 3.5 mm): Connect standard 1/8" (3.5 mm) stereo headphones to this output.

Rear Panel



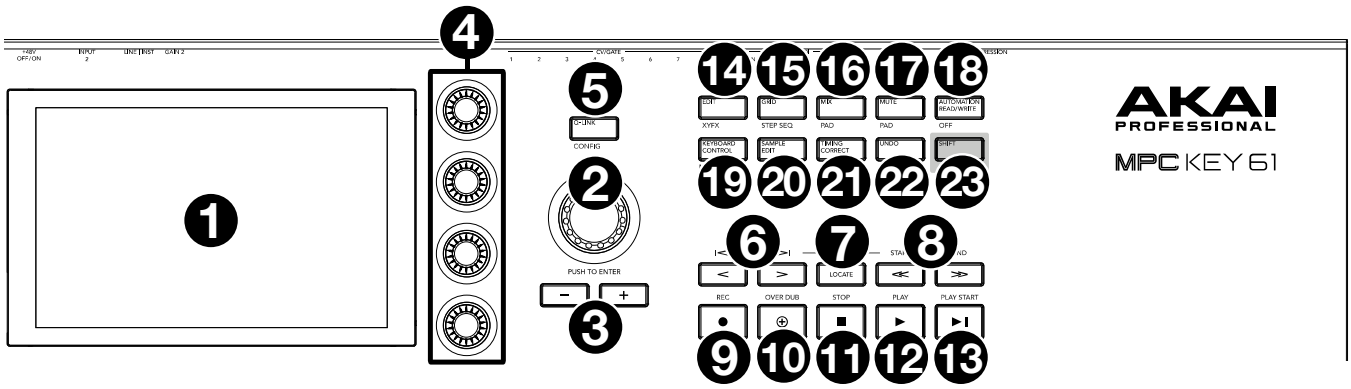
1. **Power Input**: Use the included power adapter to connect MPC One to a power outlet.
2. **Power Adapter Restraint**: Secure the power adapter cable to this restraint to prevent it from accidentally unplugging.
3. **Power Switch**: Turns MPC One's power on/off.
4. **Link:** Connect a standard Ethernet cable to this port to use Ableton Link and other compatible devices with MPC One. See ***Operation*** > ***General Features*** > ***Menu*** > ***Sync*** for more information.

   Note: You can also use Ableton Link wirelessly over a Wi-Fi connection.

   Note: Not available on MPC One+.
5. **USB-B Port**: Use the included USB cable to connect this high-retention-MPC One USB port to an available USB port on your computer. This connection allows MPC One to send/receive MIDI and audio data to/from the MPC software on your computer.
6. **USB-A Port**: Connect a USB flash drive to this USB port to access files directly using MPC One. You can also connect a standard MIDI controller to this port.
7. **Rec Vol**: Turn this knob to adjust the volume of the **inputs**.
8. **Inputs** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these inputs to an audio source (mixer, synthesizer, drum machine, etc.). In Sample Record Mode, you can select whether you want to record either channel or both channels in stereo or in mono.
9. **Master Vol**: Turn this knob to adjust the volume of the **outputs** and **phones output**.
10. **Outputs** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these outputs to your monitors, mixer, etc.
11. **MIDI In**: Use a standard 5-pin MIDI cable to connect this input to the MIDI output of an external MIDI device (synthesizer, drum machine, etc.).
12. **MIDI Out**: Use a standard 5-pin MIDI cable to connect this output to the MIDI input of an external MIDI device (synthesizer, drum machine, etc.).
13. **CV/Gate Outs**: MPC One will send control voltage (CV) and/or Gate signals over these outputs to optional external sequencers. Use standard 1/8" (3.5 mm) TS cables to send a single CV/Gate signal per output, or use a stereo TRS-to-dual mono TSF breakout cable (such as a Hosa YMM-261) to send two CV/Gate signals per output.
14. **Kensington® Lock Slot**: You can use this slot to secure your MPC One to a table or other surface.

MPC Key 61

Top Panel



1. **Display**: This full-color multi-touch display shows information relevant to MPC Key 61's current operation. Touch the display (and use the hardware controls) to control the MPC interface.
2. **Data Dial**: Use this dial to scroll through the available menu options or adjust the parameter values of the selected field on the **display**. Pressing the dial also functions as an **Enter** button.
3. **–/+**: Press these buttons to increase or decrease the value of the selected field on the display.
4. **Q-Link Knobs**: Use these touch-sensitive knobs to adjust various parameters and settings. The knobs can control one column of parameters at a time. The lights above the **Q-Link button** indicate the currently selected column. Press the **Q-Link** button to change which column of parameters they currently control.
5. **Q-Link Button**: Press this button to change which column of parameters the **Q-Link Knobs** currently control (indicated by the lights above the button). Each press will select the next column.

   Press and hold **Shift** and then press this button to view the Q-Link Configuration window. Press and hold **Shift** and then press this button again to return to the Main page.
6. **</>** (**Event |</>|**): Use these buttons to move the audio pointer left/right, one step at a time.

   Press and hold **Locate** and press one of these buttons to move the audio pointer to the previous/next event in the sequence grid.
7. **Locate**: Press this button to open the ***Locate*** window, which allows you to quickly jump to specific points in your project.

   Press and hold this button to activate the secondary functions of the **</>** and **<</>>** buttons (i.e., **Event |</>|** and **Start**/**End**, respectively).
8. **<</>>** (**Start**/**End**): Use these buttons to move the audio pointer left/right, one bar at a time.

   Press and hold **Locate** and press one of these buttons to move the audio pointer to the start or end of the sequence grid.
9. **Rec / Recall**: Press this button to record-arm the sequence. Press **Play** or **Play Start** to start recording. Recording in this way (rather than using **Overdub**) erases the events of the current sequence. After the sequence plays through once while recording, Overdub will be enabled.

   Press and hold **Shift** and press this button to recall recently played MIDI note events when recording was disabled and insert them into the current sequence.
10. **Overdub**: Press this button to enable Overdub, which allows you to record note events in a sequence without overwriting any previously recorded note events. You can enable Overdub either before or during recording.
11. **Stop / Return**: Press this button to stop playback. Double-press this button to immediately stop all sound.

    Press and hold **Shift** and press this button to stop playback and return the playhead to the Loop Start value.
12. **Play**: Press this button to play the sequence from the audio pointer's current position.
13. **Play Start**: Press this button to play the sequence from its start point.
14. **Edit / XYFX:** Press this button to view ***Track Edit Mode***, which contains all parameters for editing your tracks.

    Press and hold **Shift** and press this button to view ***XYFX Mode***, which turns the touchscreen into an XY pad where each axis represents the range of an effect parameter. As you touch or move your finger on the touchscreen, the current position will determine the current value of the two parameters. You can use this mode to create interesting effect automation on your tracks.

15. **Grid / Step Seq:** Press this button to enter ***Grid View*** mode, where you can view and edit the note events of each track of a sequence in a project and their velocities.

    Press and hold **Shift** and press this button to view ***Step Sequencer*** mode where you can create or edit sequences by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.

16. **Mix / Pad:** Press this button to view the ***Channel Mixer*** where you can set levels, stereo panning, and other settings for your tracks, returns, submixes, and main outputs.

    Press and hold **Shift** and then press this button to view the ***Pad Mixer*** where you can set a track's levels, stereo panning, routing, and effects.

17. **Mute / Pad:** Press this button to view ***Track Mute Mode*** where you can easily mute tracks within a sequence or set mute groups for each track.

    Press and hold **Shift** and press this button to view ***Pad Mute Mode*** where you can easily mute pads within a track or set mute groups for each pad within a track.

18. **Automation Read/Write / Off:** Press this button to toggle the Global Automation state between **Read** and **Write**.

    Press and hold **Shift** and press this button to disable or enable Global Automation.

19. **Keyboard Control / MIDI CTRL:** Press this button to view the ***Keyboard Control*** menu, where you can customize the functions of the keyboard and wheels, including velocity response, routing, MIDI assignments, ranges and more.

    Press and hold **Shift** and press this button to view ***MIDI Control Mode***, where you can use the device as a MIDI controller and customize what MIDI messages are sent from the hardware controls.

20. **Sample Edit / Sampler:** Press this button to view ***Sample Edit Mode*** where you can edit your samples using various functions and processes.

    Press and hold **Shift** and press this button to view the ***Sampler*** where you can record audio samples to use in your projects.

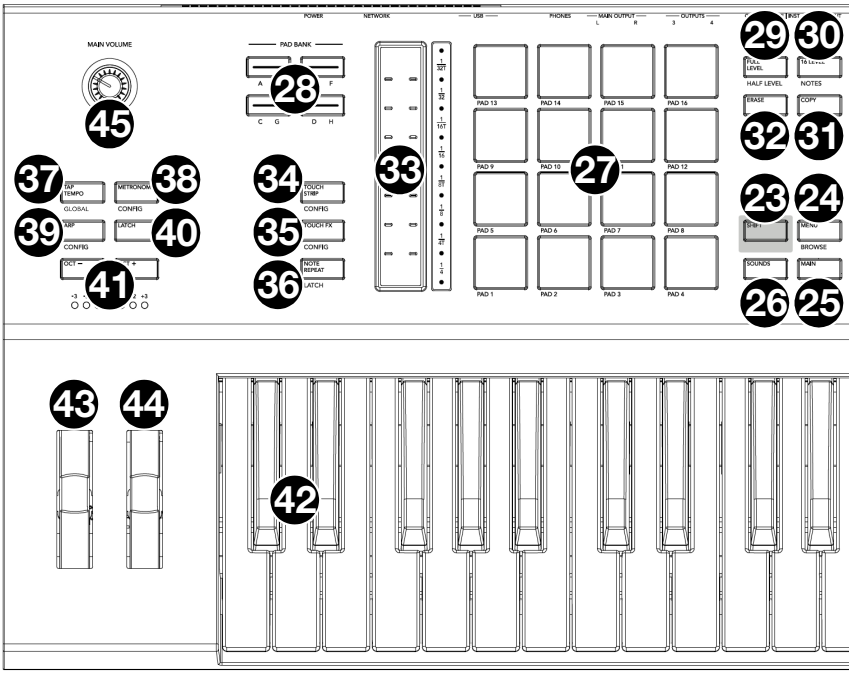
21. **Timing Correct / On/Off:** Press this button to open the ***Timing Correct (TC)*** window, which contains various settings to help quantize the events in your sequence.

    Press and hold **Shift** and press this button to turn Timing Correct on and off.

22. **Undo** / **Redo**: Press this button to undo your last action.

    Press and hold **Shift** and press this button to redo the last action you undid.

23. **Shift**: Press and hold this button to access some buttons' secondary functions (indicated by white writing).



24. **Menu / Browse:** Press this button to open the mode ***Menu***. You can tap an option on the Menu screen to enter that mode, view, etc.

    Press and hold **Shift** and then press this button to view the ***Browser***. You can use the Browser to locate and select tracks, samples, sequences, etc.

25. **Main** / **Track**: Press this button to view ***Main Mode***.

    Press and hold **Shift** and press this button to view ***Track View Mode***, an overview of the tracks of each sequence. You can also set key ranges in this mode.

26. **Sounds / Favorites:** Press this button to view ***Sounds Mode***, where you can browse MPC Key 61's built-in instruments and presets.

    Press and hold **Shift** and press this button to view ***Favorites***, where you can quickly select instruments and presets that you have defined as your favorites.

27. **Pads**: Use these pads to trigger drum hits or other samples. The pads are velocity-sensitive and pressure-sensitive, which makes them very responsive and intuitive to play. The pads will light up different colors, depending on the current function. You can also customize their colors.

28. **Pad Bank Buttons**: Press any of these buttons to access Pad Banks A–D. Press and hold **Shift** while pressing any of these buttons to access Pad Banks E–H. Alternatively, double-press one of these buttons.

29. **Full Level** / **Half Level**: Press this button to activate/deactivate Full Level. When activated, the pads will always trigger their samples at the maximum velocity (**127**), regardless of the amount of force you use.

    Press and hold **Shift** and press this button to activate/deactivate Half Level. When activated, the pads will always trigger their samples at half-velocity (**64**).

    Press and hold this button to set a custom user level velocity that can be used in place of Half Level.

30. **16 Level / Notes**: Press this button to activate/deactivate 16 Level. When activated, the last pad that was hit will be temporarily copied to all 16 pads. The pads will play the same sample as the original pad, but a selectable parameter will increase in value with each pad number, regardless of the amount of force you use. In the screen that appears, use the **Type** selector to choose another parameter: **Velocity**, **Tune**, **Filter**, **Layer**, **Attack** or **Decay**. See ***Operation*** > ***General Features*** > ***16 Level*** to learn more.

    Press and hold **Shift** and press this button to activate/deactivate Notes mode for the pads. When activated, you can play musical scales/modes, chords or progressions using the pads while in any mode. Use the Pad Perform window to configure the settings for the pads. See ***Operation*** > ***General Features*** > ***Pad Perform*** to learn more.

31. **Erase**: As a Sequence is playing, press and hold this button and then press a pad or key to delete the note event for that pad or key at the current playback position. This is a quick way to delete note events from your sequence without having to stop playback. When playback is stopped, press this button to open the Erase window where notes, automation and other sequence data can be erased from the sequence.

32. **Copy** / **Delete**: Press this button to copy one pad to another in Drum tracks. When the **From Pad** field is selected, press the "source" pad (the pad you want to copy). When the **To Pad** graphic (of all pads) is selected, press the "destination" pad. You can select multiple destination pads, and you can select pads in different pad banks. Tap **Do It** to continue or **Cancel** to return to the previous screen.

    Press and hold **Shift** and press this button to delete.

33. **Touch Strip:** The touch strip can be used as an expressive control for playing and can be configured to control Note Repeat, Pitch Bend, Modulation and more.

34. **Touch Strip / Config:** Press this button to cycle between control modes for the Touch Strip. Press and hold the button to quickly select one of the control modes.

    Press and hold **Shift** and press this button to view the Touch Strip Configuration window.

35. **Touch FX / Config:** Press this button to enable Touch FX control for the Touch Strip. This allows you to control parameters from the Touch FX plugin using the Touch Strip. Press and hold this button to quickly select a Touch FX preset.

    Press and hold **Shift** and press this button to view the Touch FX Configuration window.

36. **Note Repeat** / **Latch**: Press and hold this button, and then press a pad to trigger that pad's sample repeatedly. The rate is based on the current tempo and Timing Correct settings.

    Press and hold **Shift** and press this button to "latch" the Note Repeat feature. When latched, you do not have to hold the Note Repeat button for it to be activated. Press **Note Repeat** once more to unlatch it.

37. **Tap Tempo** / **Global**: Press this button in time with the desired tempo to enter a new tempo (in BPM). Press and hold this button to adjust the tempo manually using the **data dial**.

    Press and hold **Shift** and press this button to set whether the currently selected sequence follows its own tempo (the button will be lit **white**) or a global tempo (the button will be lit **red**).

38. **Metronome / Config:** Press this button to enable or disable the ***Metronome (Click/Metro)***.

    Press and hold **Shift** and press this button, or press and hold this button, to open the Metronome Configuration window.

39. **Arp / Config:** Press this button to enable or disable the internal ***Arpeggiator***, whose rate is based on the current Tempo and Time Division settings.

    Press and hold **Shift** and press this button, or press and hold this button, to configure the Arpeggiator's settings.

40. **Latch:** Press this button to enable or disable latch for the Arpeggiator. When latched, you do not have to hold the keys for the arpeggiation to continue.

41. **Oct - / Oct +:** Press these buttons to transpose the keyboard down or up one octave at a time. The lights below this button will indicate the current octave setting.

    Press and hold **Shift** and press these buttons to transpose the keyboard down or up one semitone at a time.

    Press and hold both buttons and press a key on the keybed to set the transposition to that value.

    Press and hold both buttons and release to reset the transposition.

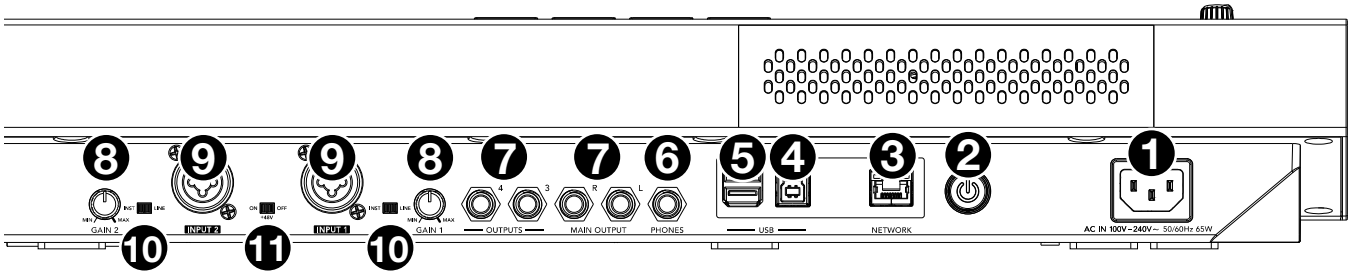
42. **Keybed:** Use this 61-key semi-weighted, velocity-sensitive keybed to input notes and aftertouch.

43. **Pitch Wheel:** The pitch bend wheel is primarily used to bend the notes played on the keyboard up or down. This allows you to play phrases not normally associated with keyboard playing, such as guitar-style riffs.

44. **Modulation Wheel:** The modulation wheel is typically used to add variation for the sound you are playing. This type of real-time controller was originally introduced on electronic keyboard instruments to give the performer options such as adding vibrato, just like the players of acoustic instruments do.

45. **Main Volume**: Turn this knob to adjust the volume of the **outputs** and **phones output**.

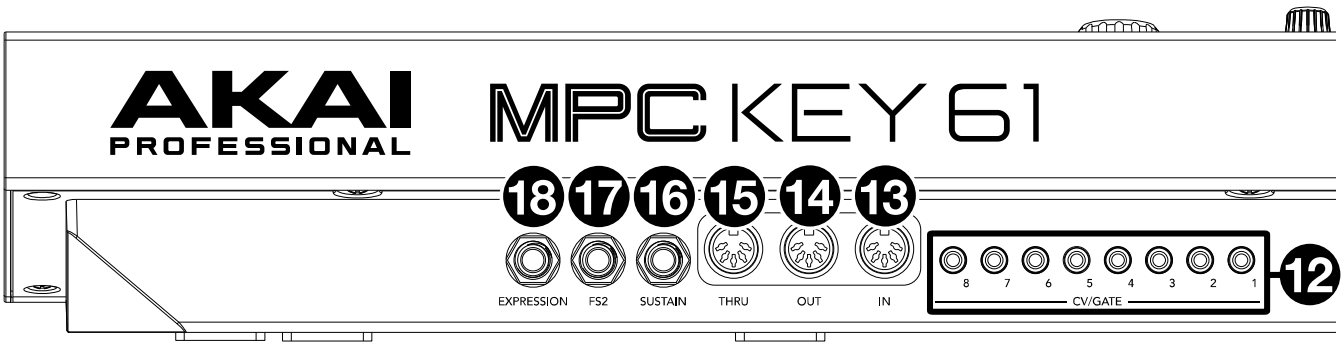
Rear Panel



1. **Power Input**: Use the included power adapter to connect MPC Key 61 to a power outlet.
2. **Power Switch**: Turns MPC Key 61's power on and off.
3. **Network**: Connect a standard Ethernet cable to this port to use Ableton Link and other compatible devices with MPC Key 61. See ***Operation*** > ***General Features*** > ***Menu*** > ***Sync*** for more information.

   Note: You can also use Ableton Link wirelessly over a Wi-Fi connection.
4. **USB-B Port**: Use the included USB cable to connect this high-retention-force USB port to an available USB port on your computer. This connection allows MPC Key 61 to send/receive MIDI and audio data to/from the MPC software on your computer.
5. **USB-A Ports**: Connect a USB flash drive to these USB ports to access its files directly using MPC Key 61. You can also connect any class-compliant MIDI device to these ports.
6. **Phones** (1/4" / 6.35 mm): Connect standard stereo headphones to this output.
7. **Outputs** (1/4" / 6.35 mm): Use standard TRS cables to connect these outputs to your monitors, mixer, etc.). The **Main L/R** outputs are the same as **Outputs 1,2**.
8. **Gain:** Use these knobs to adjust the gain of the incoming signal from **Input 1/2** on the rear panel. Be careful when setting this knob at higher levels, as this can cause the signal to distort.
9. **Inputs 1/2** (XLR or 1/4" / 6.35 mm): Use standard XLR or TRS cables to connect these inputs to audio sources (microphone, mixer, synthesizer, etc.). When using a 1/4" cable, the Mic preamp is removed from the circuit, and the **Line/Inst** switch can be used to set the impedance.

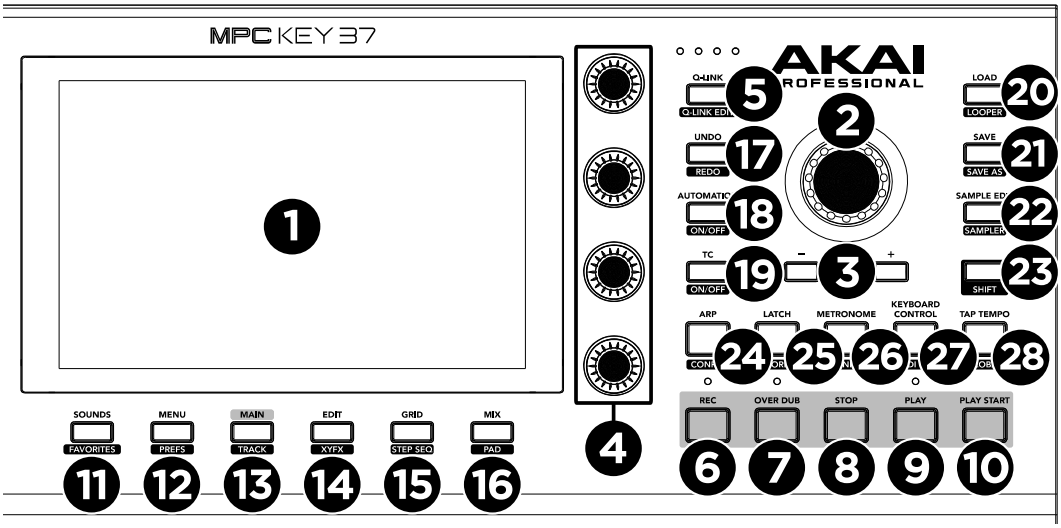
   Turn the **Gain** knobs to set the input level of each one.
10. **Line/Inst:** Use these switches to set **Inputs 1/2** to accept either a Line-level or Instrument-level sound source when using a 1/4" connection.
11. **Phantom Power** (**+48V**): This switch activates and deactivates phantom power for **Inputs 1/2** when using an XLR connection. When activated, +48V of phantom power will be supplied to both inputs. Note that most dynamic microphones do **not** require phantom power, while most condenser microphones **do**. Refer to your microphone's documentation to check if it needs phantom power.



12. **CV/Gate Out** (1/8" / 3.5 mm, TS): MPC Key 61 will send control voltage (CV) and/or Gate signals over these outputs to optional external synths or sequencers. Use standard 1/8" (3.5 mm) TS cables to send a single CV/Gate signal per output.
13. **MIDI In**: Use a standard 5-pin MIDI cable to connect these inputs to the MIDI output of an external MIDI device (additional MIDI keyboard, pad controller, etc.).
14. **MIDI Out**: Use a standard 5-pin MIDI cable to connect these outputs to the MIDI input of an external MIDI device (synthesizer, drum machine, etc.).
15. **MIDI Thru**: Use a standard 5-pin MIDI cable to connect this thru-port to the MIDI input of an external MIDI device (synthesizer, drum machine, etc.). MIDI from the **MIDI In** will be sent through this output.
16. **Sustain** (1/4" / 6.35 mm, TRS): This input accepts an optional momentary-contact foot pedal. When pressed, the pedal will sustain the sound you are playing without having to keep your fingers pressed down on the keys.
17. **FS2** (1/4" / 6.35 mm, TRS): Connect an optional 1/4" (6.35 mm) TRS footswitch or other foot pedal to this input.
18. **Expression** (1/4" / 6.35 mm, TRS): Connect an optional expression pedal to this input for adding expressive changes during performances.

MPC Key 37

Top Panel



1. **Display**: This full-color multi-touch display shows information relevant to MPC Key 37's current operation. Touch the display (and use the hardware controls) to control the MPC interface.
2. **Data Dial**: Use this dial to scroll through the available menu options or adjust the parameter values of the selected field on the **display**. Pressing the dial also functions as an **Enter** button.
3. **–/+**: Press these buttons to increase or decrease the value of the selected field on the display.
4. **Q-Link Knobs**: Use these touch-sensitive knobs to adjust various parameters and settings. The knobs can control one column of parameters at a time. The lights above the **Q-Link button** indicate the currently selected column. Press the **Q-Link** button to change which column of parameters they currently control.
5. **Q-Link Button**: Press this button to change which column of parameters the **Q-Link Knobs** currently control (indicated by the lights above the button). Each press will select the next column.

   Press and hold **Shift** and then press this button to view the Q-Link Configuration window. Press and hold **Shift** and then press this button again to return to the Main page.
6. **Rec**: Press this button to record-arm the sequence. Press **Play** or **Play Start** to start recording. Recording in this way (rather than using **Overdub**) erases the events of the current sequence. After the sequence plays through once while recording, Overdub will be enabled.

   Press and hold **Shift** and press this button to recall recently played MIDI note events when recording was disabled and insert them into the current sequence.
7. **Overdub**: Press this button to enable Overdub, which allows you to record note events in a sequence without overwriting any previously recorded note events. You can enable Overdub either before or during recording.
8. **Stop**: Press this button to stop playback. Double-press this button to immediately stop all sound.

   Press and hold **Shift** and press this button to stop playback and return the playhead to the Loop Start value.
9. **Play**: Press this button to play the sequence from the playhead's current position.
10. **Play Start**: Press this button to play the sequence from its start point.
11. **Sounds / Favorites:** Press this button to view ***Sounds Mode***, where you can browse MPC Key 37's built-in instruments and presets.

    Press and hold **Shift** and press this button to view ***Favorites***, where you can quickly select instruments and presets that you have defined as your favorites.
12. **Menu / Prefs:** Press this button to open the mode ***Menu***. You can tap an option on the Menu screen to enter that mode, view, etc.

    Press and hold **Shift** and then press this button to open the ***Preferences*** page in the Menu.
13. **Main** / **Track**: Press this button to view ***Main Mode***.

    Press and hold **Shift** and press this button to view ***Track View Mode***, an overview of the tracks of each sequence. You can also set key ranges in this mode.

14. **Edit / XYFX:** Press this button to view ***Track Edit Mode***, which contains all parameters for editing your tracks.

    Press and hold **Shift** and press this button to view ***XYFX Mode***, which turns the touchscreen into an XY pad where each axis represents the range of an effect parameter. As you touch or move your finger on the touchscreen, the current position will determine the current value of the two parameters. You can use this mode to create interesting effect automation on your tracks.

15. **Grid / Step Seq:** Press this button to enter ***Grid View*** mode, where you can view and edit the note events of each track of a sequence in a project and their velocities.

    Press and hold **Shift** and press this button to view ***Step Sequencer*** mode where you can create or edit sequences by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.

16. **Mix / Pad:** Press this button to view the ***Channel Mixer*** where you can set levels, stereo panning, and other settings for your tracks, returns, submixes, and main outputs.

    Press and hold **Shift** and then press this button to view the ***Pad Mixer*** where you can set a track's levels, stereo panning, routing, and effects.

17. **Undo** / **Redo**: Press this button to undo your last action.

    Press and hold **Shift** and press this button to redo the last action you undid.

18. **Automation / On/Off:** Press this button to toggle the Global Automation state between **Read** and **Write**.

    Press and hold **Shift** and press this button to disable or enable Global Automation.

19. **TC / On/Off:** Press this button to open the ***Timing Correct (TC)*** window, which contains various settings to help quantize the events in your sequence.

    Press and hold **Shift** and press this button to turn Timing Correct on and off.

20. **Load / Looper:** Press this button to view the ***Browser***. You can use the Browser to locate and select tracks, samples, sequences, etc.

    Press and hold **Shift** and press this button to view the ***Looper*** where you can record and overdub audio in real time—a great tool for live performance as well as spontaneous moments in the studio. You can export the loop as a sample to use in your project.

21. **Save / Save As:** Press this button to save the current project.

    Press and hold **Shift** and press this button to open the ***Save*** window.

22. **Sample Edit / Sampler:** Press this button to view ***Sample Edit Mode*** where you can edit your samples using various functions and processes.

    Press and hold **Shift** and press this button to view the ***Sampler*** where you can record audio samples to use in your projects.

23. **Shift**: Press and hold this button to access some buttons' secondary functions (indicated by white writing).

24. **Arp / Config:** Press this button to enable or disable the internal ***Arpeggiator***, whose rate is based on the current Tempo and Time Division settings.

    Press and hold **Shift** and press this button, or press and hold this button, to configure the Arpeggiator's settings.

25. **Latch / Chord:** Press this button to enable or disable latch for the Arpeggiator. When latched, you do not have to hold the keys for the arpeggiation to continue.

    Play a chord on the keyboard and then press and hold **Shift** and press this button to enable Chord Mode. Playing any note will now play the full chord transposed to the new note with a single key press.

26. **Metronome / Config:** Press this button to enable or disable the ***Metronome (Click/Metro)***.

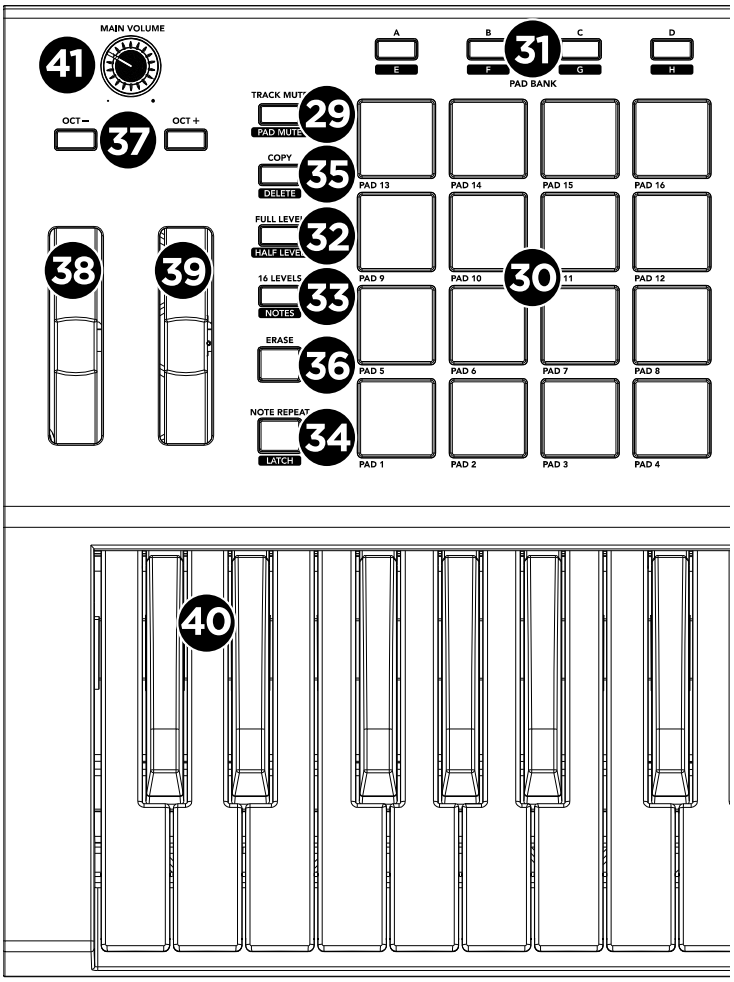
    Press and hold **Shift** and press this button, or press and hold this button, to open the Metronome Configuration window.

27. **Keyboard Control / MIDI CTRL:** Press this button to view the ***Keyboard Control*** menu, where you can customize the functions of the keyboard and wheels, including velocity response, routing, MIDI assignments, ranges and more.

    Press and hold **Shift** and press this button to view ***MIDI Control Mode***, where you can use the device as a MIDI controller and customize what MIDI messages are sent from the hardware controls.

28. **Tap Tempo** / **Global**: Press this button in time with the desired tempo to enter a new tempo (in BPM). Press and hold this button to adjust the tempo manually using the **data dial**.

    Press and hold **Shift** and press this button to set whether the currently selected sequence follows its own tempo (the button will be lit **white**) or a global tempo (the button will be lit **red**).



29. **Mute / Pad:** Press this button to view ***Track Mute Mode*** where you can easily mute tracks within a sequence or set mute groups for each track.

    Press and hold **Shift** and press this button to view ***Pad Mute Mode*** where you can easily mute pads within a track or set mute groups for each pad within a track.

30. **Pads**: Use these pads to trigger drum hits or other samples. The pads are velocity-sensitive and pressure-sensitive, which makes them very responsive and intuitive to play. The pads will light up different colors, depending on the current function. You can also customize their colors.

31. **Pad Bank Buttons**: Press any of these buttons to access Pad Banks A–D. Press and hold **Shift** while pressing any of these buttons to access Pad Banks E–H. Alternatively, double-press one of these buttons.

32. **Full Level** / **Half Level**: Press this button to activate/deactivate Full Level. When activated, the pads will always trigger their samples at the maximum velocity (**127**), regardless of the amount of force you use.

    Press and hold **Shift** and press this button to activate/deactivate Half Level. When activated, the pads will always trigger their samples at half-velocity (**64**).

    Press and hold this button to set a custom user level velocity that can be used in place of Half Level.

33. **16 Level / Notes**: Press this button to activate/deactivate 16 Level. When activated, the last pad that was hit will be temporarily copied to all 16 pads. The pads will play the same sample as the original pad, but a selectable parameter will increase in value with each pad number, regardless of the amount of force you use. In the screen that appears, use the **Type** selector to choose another parameter: **Velocity**, **Tune**, **Filter**, **Layer**, **Attack** or **Decay**. See ***Operation*** > ***General Features*** > ***16 Level*** to learn more.

    Press and hold **Shift** and press this button to activate/deactivate Notes mode for the pads. When activated, you can play musical scales/modes, chords or progressions using the pads while in any mode. Use the Pad Perform window to configure the settings for the pads. See ***Operation*** > ***General Features*** > ***Pad Perform*** to learn more.

34. **Note Repeat** / **Latch**: Press and hold this button, and then press a pad to trigger that pad's sample repeatedly. The rate is based on the current tempo and Timing Correct settings.

    Press and hold **Shift** and press this button to "latch" the Note Repeat feature. When latched, you do not have to hold the Note Repeat button for it to be activated. Press **Note Repeat** once more to unlatch it.

35. **Copy** / **Delete**: Press this button to copy one pad to another in Drum tracks. When the **From Pad** field is selected, press the “source” pad (the pad you want to copy). When the **To Pad** graphic (of all pads) is selected, press the “destination” pad. You can select multiple destination pads, and you can select pads in different pad banks. Tap **Do It** to continue or **Cancel** to return to the previous screen.

    Press and hold **Shift** and press this button to delete.

36. **Erase**: As a Sequence is playing, press and hold this button and then press a pad or key to delete the note event for that pad or key at the current playback position. This is a quick way to delete note events from your sequence without having to stop playback. When playback is stopped, press this button to open the Erase window where notes, automation and other sequence data can be erased from the sequence.
37. **Oct - / Oct +:** Press these buttons to transpose the keyboard down or up one octave at a time.

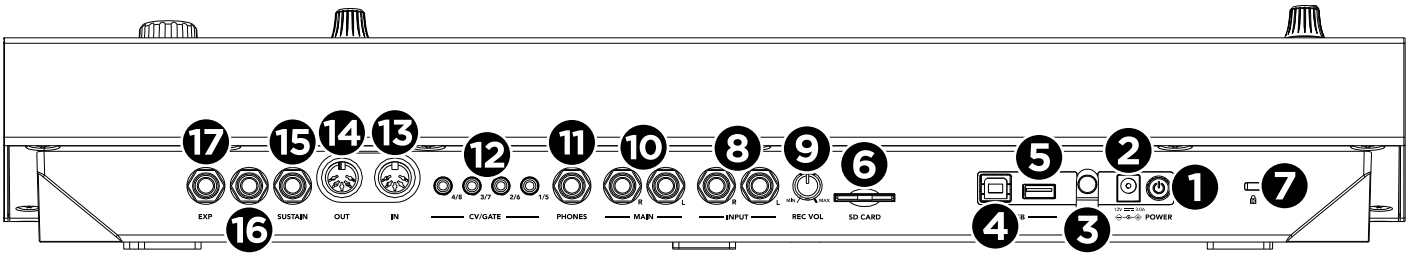
    Press and hold **Shift** and press these buttons to transpose the keyboard down or up one semitone at a time.

    Press and hold both buttons and press a key on the keybed to set the transposition to that value.

    Press and hold both buttons and release to reset the transposition.

38. **Pitch Wheel:** The pitch bend wheel is primarily used to bend the notes played on the keyboard up or down. This allows you to play phrases not normally associated with keyboard playing, such as guitar-style riffs.
39. **Modulation Wheel:** The modulation wheel is typically used to add variation for the sound you are playing. This type of real-time controller was originally introduced on electronic keyboard instruments to give the performer options such as adding vibrato, just like the players of acoustic instruments do.
40. **Keybed:** Use this 37-key semi-weighted, velocity-sensitive keybed to input notes and aftertouch.
41. **Main Volume**: Turn this knob to adjust the volume of the **outputs** and **phones output**.

Rear Panel



1. **Power Switch**: Turns MPC Key 37's power on/off.
2. **Power Input**: Use the included power adapter to connect MPC Key 37 to a power outlet.
3. **Power Adapter Restraint**: Secure the power adapter cable to this restraint to prevent it from accidentally unplugging.
4. **USB-B Port**: Use the included USB cable to connect this high-retention-force USB port to an available USB port on your computer. This connection allows MPC Key 37 to send/receive MIDI and audio data to/from the MPC software on your computer.
5. **USB-A Port**: Connect a USB flash drive to this USB port to access files directly using MPC Key 37. You can also connect a standard MIDI controller to this port.
6. **SD Card Slot**: Insert a standard SD, SDHC or SDXC card into this slot to access its files directly using MPC Key 37.
7. **Kensington® Lock Slot**: You can use this slot to secure your MPC Key 37 to a table or other surface.
8. **Inputs** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these inputs to an audio source (mixer, synthesizer, drum machine, etc.). In Sample Record Mode, you can select whether you want to record either channel or both channels in stereo or in mono.
9. **Rec Vol**: Turn this knob to adjust the volume of the **inputs**.
10. **Main Outputs** (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these outputs to your monitors, mixer, etc.
11. **Phones** (1/4" / 6.35 mm): Connect standard stereo headphones to this output.
12. **CV/Gate Outs** (1/8" / 3.5 mm, TRS): MPC Key 37 will send control voltage (CV) and/or Gate signals over these outputs to optional external sequencers. Use standard 1/8" (3.5 mm) TS cables to send a single CV/Gate signal per output, or use a stereo TRS-to-dual mono TSF breakout cable (such as a Hosa YMM-261) to send two CV/Gate signals per output.
13. **MIDI In**: Use a standard 5-pin MIDI cable to connect this input to the MIDI output of an external MIDI device (additional MIDI keyboard, pad controller, etc.).
14. **MIDI Out**: Use a standard 5-pin MIDI cable to connect this output to the MIDI input of an external MIDI device (synthesizer, drum machine, etc.).
15. **Sustain** (1/4" / 6.35 mm, TRS): This input accepts an optional momentary-contact foot pedal. When pressed, the pedal will sustain the sound you are playing without having to keep your fingers pressed down on the keys.
16. **FS2** (1/4" / 6.35 mm, TRS): Connect an optional 1/4" (6.35 mm) TRS footswitch or other foot pedal to this input.
17. **Expression** (1/4" / 6.35 mm, TRS): Connect an optional expression pedal to this input for adding expressive changes during performances.

Appendix

Glossary

This glossary briefly defines and explains many of the technical terms used throughout this manual.

Aftertouch The majority of contemporary keyboards are capable of generating aftertouch messages. On this type of keyboard, when you press harder on a key you are already holding down, a MIDI aftertouch message is generated. This feature makes sounds even more expressive (e.g., through vibrato).

Aliasing Aliasing is an audible side effect arising in digital systems as soon as a signal contains harmonics higher than half the sampling frequency.

Amount Describes to which extent a modulation source influences a given parameter.

Amplifier An amplifier is a component that influences the volume level of a sound via a control signal. It can be modulated by a control signal (e.g., generated by an ***envelope*** or an ***LFO***).

Attack An ***envelope*** parameter. This term describes the ascent rate of a time-relevant process (e.g., an envelope from its starting point to the point where it reaches its highest value). The attack phase is initiated immediately after a trigger signal is received (e.g., after you play a note on a trigger pad or a keyboard).

Bit Rate Bit rate (also known as **word length**), is the number of bits used to store the level information of each single sample slice within a whole sample. The higher the bit rate, the more precise the information about a sample (i.e., its dynamics' resolution). Normal audio CDs are 16-bit. The MPC hardware supports full 24-bit resolution.

Clipping Clipping is a sort of distortion that occurs when a signal exceeds the maximum value that can be managed by a signal processing system it is fed into. The curve of a clipped signal is dependent on the system where the clipping occurs. In the analog domain, clipping effectively limits the signal to a given maximum level. In the digital domain, clipping is similar to a numerical overflow, resulting in negative polarity of the signal's portions exceeding the maximum level.

Control Change (Controllers) MIDI messages enable you to manipulate the behavior of a sound generator to a significant degree. This message essentially consists of two components:

- The controller number, which defines the parameter to be influenced. It can range from **0** to **127**.
- The controller value, which determines the extent of the modification.

Controllers can be used for effects such as slowly swelling vibrato, changing the stereo panning position and influencing filter frequency.

Cutoff The cutoff frequency is a significant factor for a ***filter***. A low-pass filter for example dampens the portion of the signal that lies above this frequency. Frequencies below this value are allowed to pass through without being processed.

CV **CV** stands for **control voltage**, an analog method of sending control messages to external synthesizers, drum machines, etc. CV messages are typically used in conjunction with ***Gate*** messages (CV messages determine the pitch of notes while Gate messages determine note activation and length). CV messages are sent from the CV out ports of your MPC hardware and to the CV in ports of your external device.

Please note that each external device uses a specific control voltage range, which determines how many volts are used in each octave (e.g., **1V/oct**). Be mindful of this when setting it up with the MPC software and/or controller hardware—mismatched voltage ranges can produce unusual/undesirable "re-scaling" of the octaves.

Decay Decay describes the descent rate of an ***envelope*** once the attack phase has reached its maximum and the envelope drops to the level defined by the sustain value.

Envelope

An envelope is used to modulate a sound-shaping component within a given time. For instance, an envelope that modulates the cutoff frequency of a filter opens and closes this filter over a period of time. An envelope is started via a trigger, usually a MIDI note.

The classic **ADSR** envelope consists of four individually variable phases: **attack**, **decay**, **sustain**, and **release**. Attack, decay and release are time or slope values, while sustain is an adjustable level. Once an incoming trigger is received, the envelope runs through the attack and decay phases until it reaches the programmed sustain level. This level remains constant until the trigger is terminated. The envelope then initiates the release phase until it reaches the minimum value.

You can see and read about the envelopes used in MPC in ***Operation*** > ***Modes*** > ***Track Edit Mode*** > ***Anatomy of an Envelope***.

Filter

A filter is a component that allows some of a signal's frequencies to pass through it and dampens other frequencies. The most important aspect of a filter is the filter cutoff frequency. Filters generally come in four categories: **low-pass**, **high-pass**, **band-pass**, and **band-stop**. These are the available filters:

A **low-pass** filter (the most common type) dampens all frequencies above the cutoff frequency.

A **high-pass** filter in turn dampens the frequencies below the cutoff.

A **band-pass** filter allows only those frequencies around the cutoff frequency to pass. All others are dampened.

A **band-stop** filter does the opposite of a band-pass: it dampens only the frequencies around the cutoff frequency.

A **band-boost** filter boosts the frequencies around the cutoff frequency, similar to what a band on an equalizer would do. All other frequencies pass through normally.

The number of **poles** in a filter's "slope" determines how extreme or subtle the effect of the filter will be. Filters with one or two poles produce a subtler sound while filters with six or eight poles are much more pronounced.

The **Model** filters are analog-style emulations of famous vintage synth filters. **Model1** is a four-pole filter that distorts at high input levels. **Model2** uses a mellow resonance with a "fattening" distortion in the lower frequencies. **Model3** can produce howling, piercing resonances and extreme sub frequencies—watch your speakers!

The **Vocal** filters are formant filters that emulate the human voice. **Vocal1** produces "ah" and "ooh" vowel sounds. **Vocal2** uses three bands to produce "oh" and "ee" vowel sounds. **Vocal3** uses five bands to emulate an idealized model of the vocal tract.

MPC3000 LPF is a dynamic, resonant low-pass filter (12 dB/oct) that was used on the original MPC3000, released in 1994.

Please also see the entry for ***Resonance***, an essential characteristic of a filter's sound.

Gate

Gate messages are analog messages sent to external synthesizers, drum machines, etc. Gate messages are typically used in conjunction with ***CV*** messages (CV messages determine the pitch of notes while Gate messages determine note activation and length). Gate messages are sent from the CV out ports of your MPC hardware and to the CV/Gate in ports of your external device.

LFO

LFO is an acronym for **low-frequency oscillator**. The LFO generates a periodic oscillation at a low frequency and features variable waveshapes. Similar to an envelope, an LFO can be used to modulate a sound-shaping component.

MIDI — **MIDI** stands for **musical instrument digital interface**. Developed in the early 1980s, MIDI enables interaction between various types of electronic music instruments from different manufacturers. At the time a communications standard for heterogeneous devices did not exist, so MIDI was a significant advance. It made it possible to link various devices with one another through simple, standardized connectors.

Essentially, this is how MIDI works: One sender is connected to one or several receivers. For instance, if you want to use a computer to play a MIDI synthesizer, the computer is the sender and the synthesizer acts as the receiver. With a few exceptions, the majority of MIDI devices are equipped with two or three ports for this purpose: MIDI In, MIDI Out and in some cases MIDI Thru. The sender transfers data to the receiver via the MIDI Out jack. Data are sent via a cable to the receiver's MIDI In jack.

MIDI Thru has a special function. It allows the sender to transmit to several receivers. It routes the incoming signal to the next device without modifying it. Another device is simply connected to this jack, thus creating a chain through which the sender can address a number of receivers. Of course, it is desirable for the sender to be able to address each device individually. To achieve this, a MIDI channel message is sent with each MIDI event.

MIDI Channel — This is a very important element of most messages. A receiver can only respond to incoming messages if its receive channel is set to the same channel as the one the sender is using to transmit data. Subsequently, the sender can address specific receivers individually. MIDI Channels 1–16 are available for this purpose.

MIDI Clock — The MIDI clock message transmits real-time tempo information to synchronize processes among several connected devices (e.g., a sound generator's delay time to a MIDI sequencer).

Modulation — A modulation influences or changes a sound-shaping component via a modulation source. Modulation sources include envelopes, LFOs or MIDI messages. The modulation destination is a sound-shaping component such as a filter or a VCA.

Note On & **Note Off** — This is the most important MIDI message. It determines the pitch and velocity of a generated note. A note-on message will start a note. Its pitch is derived from the note number, which can range from **0** to **127**. The velocity ranges from **1** to **127**. A velocity value of **0** is equivalent to a note-off message.

Normalize — Normalization is a function to raise the level of a sample to its maximum (**0 dB**) without causing distortion. This function automatically searches a sample for its maximum level and consequently raises the entire sample's level until the previously determined maximum level reaches 0 dB. In general, this results in a higher overall volume of the sample.

Panning — The process or the result of changing a signal's position within the stereo panorama.

Pitch-Bend — Pitch-bend is a MIDI message. Although pitch-bend messages are similar in function to control change messages, they are a distinct type of message. The resolution of a pitch-bend message is substantially higher than that of a conventional controller message. The human ear is exceptionally sensitive to deviations in pitch, so the higher resolution is used because it relays pitch-bend information more accurately.

Program Change — These are MIDI messages that select sound programs. Programs **1**–**128** can be changed via program change messages.

Release — An ***envelope*** parameter. This term describes the descent rate of an envelope to its minimum value after a trigger is terminated. The release phase begins immediately after the trigger is terminated, regardless of the envelope's current status. For instance, the release phase may be initiated during the attack phase.

Resonance — Resonance or emphasis is an important ***filter*** parameter. It emphasizes the frequencies around the filter cutoff frequency by amplifying them with a narrow bandwidth. This is one of the most popular methods of manipulating sounds. If you increase the emphasis to a level where the filter enters a state of self-oscillation, it will generate a relatively pure sine waveform.

Root Key The root key defines the original pitch of a recorded instrument or of a sample. Samples in MPC contain the dedicated root key information. This information will be created automatically during recording or importing.

Sample When you tap the pads on your MPC hardware, you can trigger sounds that we call **samples**. Samples are digitized snippets of audio that can be recorded using the recording (sampling) function of your MPC hardware or loaded from the Browser.

You can edit and process a sample in different ways. For example, a sample can be trimmed, looped, pitch-shifted or processed, using various effects. When you have finished editing your sample, you can assign it to one or more drum pads to play it. Samples can be either mono or stereo.

Sample Rate This is the frequency representing the amount of individual digital sample scans per second that are taken to capture an analog signal digitally. For normal CD audio recordings, **44100** samples per second are used, also written as **44.1 kHz**.

Stretch Factor The stretch factor is a value generated by the ***Warp*** algorithm in the software. When you record an audio file, the current project tempo will be embedded with it. This information is stored within the sample file when you save the project. When you warp an audio track region, the warping algorithm uses this project tempo and the current value in the **BPM** field to generate the stretch factor.

Sustain This term describes the level of an ***envelope*** remaining constant after it has passed the attack and decay phases. Once reached, the sustain level is kept until the trigger is terminated.

Time-Stretch See ***Warp*** below.

Track A project on your MPC hardware can contain **128** MIDI tracks and **8** audio tracks.

Each **MIDI track** contains MIDI note events and controller data. In this case, the track contains no audio information—only MIDI information that uses the samples in a drum track or keygroup track (or an external MIDI sound module) to generate its audio. You can edit your performance in many different ways once the performance has been captured.

Each **audio track** contains an audio signal that has been recorded or imported into your project. You can edit this audio within the software and incorporate it into your project alongside your MIDI tracks.

Trigger A trigger is a signal that initiates events. Trigger signals are very diverse. For instance, a MIDI note or an audio signal can be used as a trigger. The events a trigger can initiate are also very diverse. A common application for a trigger is its use to start an envelope.

Warp The Warp feature lengthens or shortens a region of an audio track or sample without changing its pitch. This enables you to fit the length of an audio track or sample to the length of a sequence, a bar in your sequence, etc. while maintaining its original key.

Please note that the Warp algorithms are very CPU-intensive and can result in audio drop-outs during playback if used too freely. Be mindful of how (and how often) you use the warp function. You can reduce the CPU resources required by doing any/all of the following:

- Minimize the amount of pitch adjustment of warped audio.
- In Track Edit Mode, avoid using extreme **Stretch** values.
- Avoid warping very small audio regions.
- Warp as few tracks or track regions as possible (i.e., reduce the number of total number of voices of the polyphonic limit that use the Warp algorithm at a given time), especially instances where the warped regions start at the same time.
- Avoid rapidly triggering samples that are warped.
- If you have warped samples used in a drum track or keygroup track, consider using the **Flatten Pad** function to consolidate the affected pad's layers into one audio sample (see ***here*** to learn about this). After you flatten the pad, its sample/samples no longer need to be warped.

Effects & Parameters

This chapter lists the available effects. To learn more about how effects work with MPC, please see ***General Features*** > ***Effects***.

Effects with a * next to their name are not included with MPC and are available for purchase from **thempcstore.com**.

Note: Some of these effects have a "sync" version (e.g., **Flanger Sync**, **Autopan Sync**, etc.) whose rates will be affected by the current tempo. While viewing the rate of these effects, a "**.**" next to the time division indicates a triplet-based rate.

Delay/Reverb

Options: ***AIR Delay***, ***AIR Diff Delay***, ***AIR Multitap Delay***, ***AIR Non-Lin Reverb***, ***AIR Reverb***, ***AIR Spring Reverb***, ***Delay Analog Sync***, ***Delay Analog***, ***Delay HP***, ***Delay LP***, ***Delay Mono Sync***, ***Delay Mono***, ***Delay Multi-Tap***, ***Delay Ping Pong***, ***Delay Stereo***, ***Delay Sync (Stereo)***, ***Delay Tape Sync***, ***Reverb In Gate***, ***Reverb Large 2***, ***Reverb Large***, ***Reverb Medium***, ***Reverb Out Gate***, ***Reverb Small***, ***Sample Delay***

AIR Delay

This is a classic delay line effect with a variable feedback filter. Additional Ratio and Width parameters enable you to achieve a wide range of stereo delay effects.

Parameter	Value Range	Default Value
Time		
Sync Off	1 ms – 2.00 s	388 ms
Sync On	1/32 – 8/4	1/8D
Sync	Off, On	Off
Feedback	0–100%	40%
Mix	0–100% (dry–wet)	50%
Delay Ratio	50:100 – 100:50	100:100
Delay HPF	20.0 Hz – 1.0 kHz	20.0 Hz
Delay Width	0–100%	100%
Feedback Damp	1.0 – 20.0 kHz	20.0 kHz
Feedback Reso	0–100%	0%
Fdbk. Reso Freq	100 Hz – 10.0 kHz	1.0 kHz

AIR Diff Delay

This is a delay line effect that is synchronized to your session tempo and uses an adjustable amount of diffusion to emulate the dissipation of echoes in reverberant space.

Parameter	Value Range	Default Value
Time		
Sync Off:	1 – 1000 ms	161 ms
Sync On:	1/64 – 4/4 (including Triplet and Dotted variations)	1/16D
Sync	Off, On	On
Width	0–100%	100%
Mix	0–100% (dry–wet)	40%
Feedback	0–100%	50%
Fdbk. Diffusion	0–100%	40%
Fdbk. High Damp	0–100%	35%
Low Cut	20.0 Hz – 1.00 kHz	20.0 Hz
Pan	-100 – 0 – +100%	0%

AIR Multitap Delay

This effect is a versatile, creative delay plugin with a wide range of applications from subtle stereo delays to complex repeating patterns.

Parameter	Value Range	Default Value
Delay		
Sync On:	1/16 – 8/4	4/4
Sync Off:	0 ms – 4.00 s	2.25 s
Feedback	0–100%	50%
Mix	-100.0 – 0.0 dB	-50.0 dB
From/To	Varies	Tap 5 / Input
Sync	Off, On	On
Low Cut	20.0 Hz – 1.00 kHz	500 Hz
High Cut	1.00 kHz – 20.0 kHz	2.00 kHz
1–5	Off, On	On
Tap Delay	10.0 ms – 10.0 s	Varies
Pan	L100 – C – R100	Varies
Level	-Inf – 0.0 dB	0.0 dB

AIR Non-Lin Reverb

This is a spatial effect, designed to produce synthetic, processed ambience with special gated and reversed reverb effects.

Parameter	Value Range	Default Value
Pre-Delay	0–250 ms	0 ms
Dry Delay	0–1500 ms	0 ms
Time	0–1000 ms	250 ms
Mix	0–100% (dry–wet)	50%
Diffusion	0–100%	100%
Width	0–100%	50%
Shape	Gated, Reverse	Gated
Low-Cut	20.0 Hz–1.00 kHz	141 Hz
High-Cut	1.00–20.0 kHz	9.46 kHz

AIR Reverb

This is a spatial effect, with a wide range of reverb types to add space or room to your audio signal.

Tab	Parameter	Values	Default Value
Reverb	Pre-Delay	0–250 ms	0 ms
	Room Size	0–100%	100%
	Time	0.4 ms – +inf s	1.9 s
	Mix	0–100%	50%
Early Reflection	Type	Off, Booth, Club, Room, Small Chamber, Medium Chamber, Large Chamber, Small Studio, Large Studio, Scoring Stage, Philharmonic, Concert Hall, Church, Opera House, Vintage 1, Vintage 2	Off
	Length	0–100%	100%
	ER / Tail Mix	0–100%	50%
Reverb	Input Width	0–100%	0%
	Output Width	0–100%	0%
	Delay	0–250 ms	0 ms
Room	Ambience	0–100%	0%
	Density	0–100%	100%
Hi/Lo Freq			
Hi Freq	Time	-100 – 0 – 100%	0%
	Freq	2.00 – 20.0 kHz	6.32 kHz
	Cut	1.0 – 20.0 kHz	9.46 kHz
Lo Freq	Time	-100 – 0 – 100%	0%
	Freq	20.0 Hz – 2.00 kHz	200 Hz
	Cut	1 – 1000 Hz	1 Hz

AIR Spring Reverb

This is a spatial effect, designed to emulate the sound of a spring reverb tank.

Parameter	Value Range	Default Value
Pre-Delay	0–250 ms	3 ms
Time	1.0–10.0 s	4.0 s
Mix	0–100 (dry–wet)	50%
Diffusion	0–100%	100%
Width	0–100%	0%
Low Cut	20.0 Hz –1.0 kHz	141 Hz

Delay Analog Sync

Analog Delay is similar to Mono Delay, except that it's designed to emulate an analog "Bucket Brigade"-style delay. This delay has a unique character to it that gives a warmer sound by adding subtle inaccuracies in phase and timing.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	1 bar – 1/16 triplets	1/4
Feedback	0–100	50
Ramp	0–100	50

Delay Analog

Analog Delay is similar to the Mono Delay, except that it's designed to emulate an analog "Bucket Brigade"-style delay. This delay has a unique character to it that gives a warmer sound by adding subtle inaccuracies in phase and timing.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	100
Feedback	0–100	25

Delay HP

HP Delay is identical to the Mono Delay, but it uses a resonant high-pass filter in the delay line.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	100
Feedback	0–100	50
Cutoff	0–100	33
Resonance	0–100	33

Delay LP

LP Delay is identical to the Mono Delay, but it uses a resonant low-pass filter in the delay line.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	500
Feedback	0–100	50
Cutoff	0–100	50
Resonance	0–100	20

Delay Mono Sync

This mono effect delays the original signal for a specified period of time (synced to the project tempo) and plays it back over an adjustable period of time.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	1 bar – 1/16 triplets	1/4
Feedback	0–100	50
Damping	0–100	100

Delay Mono

This mono effect delays the original signal for a specified period of time and plays it back over an adjustable period of time.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	100
Feedback	0–100	25
Damping	0–100	100

Delay Multi-Tap

This delay is a mono delay which has three delay generators with independently adjustable delay times and stereo position.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time 1	2–2000 ms	100
Time 2	2–2000 ms	100
Time 3	2–2000 ms	100
Feedback	0–100	25
Pan 1	0–100	50
Pan 2	0–100	50
Pan 3	0–100	50
Damping	0–100	100
Gain 1	0–100	25
Gain 2	0–100	25
Gain 3	0–100	25

Delay Ping Pong

This stereo delay allows you to set different delay times for its left and right repeats.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time, Left	2–2000 ms	100
Time, Right	2–2000 ms	100
Feedback	0–100	25
Damping	0–100	100

Delay Stereo

Stereo Delay operates similarly to Mono Delay but in true stereo.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	100
Feedback	0–100	25
Damping	0–100	100

Delay Sync (Stereo)

This effect is the same as Delay Stereo but is synced to the project tempo.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	1 bar – 1/16 triplets	1/4
Feedback	0–100	50
Damping	0–100	100

Delay Tape Sync

Tape Delay emulates a delay system using an analog tape loop and a series of tape heads to produce an echo effect. This delay type yields a very distinct echo sound often heard in reggae and dub-style music.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	1 bar – 1/16 triplets	1/4
Feedback	0–100	50
Ramp	0–100	50
Head 1	0–100	100
Head 2	0–100	0
Head 3	0–100	0
Head 4	0–100	0
Tone	0–100	50
Spread	0–100	50
Wow & Flutter	0–100	50

Reverb In Gate

This is a hall reverb with an additional control. The reverb effect is cut off when the input drops below the level set in the **Gate In** parameter.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	75
Lo-Cut	0–100	10
Hi-Cut	0–100	10
Gate In	0–100	0

Reverb Large 2

This is a less CPU-intensive spatial effect, emulating the sound of a large hall.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	75
Lo-Cut	0–100	10
Hi-Cut	0–100	10

Reverb Large

This is a spatial effect, designed to emulate the sound of a large hall.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	75
Lo-Cut	0–100	10
Hi-Cut	0–100	10

Reverb Medium

This is a spatial effect, designed to emulate a medium room.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	50
Lo-Cut	0–100	15
Hi-Cut	0–100	10

Reverb Out Gate

This is a hall reverb that has an additional control. The reverb effect is cut off when the output drops below the level set in the **Gate Out** parameter.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	75
Lo-Cut	0–100	10
Hi-Cut	0–100	10
Gate Out	0–100	0

Reverb Small

This is a spatial effect, designed to emulate a small room.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	50
Lo-Cut	0–100	15
Hi-Cut	0–100	10

Sample Delay

This effect is a utility delay plugin that can delay the left and right channels by different, small amounts to loosen percussion elements or add stereo width.

Parameter	Value Range	Default Value
Left / Right	0–11025 Samples or 0.0–250.0 ms	0 Samples or 0.0 ms
Samples / MS	Samples, MS	Samples
Link	Off, On	Off

Dynamics

Options: ***AIR Channel Strip***, ***AIR Compressor***, ***AIR Limiter***, ***AIR Maximizer***, ***AIR Noise Gate***, ***AIR Pumper***, ***AIR Transient***, ***Bus Compressor***, ***Compressor Opto***, ***Compressor VCA***, ***Compressor Vintage***, ***Mother Ducker Input***, ***Mother Ducker***, ***Transient Shaper***

AIR Channel Strip

This specially-designed plugin combines multiple effects with a fast interface. The EQ section provides a highpass filter, low and high shelves, and a fully parametric mid-band. For dynamics, the AIR Compressor and Gate algorithms are perfect for achieving hard-hitting drum sounds.

Tab	Parameter	Value Range	Default Value
	EQ Enable	Enabled, Bypass	Enabled
	Gate Enable	Enabled, Bypass	Enabled
	Comp Enable	Enabled, Bypass	Enabled
	Output	-Inf – +24.00 dB	0.00 dB
EQ	High Shelf Gain	-12.0 – +12.0 dB	0.0 dB
	High Shelf Freq	1.20 – 20.0 kHz	6.00 kHz
	Mid Gain	-18.0 – +18.0 dB	0.0 dB
	Mid Freq	40.0 Hz – 16.0 kHz	247 Hz
	Mid Q	0.40 – 10.00	1.00
	Low Shelf Gain	-12.0 – +12.0 dB	0.0 dB
	Low Shelf Freq	20.0 Hz – 1.00 kHz	100 Hz
	HP Filter	0 – 1000 Hz	0 Hz
Gate/Comp	Gate Thresh	-120.0 – 0.0 dB	-120.0 dB
	Gate Depth	0 – -120.0 dB	-120.0 dB
	Gate Attack	0.01 – 1000.00 ms	0.18 ms
	Gate Release	1.00 – 3000.00 ms	7.40 ms
	Comp Thresh	0.0 – -60.0 dB	0.0 dB
	Comp Ratio	1.0:1 – 100.0:1	3.9:1
	Comp Attack	100 us – 300 ms	5.48 ms
	Comp Release	10.0 ms – 4.00 s	200 ms

AIR Compressor

This basic compressor effect changes the dynamic range of a signal by automatically reducing its gain if it exceeds a certain level (the threshold).

Parameter	Value Range	Default Value
Threshold	-60.0 – 0 dB	-48.0 dB
Ratio	1.0:1 – 100.0:1	3.9:1
Output	0.0 – 30.0 dB	15.0 dB
Mix	0–100% (dry-wet)	100%
Knee	0–100%	50%
Attack	100 us – 300 ms	5.48 ms
Release	10.0 ms – 4.00 s	200 ms

AIR Limiter

This is a lookahead limiter perfect for mastering or mixing.

Parameter	Value Range	Default Value
Gain	-12.0 – 36.0 dB	0.0 dB
Ceiling	-24.0 – 0.0 dB	0.0 dB
Look Ahead	0.0 – 20.0 ms	0.0 ms
Release	10.0 ms – 10.0 s	316 ms
LF Mono	10.0 Hz – 1.00 kHz	10.0 Hz

AIR Maximizer

This effect is a limiter optimized for professional mastering.

Parameter	Value Range	Default Value
Threshold	-40.0 – 0.0 dB	-20.0 dB
Ceiling	-20.0 – 0.0 dB FS	-5.0 dB FS
Look Ahead	0.0 – 20.0 ms	0.0 ms
Knee	Hard, Soft	Hard
Release	10.0 ms – 10.0 s	316 ms
LF Mono	10.0 Hz – 1.00 kHz	10.0 Hz

AIR Noise Gate

This effect is similar to a compressor, but instead of attenuating audio signal that rises above a threshold, a noise gate attenuates audio signal that falls below a threshold by a set amount. This can help reduce background noise in your audio signal.

Parameter	Value Range	Default Value
Threshold	-120.0 – 0.0 dB	-48.0 dB
Depth	0 dB – -120.0 dB	-120 dB
Denoise Filter	Off, On	Off
Denoise Thresh	-120.0 – 0.0 dB	-60.0 dB
Attack	0.01 – 1000.00 ms	0.18 ms
Hold	0 – 1000 ms	250 ms
Release	1.00 – 3000.00 ms	7.40 ms

AIR Pumper

This effect creates a rhythmic pumping effect, similar to that of sidechain compression.

Parameter	Value Range	Default Value
Depth	0–100%	80%
Speed	Bar, 1/2 – 1/32T	1/4
Release Shape	0–100%	10%
Trigger Offset	-100.0 – +100.0 ms	0.0 ms
Attack	0–100%	5%
Hold	0–100%	10%
Release	0–100%	60%

AIR Transient

This effect is used to enhance or soften the Attack and Release phases of audio material.

Parameter	Value Range	Default Value
Attack	-100 – 0 – +100%	0%
Attack Shape	0–100%	50%
Sustain	-100 – 0 – +100%	0%
Output	-20.0 – +20.0 dB	0.0 dB
Limit	Off, On	On

Bus Compressor

This is the most transparent compressor, able to perform substantial volume adjustments without artifacts.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Attack	0–100	50
Release	0–100	50
Threshold	-50 – 0 dB	0
Ratio	1–20	1
Oldskool	Off, On	Off
Output	-6 – 24 dB	0

Compressor Opto

The Opto Compressor is modeled after a vintage compressor type using an optical circuit to control the volume reduction of the input signal. These compressors are usually associated with soft and unobtrusive attack and release characteristics.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Input	-6 – 18 dB	0
Attack	0–100	50
Release	0–100	50
Threshold	-50 – 0 dB	0
Ratio	1–20	1
Knee	1–100	1
Output	-6 – 24 dB	0

Compressor VCA

This compressor is more modern-sounding, with a slightly more transparent sound. A VCA Compressor tends to have quicker attack and release times than an Opto Compressor.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Input	-6 – 18 dB	0
Attack	0–100	50
Release	0–100	50
Threshold	-50 – 0 dB	0
Ratio	1–20	1
Knee	1–100	1
Output	-6 – 24 dB	0

Compressor Vintage

This compressor has a sound similar to classic tube compressors, with their gentle yet pumping response and a dash of tube saturation.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Input	-6 – 18 dB	0
Attack	0–100	50
Release	0–100	50
Threshold	-50 – 0 dB	0
Ratio	1–20	1
Knee	1–100	1
Output	-6 – 24 dB	0

Mother Ducker Input

Add this effect as an insert to the track you want to use as a trigger input, such as a kick drum track.

Parameter	Value Range	Default Value
To	Bus 1–8	Bus 1

Mother Ducker

Add this effect as an insert to the track you want to have the ducking effect applied to. Use the meters to monitor the level from your trigger input and tweak the Threshold and Ratio parameters to adjust the amount of ducking. The Attack and Release parameters can be used to sculpt the envelope of the gain reduction to achieve exactly the pumping effect you are after. Mother Ducker has eight internal buses so you can set up multiple channel strips with ducking effects from different sources.

Parameter	Value Range	Default Value
Ratio	1.00:1 – 60.00:1	6.00:1
Knee	0.000 – 6.000 dB	0.000 dB
Attack	1.0 – 1000.0 ms	10.0 ms
Release	1.0 – 1000.0 ms	100.0 ms
Threshold	-100.000 – 0.000 dB	-6.021 dB
Gain	-100.000 – +12.000 dB	-0.000 dB
Auto Gain	On, Off	On
From	Bus 1–8	Bus 1

Transient Shaper

A transient shaper can be used to enhance or soften the Attack and Release phases of audio material.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Attack	0–100	50
Release	0–100	50
Output	0–100	50

EQ/Filter

Options: ***AIR Enhancer***, ***AIR Filter Gate***, ***AIR Filter***, ***AIR Kill EQ***, ***AIR Para EQ***, ***AIR Vintage Filter***, ***HP Filter Sweep***, ***HP Filter Sync***, ***HP Filter***, ***HP Shelving Filter***, ***LP Filter Sweep***, ***LP Filter Sync***, ***LP Filter***, ***LP Shelving Filter***, ***PEQ 2-Band, 2-Shelf***, ***PEQ 4-Band***

AIR Enhancer

This effect enhances the low and high broadband frequencies of the audio signal.

Parameter	Value Range	Default Value
High Gain	0.0 – 12.0 dB	0.0 dB
Low Gain	0.0 – 12.0 dB	0.0 dB
Output	- Inf – 0.0 dB	0.0 dB
Freq. High	1.0 – 10.0 kHz	3.16 kHz
Freq. Low	40.0 – 640 Hz	160 Hz
Harmonics	0.0 – 12.0 dB	0.0 dB
Phase	+ (positive), - (negative)	+

AIR Filter Gate

This effect chops your audio signal into rhythmic patterns with variable filtering, amplitude and panning.

Parameter	Value Range	Default Value
Pattern	Straight, Pulse, Pumper, Marching, Fader, Offbeats, Off+Pan, L/R Pan, LL/RR Pan, Slow Pan, Rand Pan, Shorter, Longer, Reverse, Random, Keyed 1–2, Half Time, 12-Step, Ducked, Trance 1–6, Tech 1–6	Straight
Rate	1/2–1/32, including Dotted and Triplet	1/16
Swing	50.0–66.7%	50.0%
Mix	0–100%	100%
Filter Mode	Off, LP, BP, HP, Phaser	LP
Filter Cutoff	-100 – 0 – 100%	0%
Filter Reso	-100 – 0 – 100%	0%
Gate Attack	0–100%	25%
Gate Hold	0–100%	50%
Gate Release	0–100%	25%
Mod LFO Wave	Random; 2–12, 16, 24, 32, 48, 64, 96, 128, 192, 256 Steps	Random
Mod Env	-100 – 0 – 100%	0%
Mod LFO	0–100%	0%

AIR Filter

This effect applies a filter to the audio signal and then applies selectable saturation or reduction to the filtered signal.

Parameter	Value Range	Default Value
Cutoff Freq	55.0 Hz – 20.0 kHz	20.0 kHz
Reso Factor	0.7 – 20.0	1.0
Type	LP4–1, BP2, BP4, HP2_LP1, HP3_LP1, HP4–1, BR2, BR4, BR2_LP1, BR2_LP2, HP1_BR2, BP2_BR2, HP1_LP2, HP1_LP3, AP3, AP3_LP1, HP1_AP3	LP4
Output Gain	-Inf dB – 0.0 dB	0.0 dB
Saturation Type	Resample, Bit Crush, Rectify, Hard Clip, Distort, Overdrive	Overdrive
Saturation Drive	0.0 – 12.0 dB	0.0 dB
Saturation Mode	DCF, CVF	DCF

AIR Kill EQ

This effect can zap out the Low, Mid or High broadband frequency from an audio signal.

Parameter	Value Range	Default Value
High	Thru, Kill	Thru
Mid	Thru, Kill	Thru
Low	Thru, Kill	Thru
Output	-20.0 – +20.0 dB	0.0 dB
High Gain	-Inf – +12.0 dB	0.0 dB
Mid Gain	-Inf – +12.0 dB	0.0 dB
Low Gain	-Inf – +12.0 dB	0.0 dB
High Freq.	500 Hz – 8.00 kHz	2.00 kHz
Offset	-100 – +100%	0%
Low Freq.	50.0 – 800 Hz	200 Hz

AIR Para EQ

This effect is a powerful four-band parametric equalizer with four independent EQ ranges, adjustable Low and High EQ filter types, and dedicated Low Cut and High Cut.

Parameter	Value Range	Default Value
High Freq	1.2 – 20.0 kHz	6.00 kHz
High Q		
Shelf	0.40 – 2.00	1.00
Bell	0.40 – 10.00	1.00
High Gain		
Shelf	-12.0 – +12.0 dB	0.0 dB
Bell	-18.0 – 18.0 dB	0.0 dB
High Type	Shelf, Bell	Shelf
High Out/In	Out, In	
High Mid Freq	120 Hz – 16.0 kHz	2.00 kHz
High Mid Q	0.40 – 10.00	1.00
High Mid Gain	-18.0 – 18.0 dB	0.0 dB
High Mid Out/In	Out, In	
Low Mid Freq	40.0 Hz – 16.00 kHz	247 Hz
Low Mid Q	0.40 – 10.00	1.00
Low Mid Gain	-18.0 – 18.0 dB	0.0 dB
Low Mid Out/In	Out, In	
Low Freq	20.0 Hz – 1.00 kHz	100 Hz
Low Q		
Shelf	0.40 – 2.00	1.00
Bell	0.40 – 10.00	1.00
Low Gain		
Shelf	-12.0 – +12.0 dB	0.0 dB
Bell	-18.0 – 18.0 dB	0.0 dB
Low Type	Shelf, Bell	Shelf
Low Out/In	Out, In	
Output	-20.0 – +20.0 dB	0.0 dB
High Cut Freq	120 Hz – 20.0 kHz	20.0 kHz
High Cut Type	6, 12, 18, 24 dB	12 dB
High Cut Out/In	Out, In	
Low Cut Freq	20.0 Hz – 8.00 kHz	100 Hz
Low Cut Type	6, 12, 18, 24 dB	12 dB
Low Cut Out/In	Out, In	

AIR Vintage Filter

This effect is a powerful filter plugin for bringing those classic analog filter sounds to your tracks, perfect for synths, guitars plus loads more.

Parameter	Value Range	Default Value
Cutoff	20.0 Hz – 20.0 kHz	878 Hz
Resonance	0–100%	0%
Fat	0–200%	200%
Mode	LP24, LP18, LP12, BP, HP	LP18
Attack	10.0 ms – 10 s	10.0 ms
Release	10.0 ms – 10 s	966 ms
Env. Depth	-100 – 0 – +100%	+37%
Sync	Off, On	On
Rate		
Sync On:	16 – 8/4	4T
Sync Off:	0.01–10.0 Hz	2.54 Hz
LFO Depth	0–100%	61%
Output	–Inf dB — 0.0 dB	0.0 dB

HP Filter Sweep

This effect is a high-pass filter with its cutoff frequency modulated by an LFO.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	80
Low Frequency	0–100	50
High Frequency	0–100	100
Resonance	0–100	33
Rate	0–100	10

HP Filter Sync

This effect is a high-pass filter with its cutoff frequency modulated by an LFO.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Low Frequency	0–100	0
High Frequency	0–100	100
Resonance	0–100	50
Rate	8 bars – 1/32	1/4

HP Filter

This effect is a static filter without modulation.

Parameter	Value Range	Default Value
Frequency	10–19999 Hz	1500
Resonance	0–100	0

HP Shelving Filter

This filter differs from the standard filter type, as it attenuates all frequencies after the cutoff point equally.

Parameter	Value Range	Default Value
Frequency	10–19999 Hz	1500
Resonance	0–100	0
Gain	-18.0 – 18.0 dB	0.0

LP Filter Sweep

This effect is a low-pass filter with its cutoff frequency modulated by an LFO.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	80
Low Frequency	0–100	0
High Frequency	0–100	100
Resonance	0–100	33
Rate	0–100	10

LP Filter Sync

This effect is a low-pass filter with its cutoff frequency modulated by an LFO.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Low Frequency	0–100	0
High Frequency	0–100	100
Resonance	0–100	50
Rate	8 bars – 1/32	1/4

LP Filter

This effect is a static filter without modulation.

Parameter	Value Range	Default Value
Frequency	10–19999 Hz	1500
Resonance	0–100	0

LP Shelving Filter

This filter differs from the standard filter type, as it attenuates all frequencies after the cutoff point equally.

Parameter	Value Range	Default Value
Frequency	10–19999 Hz	1500
Resonance	0–100	0
Gain	-18.0 – 18.0 dB	0.0

PEQ 2-Band, 2-Shelf

This effect is a combination of one two-band parametric equalizer and two shelving filters.

Parameter	Value Range	Default Value
Low Frequency	22–1000 Hz	220
Frequency 1	82–3900 Hz	820
Frequency 2	220–10000 Hz	2200
High Frequency	560–19999 Hz	5600
Q1	0–100	0
Q2	0–100	0
Low Gain	-18.0 – 18.0 dB	0.0
Gain 1	-18.0 – 18.0 dB	0.0
Gain 2	-18.0 – 18.0 dB	0.0
High Gain	-18.0 – 18.0 dB	0.0

PEQ 4-Band

This effect is a powerful four-band parametric equalizer with four independent EQ ranges.

Parameter	Value Range	Default Value
Low Frequency	22–1000 Hz	220
Frequency 1	82–3900 Hz	820
Frequency 2	220–10000 Hz	2200
High Frequency	560–19999 Hz	5600
Q1	0–100	5
Q2	0–100	5
Q3	0–100	5
Q4	0–100	5
Gain 1	-18.0 – 18.0 dB	0.0
Gain 2	-18.0 – 18.0 dB	0.0
Gain 3	-18.0 – 18.0 dB	0.0
Gain 4	-18.0 – 18.0 dB	0.0

Harmonic

Options: ***AIR Amp Sim***, ***AIR Diode Clip***, ***AIR Distortion***, ***AIR Flavor***, ***AIR Freq Shift***, ***AIR Lo-Fi***, ***AIR Talk Box***, ***AIR Tube Drive***, ***Decimator***, ***Distortion Amp***, ***Distortion Custom***, ***Distortion Fuzz***, ***Distortion Grimey***, ***Distortion Overdrive***, ***Frequency Shifter***, ***Granulator***, ***Resampler***, ***TouchFX***, ***XYFX***

AIR Amp Sim

This effect simulates guitar and bass amplifiers with a wide range of available cabinet models and tone shaping options.

Parameter	Value Range	Default Value
Cab Model	D.I., Brit, 1x8”, 1x12”, 2x10”, 2x12”, 4x10”, 4x12”, 1x15” Bass, 4x10” Bass, Radio	4x10”
Drive	0.0–11.0	0.0
Mode	Mono, Stereo	Stereo
Output	-12.0 – 0.0 – +12.0 dB	0.0 dB
Soft Clip	0–100%	0%
Top Boost	0–100%	0%
Bias	0–100%	0%
Bass	-12.0 – 0.0 – +12.0 dB	-12.0 dB
Mid	-12.0 – 0.0 – +12.0 dB	0.0 dB
Mid Freq	250 Hz – 4.00 kHz	1.00 kHz
Treble	-12.0 – 0.0 – +12.0 dB	0.0 dB

AIR Diode Clip

This is a distortion effect that can be used for anything from adding subtle grit to drum breaks to aggressive distorted mayhem.

Parameter	Value Range	Default Value
Input HP	200 – 800 Hz	500 Hz
Env Speed	0–100%	50%
Output HP	1000 – 4000 Hz	2000 Hz
Output LP	1000 – 12000 Hz	6000 Hz
Wide	Off, On	Off
Solo	Off, On	Off
Oversampling	Off, On	On
Level	-inf – 0.0 – +12.0 dB	0.0 dB

AIR Distortion

This effect is a multi-type distortion that adds color to your audio signal with varying types and amounts of distortion.

Parameter	Value Range	Default Value
Mode	Hard, Soft, Wrap	Hard
Drive	0 – 60 dB	15 dB
Output	0–100%	100%
Mix	0–100% (dry-wet)	100%
Tone Pre-Shape	-100 – 0 – +100%	0%
Tone High Cut	1.00 – 20.0 kHz	20.0 kHz
Stereo	On, Off	Off
Clipping Thresh.	-20.0 – 0.0 dB FS	-10.0 dB FS
Clipping Edge	0–100%	0%

AIR Flavor

This effect applies EQ simulations of radios, phones, tape machines, and more to dramatically change the timbre of your sound.

Parameter	Value Range	Default Value
Timbre	Varies	Neutral
Timbre Depth	0–100%	100%
Vinyl Distortion	0–100%	0%
Vinyl Noise	0–100%	0%
Flutter	0–100%	0%
Monofy	0–100%	0%

AIR Freq Shift

This effect shifts the audio signal's individual frequencies for unique effects.

Parameter	Value Range	Default Value
Mode	Up, Down, Up & Down, Stereo	Up
Frequency	10.0 mHz – 10.0 kHz	316 mHz
Feedback	0–100%	0%
Mix	0–100% (dry–wet)	100%

AIR Lo-Fi

This effect is used to bit-crush, down-sample, clip, rectify and mangle an audio signal.

Tab	Parameter	Value Range	Default Value
Lo-Fi	Bit Depth	1.0 – 16.0 bit	16.0 bit
	Sample Rate	500 Hz – 50.0 kHz	50.0 kHz
	Mix	0–100%	100%
Distortion	Clip	0.0 – 40.0 dB	0.0 dB
	Rectify	0–100%	0%
	Noise Mod	0–100%	0%
Anti-Alias	Pre	0.125 – 2.000 Fs	0.5000 Fs
	Post	0.125 – 2.000 Fs	1.000 Fs
	Enable	On, Off	Off
LFO / Env	Wave	Sine, Tri, Saw, Square, Morse, S&H, Random	Sine
	Rate Sync Off: Sync On:	 0.01 – 10.0 Hz 8/4 – 16	 1.00 Hz 2T
	Sync	On, Off	Off
	Depth	-100 – 0 – 100%	0%
	Attack	0.1 – 10.0 s	0.5 s
	Release	0.1 – 10.0 s	0.5 s
	Depth	-100 – 0 – 100%	0%

AIR Talk Box

This effect adds voice-like resonances to audio signals.

Parameter	Value Range	Default Value
Vowel	OO, OU, AU, AH, AA, AE, EA, EE, EH, ER, UH, OH, OO	AH
Env Depth	-100 – 0 – +100%	0%
Formant	-12.00 – +12.00	0.00
Mix	0–100%	100%
LFO Wave	Sine, Tri, Saw, Square, S&H, Random	Sine
LFO Rate Sync Off: Sync On:	 0.01 – 10.0 Hz 8/4 – 16	 1.00 Hz 2T
LFO Sync	Off, On	Off
LFO Depth	-100 – 0 – +100%	0%
Env Thresh	-60.0 – 0.0 dB	-30.0 dB
Env Attack	0.1 – 10.0 s	0.5 s
Env Release	0.1 – 10.0 s	0.5 s

AIR Tube Drive

This effect is designed to reproduce the sound of an overdriven tube amplifier.

Parameter	Value Range	Default Value
Drive	0–100%	0%
Headroom	-30.0 – 0.0 dB	-15.0 dB
Saturation	0–100%	50%
Output	-20.0 – +20.0 dB	0.0 dB

Decimator

Decimator down-samples the incoming signal by removing bits from the digital signal. The difference between decimation and resampling is that Decimator does not use any filtering to mask or correct digital artifacts. The result is an effect ranging from mild to almost completely pure digital distortion, depending on the setting and the source material.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Decimate	0–100	0
Bit Reducer	4–32	32

Distortion Amp

This effect is designed to reproduce the sound of a tube amplifier at high volumes.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
Tone	0–100	50
Dynamics	0–100	50
Output	0–100	50

Distortion Custom

This effect is a highly customized distortion, capable of a wide range of useable sounds.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
+Soft	5–75	2
+Clip	5–50	25
–Soft	5–75	2
–Clip	5–50	25
Low	-18.0 – 18.0 dB	0.0
Mid	-18.0 – 18.0 dB	0.0
High	-18.0 – 18.0 dB	0.0
Output	-18.0 – 18.0 dB	50

Distortion Fuzz

This popular effect uses hard clipping of the audio signal, which, at extreme settings, can turn a standard waveform into a square wave, producing a “razor” effect.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
Output	0–100	50
Low	0–100	50
Low-Mid	0–100	50
High-Mid	0–100	50
High	0–100	50

Distortion Grimey

This is a unique distortion effect that distorts a frequency range in a selectable band.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
Grime	0–100	50
Center	0–100	50
Width	0–100	50
Resonance	0–100	50
Output	0–100	50

Distortion Overdrive

This distortion is designed to sound like a mildly distorting amplifier at medium volumes. It is the smoothest distortion type available.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
Tone	0–100	50
Output	0–100	50

Frequency Shifter

A frequency shifter changes the frequencies of an input signal by a fixed amount and alters the relationship of the original harmonics. This can produce a chorus-like effect as well as very crazy artificial timbres.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Frequency	-1000 – 1000	0
Asynchrony	0–1000	0
A Pan	0–100	0
B Pan	0–100	100
A Gain	0–100	75
B Gain	0–100	75

Granulator

This effect turns your incoming audio into small grains of sound that can be looped, pitch shifted, and manipulated in new and interesting ways.

Parameter	Value Range	Default Value
Grain Density	1.0–300.0 grains/sec	68.0 grains/sec
Grain Window	20.0–1000.0 ms	608.0 ms
Grain Length	10.0–200.0 ms	171.9 ms
Grain Feedback	-99.9 – 0.0 – 99.9%	0.0%
Trigger Randomization	0–100%	0.0%
Pitch Randomization	0–100%	0.0%
Pitch	-12.0 – 0.0 – 12.0 semitones	0.0 semitones
Fine	-50.0 – 0.0 – 50.0%	0.0%
Stereo	0–100%	0.0%
Mix	0–100%	34.6%
Freeze	Off, On	Off

Resampler

Resampler is similar to ***Decimator*** in that it removes bits from an incoming signal. The difference is that Resampler applies a complex suite of filters and anti-aliasing to attempt to retain the original sound quality. This is a method used by popular vintage samplers and sampling drum machines from the 1980s. Resampler can be used to achieve a “dirty” sound on drum loops, without the harshness of distortion.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	0
Decimate	0–100	0

TouchFX

TouchFX is specially designed for use with the **touch strip** controller on hardware such as MPC Key 61 and MPC Key 37, but can be used on any MPC hardware and controlled using the onscreen touch slider or an external MIDI device. The following effects can be selected:

Manual Filter

The touch strip controls a static, multi-mode filter without modulation.

Parameter	Value Range	Default Value
Cutoff	40.00–10000 Hz	2530.00 Hz
Resonance	0.00–1.00	0.50
Mode	LowPass, BandPass, HiPass	LowPass

Beat Sync Filter

The touch strip controls a multi-mode filter with its cutoff frequency modulated by an LFO, which can be synced to the project tempo.

Parameter	Value Range	Default Value
Cutoff	40.00–10000 Hz	34737.15 Hz
Resonance	0.00–1.00	0.50
Manual Speed	Off, 0.10–50.00 Hz	Off
Depth	0.0–100.0%	50.0%
Mode	LowPass, BandPass, HiPass	BandPass
Shape	Ramp Up, Ramp Down, Triangle, Sine, Square, Random1, Random2	Ramp Up
Sync Speed	Off, 2 Bars, 1 Bar, 1/2, 1/4, 1/4t, 1/8, 1/8t, 1/16, 1/16t, 1/32, 1/64	1/4

Beat Sync Delay

The touch strip controls repeated instances of the original signal that decay over a period of time that is synced to the project tempo.

Parameter	Value Range	Default Value
Cutoff	40.00–10000 Hz	3052.90 Hz
Resonance	0.00–1.00	0.50
Feedback	-99.00 – 0.00 – 99.00	49.50
Diffusion	0.00–1.00%	0.50%
Mode	LowPass, BandPass, HiPass	LowPass
Delay Time	1 Bar, 1/2, 1/4, 1/4t, 1/8, 1/8t, 1/16, 1/16t, 1/32, 1/64	1/4
Delay Mode	Normal, Cross-Feedback, Ping-Pong	Normal
Octave Mode	Off, On	Off

Beat Repeat

The touch strip controls an effect that will slice and repeat the source audio according to a tempo-synced beat value.

Parameter	Value Range	Default Value
Cutoff	40.00–10000 Hz	2530.00 Hz
Resonance	0.00–1.00	0.50
Mode	LowPass, BandPass, HiPass	LowPass
Delay Time	1/4, 1/4t, 1/8, 1/8t, 1/16, 1/16t, 1/32, 1/64	1/4
Reverse	Off, On	Off

Tape Stop

The touch strip controls a tape stop effect that emulates the slowing down of analog tape playback.

Parameter	Value Range	Default Value
Cutoff	40.00–10000 Hz	2530.00 Hz
Manual Stop Time	1.00 – 4.00 s	2.50 s
Sync Stop Time	Off, 1/4, 1/4t, 1/8, 1/8t, 1/16, 1/16t, 1/32, 1/64	Off

Phaser

The touch strip controls a phaser effect, created by multiple ganged all-pass filters to create “notches,” or sharp spikes, in the frequency spectrum. The frequencies of these all-pass filters can be modulated by an LFO to create a sweeping sound.

Parameter	Value Range	Default Value
Feedback	0.0–100.0%	100.0%
Manual Speed	0.10–50.00 Hz	Off
Sync Speed	Off, 2 Bars, 1 Bar, 1/2, 1/4, 1/4t, 1/8, 1/8t, 1/16, 1/16t, 1/32, 1/64	1/4

Comb Filter

The touch strip controls a comb filter, which creates “notches” in the frequency spectrum, similar to the phaser, by delaying the audio signal and adding it back to itself.

Parameter	Value Range	Default Value
Feedback	0.0–100.0%	100.0%
Manual Speed	0.10–50.00 Hz	Off
Sync Speed	Off, 2 Bars, 1 Bar, 1/2, 1/4, 1/4t, 1/8, 1/8t, 1/16, 1/16t, 1/32, 1/64	1/4

Washout

The touch strip controls an echo effect that is useful for creating transitions.

Parameter	Value Range	Default Value
Cutoff	40.00–9000 Hz	1160.00 Hz
Resonance	0.00–100.00%	0.50%
Feedback	0.00–100.00%	0.50%
Diffusion	0.0–10000.0%	5000.0%
Delay Time	1 Bar, 1/2, 1/4, 1/4t, 1/8, 1/8t, 1/16, 1/16t, 1/32, 1/64	1 Bar

Granulator

The touch strip controls a granulator effect, which turns your incoming audio into small grains of sound that can be looped, pitch-shifted, and manipulated.

Parameter	Value Range	Default Value
Density	1.0–300.0 grains/sec	150.0 grains/sec
Window Length	20.0–1000.0 ms	510.0 ms
Grain Length	10.0–200.0 ms	105.0 ms
Grain Feedback	-99.00 – 0.00 – 99.00	0.0%
Pitch	-12.0 – 0.0 – 12.0 semi	0.0 semi
Stereo Spread	0.0–100.0%	0.0%

Manual Flanger

The touch strip controls a flanger effect, a modulated delay that emulates the sound created when running two analog tape machines in parallel with a slight time misalignment.

Parameter	Value Range	Default Value
Frequency	100.00–4000.00 Hz	4000.00 Hz
Feedback	0.0–100.0%	100.0%

XYFX

See ***Operation > Modes > XYFX Mode*** for more information.

Modulation

Options: ***AIR Chorus***, ***AIR Ensemble***, ***AIR Flanger***, ***AIR Fuzz-Wah***, ***AIR Half Speed***, ***AIR Multi-Chorus***, ***AIR Phaser***, ***AIR Pitch Shifter***, ***AIR Stereo Width***, ***AIR Stutter***, ***Auto Wah***, ***Autopan Sync***, ***Autopan***, ***Chorus 2-Voice***, ***Chorus 4-Voice***, ***Flanger Sync***, ***Flanger***, ***Phaser 1***, ***Phaser 2***, ***Phaser Sync***, ***Tremolo Sync***, ***Tremolo***

AIR Chorus

This effect is a compact but powerful plugin for classic chorus warmth and depth.

Parameter	Value Range	Default Value
Rate	0.01 – 10.0 Hz	1.01 Hz
Depth	0.00 – 24.00 ms	7.10 ms
Mix	0–100%	50%
Feedback	0–100%	0%
Pre-Delay	0.00–24.00 ms	2.00 ms
Wave	Triangle, Sine	Sine
Offset	-180 – 0 – +180 deg.	+90 deg.

AIR Ensemble

This effect applies fluid, shimmering modulation effects to the audio signal.

Parameter	Value Range	Default Value
Rate	0.01 – 10.0 Hz	1.00 Hz
Depth	0.00 – 24.00 ms	6.00 ms
Width	0–100%	100%
Mix	0–100% (dry–wet)	75%
Mod. Delay	0.00 – 24.00 ms	0.00 ms
Mod. Shimmer	0–100%	50%

AIR Flanger

This effect applies a short, modulating delay to the audio signal.

Parameter	Value Range	Default Value
Rate	0.02 – 10.00 Hz	0.40 Hz
Depth	0–100%	50%
Feedback	0–100%	50%
Mix	0–100% (dry–wet)	50%
Headroom	-20.0 – 0.0 dB FS	-10.0 dB FS

AIR Fuzz Wah

This is a multi-effect that combines transistor-like distortion and wah.

Tab	Parameter	Value Range	Default Value
Fuzz-Wah	Mix	0–100% (dry–wet)	100%
	Order	Fuzz>Wah, Wah>Fuzz	Fuzz>Wah
	Fuzz Mix	0–100% (dry–wet)	100%
	Wah Mix	0–100% (dry–wet)	100%
	Fuzz Drive	0 – 40 dB	20 dB
	Fuzz Tone	1.00 – 10.0 kHz	3.16 kHz
	Fuzz Output	-Inf – 0.0 dB	0.0 dB
	Fuzz Enable	Off, On	Off
	Wah Pedal	0–100%	50%
	Wah Filter Mode	Lowpass, Bandpass, Highpass	Bandpass
	Min. Freq.	50.0 Hz – 4.00 kHz	428 Hz
	Max Freq.	50.0 Hz – 4.00 kHz	2.07 kHz
	Min. Resonance	0–100%	55%
	Max Resonance	0–100%	33%
	Wah Enable	Off, On	On
Modulation	Mode	LFO, Env	LFO
	Rate LFO Env	 8/4 – 16 0–100%	 4T 75%
	Depth	-100 – 0 – 100%	0%

AIR Half Speed

This effect can quickly create half-speed versions from any input material. Filter the processed audio using the built-in high pass and low pass filter to create dramatic transitions, and use the fade in and fade out parameters to create synchronized transitions between dry and effected audio.

Parameter	Value Range	Default Value
	Start, Stop	
Loop Length	1/16 – 4 Bars	1 Bar
Mode	*1.5, *2, *4	*2
Mix	0–100%	100%
Loop Fade	1.00 – 200 ms	4.90 ms
Fade In	Hard, Soft, 1/16–4 Bars	Hard
Fade Out	Hard, Soft, 1/16–4 Bars	Hard
HPF	Off, 20.0 Hz – 20.0 kHz	Off
LPF	20.0 Hz – 19.9 kHz, Off	Off
Band	Off, On	Off

AIR Multi-Chorus

This effect applies a thick, complex chorus effect to your audio signal.

Parameter	Value Range	Default Value
Rate	0.01 – 10.0 Hz	1.00 Hz
Depth	0.00 – 24.00 ms	6.00 ms
Voices	3, 4, 6	4
Mix	0–100% (dry–wet)	50%
Chorus Low Cut	20.0 Hz – 1.00 kHz	20.0 Hz
Chorus Width	0–100%	100%
Mod Wave	Sine, Tri	Tri
Mod Delay	0.00 – 24.00 ms	6.0 ms

AIR Phaser

This effect applies a phaser to your audio signal, for that wonderful "wooshy," "squishy" sound.

Parameter	Value Range	Default Value
Rate	0.10 – 10.00 Hz	1.00 Hz
Depth	0–100%	50%
Feedback	0–100%	0%
Mix	0–100% (dry–wet)	50%
Phaser Model	Vibe, Stone, Ninety, Tron,	Ninety
Offset		
Phase	-180 – +180 deg.	0 deg.
Rate	25–400%	100%
Type	Phase, Rate	Phase

AIR Pitch Shifter

This effect alters the pitch of the audio signal and can be adjusted based on the source or style of the signal.

Parameter	Value Range	Default Value
Mode	Vocal, Bass, Beats, Chords, Textures	Vocal
Shift	-24.0 – 0 – 24.0	0.0
Mix	0–100%	100%

AIR Stereo Width

This effect creates a wider stereo presence in an audio signal.

Parameter	Value Range	Default Value
Width	0–200%	100%
Delay	0.0 – 8.0 ms	0.0 ms
Level Trim	-Inf – 0.0 – +12.0 dB	0.0 dB
Pan Trim	L100 – <C> – R100	<C>
High	0–200%	100%
Mid	0–200%	100%
Low	0–200%	100%

AIR Stutter

This effect creates mind-blowing glitch effects using a wide range of volume, pan and pitch stutter effects.

Parameter	Value Range	Default Value
Intervals	1/64 – ¼	1/16
Sync	Off, On	On
Steps	2–64	5
Step Length	0–100%	100%
Freeze	Off, On	Off
Decay	50.0 ms – 100 s	6.99 s
Volume	-12.0 – 0.0 – 6.0 dB	-1.2 dB
Mix	0–100%	100%
Pan Mod	0–100%	50%
Pitch Mod	-100 – 0 – +100%	0%

Auto Wah

This effect is a low-pass filter modulated by an envelope that yields a classic funky “wah-wah”- like sound. The envelope is triggered by the incoming signal’s amplitude. The amount of the envelope on the cutoff frequency is user-definable.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Resonance	0–100	75
Attack	0–100	30
Release	0–100	30
Center	0–100	50
Sensitivity	0–100	50

Autopan Sync

This effect uses an LFO (tempo-synced to your project) to move the incoming signal back and forth across the stereo field, creating a rotary effect.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	8 bars – 1/32	1/4

Autopan

This effect uses an LFO to move the incoming signal back and forth across the stereo field, creating a rotary effect.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10

Chorus 2-Voice

This effect uses an LFO to modulate the pitch and a delay of the input signal, which are then added to the dry signal. In small amounts, this creates the illusion of multiple voices playing at once. Turn up the **Feedback** and **Amount** for more pronounced “shimmering” and “watery” sounds.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Delay	0–100	20
Amount	0–100	80
Width	0–100	80
Feedback	0–100	50
Rate	0–100	10

Chorus 4-Voice

This effect is the same as Chorus 2-Voice, but adds additional voices for more pronounced modulation.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Delay	0–100	20
Amount	0–100	80
Width	0–100	80
Feedback	0–100	50
Rate	0–100	10

Flanger Sync

This effect is the same as Flanger, but syncs to your project tempo.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	8 bars – 1/16 triplets	1/4
Feedback	-100 – 100	0
Delay	0–100	20
Width	0–100	80

Flanger

A flanger is a modulated delay to emulate the sound created when running two analog tape machines in parallel with a slight time misalignment. Slow **Rate** settings can produce a “whooshing” jet engine sound, while faster rates result in more of a “warble.”

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10
Feedback	-100 – 100	0
Delay	0–100	20
Width	0–100	80

Phaser 1

This effect applies multiple ganged all-pass filters to create “notches,” or sharp spikes, in the frequency spectrum. The frequencies of these all-pass filters are usually modulated by an LFO to create a sweeping sound.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10

Phaser 2

This effect is a variation on Phaser 1.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10

Phaser Sync

This effect is similar to Phaser 1/Phaser 2, but the LFO is synced to the project tempo.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	1 bar – 1/16 triplets	1/4

Tremolo Sync

This effect uses an LFO (synced to project tempo) to increase and decrease the volume of the signal. Depending on the LFO shape, this can produce a smooth wave effect (sine wave) or a stuttering “on-off” effect (square wave).

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	1 bar – 1/16 triplets	1/4
Sine to Square	0–100 (sine–square)	0

Tremolo

This effect is the same as Tremolo sync, but the LFO is not synced to project tempo.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10
Sine to Square	0–100 (sine–square)	0

Vocal

Options: ***AIR Vocal Doubler***, ***AIR Vocal Harmonizer***, ***AIR Vocal Tuner***

AIR Vocal Doubler

This effect creates realistic vocal doubles to add width or thickness to a vocal line.

Parameter	Value Range	Default Value
Voices	1–8	4
Stereo Spread	0–100%	70%
Lead Volume	-Inf – +6.0 dB	0.0 dB
Doubler Volume	-Inf – +6.0 dB	0.0 dB
Pitch	+/- 0–250%	+/- 38%
Pitch Speed	0–100%	75%
Timing	0–800 ms	63 ms

AIR Vocal Harmonizer

This effect can create up to four-part realistic vocal harmonies and complex doubling effects. Each vocal part has its own level, delay, formant, mode, and interval parameters.

Parameter	Value Range	Default Value
Key	A–G#	C
Scale	Major, Minor, Harm Minor, Melo Minor, Dorian, Phrygian, Lydian, Mixo, Locrian, Chromatic, Penta, Maj Triad, Min Triad, Root	Major
Lead Volume	-Inf – 0.0 dB	0.0 dB
Harmony Volume	-Inf – 0.0 dB	-2.5 dB
Timing	0–100%	42%
Tuning	0–100%	14%
Smooth	5–200 ms	8 ms
Voice Range	Very Low, Low, Mid, High, Very High	Mid
Root Mode Split	A–G#	E
Reference	420.0–460.0 Hz	440.0 Hz
Delay Sync	Off, On	On
Harmony 1–4	Off, On	1 On

AIR Vocal Tuner

This effect applies pitch correction for natural sounding or hard-tuned vocal effects.

Parameter	Value Range	Default Value
Detection	Unworried, Default, Selective, Picky, Blind	Default
Voice Range	Very Low, Low, Mid, High, Very High	Mid
Key	A–G#	A
Scale	Major, Minor, Harm Minor, Melo Minor, Dorian, Phrygian, Lydian, Mixo, Locrian, Chromatic, Penta, Maj Triad, Min Triad, Root	Minor
Retune Time	1–1000 ms	32 ms
Reference	420.0–460.0 Hz	440.0 Hz

Plugins

Plugins included with your MPC purchase are described below. For plugins purchases separately for use with MPC, refer to the plugin's own User Guide.

Bassline

The AIR Bassline plugin emulates the sound of classic mono synths, with a contemporary twist.

Osc / Filter / Envelope

Use this tab to adjust the settings for the oscillators, as well as their filter and envelope settings.

Parameter		Description	Value Range
Oscillator	Waveform	Continuously variable waveshape for the oscillator.	Saw Octave, Saw, Square, Sine
	Sub-Octave	Amount of sub-octave oscillator.	0–100%
	Fifth	Amount of fifth-oscillator.	0–100%
	Start Phase	Position of the waveform when a note is triggered.	Free, 0 degr., 180 degr.
	Glide Time	Amount of time to slide from the pitch of one note to the next note played.	10.0 ms – 2.00 s
	Boost	Boosts the signal of the oscillator.	0.0 dB – 48.0 dB
	Boost Freq.	Center frequency of the boost.	* 1.0 – * 240.0
	Boost Envelope	Amount of effect of the envelope on the Boost section. Adjust **Gain** to control the amount of boost. Adjust **Frequency** to control the width of the boosted frequency.	Gain 100–0%, Off, Frequency 0–100%
Filter	LP Cutoff	Cutoff frequency for the low-pass filter.	20.0 Hz – 20.0 kHz
	Reso	Resonance of the filter.	0–100%
	Filter Env	Envelope of the filter. At negative values, decreases the cutoff value based on the filter decay value. At positive values, increases the cutoff value based on the filter decay value.	-100% – 0 – 100%
	HP Cutoff	Cutoff frequency for the high-pass filter.	10.0 Hz – 500 Hz
Envelope	Amp Attack	Length of time for the note to reach full volume.	100–0% Soft to 0–100% Hard
	Amp Decay	Length of time for the note to reach the sustained volume.	0–100%
	Filter Decay	Length of time for the filter to reset after being released.	0–100%
	Pitch Mod	Amount of pitch modulation applied to the envelope.	0–100%

Velocity / Global / Chorus

Use this tab to adjust the Velocity Control settings, and Global volume. You can also apply and adjust the settings for the built-in Chorus effect.

Parameter		Description	Value Range
Velocity	Amp Control	The amount of effect velocity has on amplitude control.	0–100%
	Filter Control	The amount of effect velocity has on filter control.	0–100%
	Boost Control	The amount of effect velocity has on boost control.	0–100%
	Env Retrigger	Sets whether the envelope will retrigger when a note is played while another note is being held.	Off, On
Global	Global Volume	Sets the volume level.	-inf dB – +6.0 dB
	Drive Type	Choose one of two drive algorithms.	Overdrive, Clip
	Drive Amount	Amount of drive applied.	0–100%
	Bend Range	Number of semitones up or down controlled by MIDI pitch bend messages	0–12
Chorus	Rate	Modulation speed of the chorus effect.	0.40 Hz – 3.20 kHz
	Depth	Modulation depth of the chorus effect.	0–100%
	Mix	Wet/dry amount of the chorus effect.	0–100%
	On/Off	Enables or disables the effect.	Off, On

Delay

Use this tab to apply and adjust the settings for the built-in delay effect.

Parameter	Description	Value Range
Time	Length of time of the delayed signal. When **Sync** is set to **Free:** When **Sync** is set to **Sync:**	 1 ms – 2.00 s 1/32 – 8/4
Sync	Set to **Free** to adjust **Time** by milliseconds, or set to **Sync** to match the Delay **Time** to the **Global Tempo**.	Free, Sync
Mix	Wet/dry amount of the delay effect.	0–100%
Feedback	Amount of signal fed back into the delay line.	0–100%
Damp	Center frequency of where the delay signal will be dampened.	1.00 – 20.0 kHz
Reso	Amount of resonance of the feedback signal.	0–100%
Reso Freq	Center frequency for feedback resonance.	100 Hz – 10.0 kHz
Ratio	Reduces the delay **Time** in either the **Left** or **Right** stereo field. This is useful for creating offset, panned delays.	L 50:100, R 50:100
HPF	Center frequency for delay signal high-pass filter.	20.0 Hz – 1.0 kHz
Width	Stereo width of delay signal. Higher values give wider stereo separation.	0–100%
On/Off	Enables or disables the effect.	Off, On

Compressor / Hype

Use this tab to apply and adjust the settings for the built-in Compressor and Hype effects.

Parameter		Description	Value Range
Compressor	Threshold	Signal level after which the compressor will be applied.	0.0 – -60. dB
	Ratio	Amount of compression applied.	1.0:1 – 100.0:1
	Output	Amount of additional output gain for the compressed signal.	0.0 – +30.0 dB
	Mix	Wet/dry mix of the compressor effect.	0–100%
	Knee	How gradually the compressor reacts as the threshold is reached. Lower values apply a "soft" knee (compression is applied more slowly as signal approaches the threshold), and higher values apply a "hard" knee (compression is immediately applied when the threshold is reached).	0–100%
	Attack	Length of time to apply the compression.	100 us – 300 ms
	Release	Length of time for compressed signal to return to original level.	10 ms – 4.00 s
	On/Off	Enables or disables the effect.	Off, On
Hype	High	Dampens or maximizes high end frequencies.	-100 – 0 – +100%
	Low	Dampens or maximizes low end frequencies.	-100 – 0 – +100%
	On/Off	Enables or disables the effect.	Off, On

Electric

The AIR Electric plugin emulates the sound of classic electric pianos.

While viewing any of the tabs listed below, you can quickly enable or disable the **Bell** and **Noise** sounds, as well as the built-in effects (**Tremolo**, **Tube**, **Chorus**, **Delay** and **Spring Reverb**).

When viewing a specific tab, you can enable or disable the sound or effect by pressing the circle in the upper-right corner of each section.

Pickup / Env

Use this tab to edit the settings for the emulated pickup and the sound envelope.

Parameter		Description	Value Range
Pickup	Type	Type of pickup emulated.	Pickup, 0–100% Electro-Static, 0–100% Electro-Magnetic
	Height	Height of the pickup to the tines.	0.0 – 5.0 mm
	Distance	Distance of the pickup to the tines.	0.1 – 10.0 mm
	Clip	Amount of clipping applied to the signal.	0–100%
	Keytrack	Ties the pickup parameters to the pitch being played. At higher values, the **Distance** is increased as the pitch is increased.	0–100%
Envelope	Attack	Length of time for the note to reach full volume.	100–0% Hard, 0–100% Soft
	Decay	Length of time for the note to reach the sustained volume.	100 ms – 20.0 s
	Release	Length of time for the note to become silent after being released.	100 ms – 5.0 s
	Peak Length	Length of time full volume is held before decaying.	3 – 50 ms
	Keytrack	Ties the envelope parameters to the pitch being played. At higher values, the envelope time is decreased as the pitch is increased.	0–100%

Bell / Noise

Use this tab to apply and adjust the settings for the Bell and Noise sounds.

Parameter		Description	Value Range
Bell	Tune	Pitch of the bell sound, in semitones above the root pitch.	0– 60 semitones
	Dry/PU	Mix of Dry versus Pickup signal for the bell sound.	-100% – 0% – +100%
	Volume	Level of the bell sound.	-inf dB – +6.0 dB
	Tune Keytrack	Ties the tuning of the bell sound to the pitches played.	0–100%
	Decay	How long it takes for the bell sound to dissipate	100 ms – 7.0 s
	Keytrack	Ties the amount of bell sound to the pitch being played. At negative values, the bell sound is increased as the pitch increases. At positive values, the bell sound is increased as the pitch decreases.	-100% – 0% – +100%
Noise	Freq	Center frequency of the noise effect	200 Hz – 16.0 kHz
	Random	Amount of randomization applied to the noise effect	0–100%
	Mix	Level of noise effect present	-inf dB – +6.0 dB
	Attack	Length of time for the noise effect to reach full level	1–50 ms
	Decay	Length of time for the noise effect to dissipate	100 ms – 3.00 s
	Keytrack	Ties the **Freq** to the pitch being played.	0–100%

Setup

Use this tab to adjust general settings for the plugin.

Parameter	Description	Value Range
Polyphony	Number of voices available.	1–16 Voices
Level	Overall level of the plugin.	-inf dB – +6.0 dB
Velo Level	Adjusts how much incoming velocity is applied.	0–100%
Velo Tone	Ties the incoming velocity to tone. At higher values, increased velocity increases tone brightness.	0–100%
Velo Attack	Ties the incoming velocity to the attack envelope. At higher values, low velocities feature longer attack times.	0–100%

Trem / Tube / Chorus

Use this tab to apply and adjust the settings for the built-in Tremolo, Tube (Over Drive), and Chorus effects.

Parameter		Description	Value Range
Tremolo	Rate	Modulation speed of the effect.	
		When **Sync** is set to **Free:**	0.25 – 13.00 Hz
		When **Sync** is set to **Sync:**	8/4 – 1/16
	Sync	Sync the Tremolo **Rate** to the **Global Tempo** or let it run **Free**.	Free, Sync
	Mode	Select **Pan** for stereo field modulation, or **Tremolo** for amplitude modulation.	Pan, Tremolo
	Depth	Amount of modulation applied.	0–100%
Tube	Drive	Amount of drive applied.	0–100%
	Headroom	Amount of gain reduction between the clean signal and the driven signal.	-30.0 – 0.0 dB
	Saturation	Amount of saturation applied.	0–100%
	Output	Output level of the tube driven signal.	-20.0 – 0.0 – +20.0 dB
Chorus	Rate	Modulation speed of the effect.	0.40 – 3.20 Hz
	Depth	Amount of pitch modulation of the effect.	0–100%
	Mix	Wet/dry amount of the chorus effect.	0–100%

Delay

Use this tab to apply and adjust the settings for the built-in Delay effect.

Parameter	Description	Value Range
Time	Amount of time between the dry signal and the delayed signal.	
	When **Sync** is set to **Free:**	1 ms – 2.00 s
	When **Sync** is set to **Sync:**	1/32 – 8/4
Sync	Sync the Delay **Time** to the **Global Tempo** or set to **Free** to adjust **Time** by milliseconds.	Free, Sync
Mix	Wet/dry amount of the delay effect.	0–100%
Feedback	Amount of signal fed back into the delay line.	0–100%
Damp	Center frequency of where the delay signal will be dampened.	1.00 – 20.0 kHz
Reso	Amount of resonance of the feedback signal.	0–100%
Reso Freq	Center frequency for feedback resonance.	100 Hz – 10.0 kHz
Ratio	Reduces the delay **Time** in either the **Left** or **Right** stereo field. This is useful for creating offset, panned delays.	L 50:100, R 50:100
HPF	Center frequency for delay signal high-pass filter.	20.0 Hz – 1.0 kHz
Width	Stereo width of delay signal. Higher values give wider stereo separation.	0–100%

Spring Reverb

Use this tab to apply and adjust the settings for the built-in Spring Reverb effect.

Parameter	Description	Value Range
Pre-Delay	Length of time between dry signal and reverberated signal.	0 ms – 250 ms
Time	Length of reverb tail.	1.0 – 10.0 s
Mix	Wet/dry amount of the reverb effect.	0–100%
Diffusion	Rate of increasing density of reverb reflections. At lower settings, the sound of individual reflections is more present. At higher settings, reflections are more uniform.	0–100%
Width	Stereo width of reverb signal. Higher values give wider stereo separation.	0–100%
Low Cut	Center frequency for reverb signal low-cut filter.	20.0 Hz – 1.00 kHz

Hype

The AIR Hype plugin is a modern style dual-oscillator synthesizer that includes a wide variety of built-in effects for endless combinations of sound, as well as convenient macro controls for lightning-fast adjustments.

Macro

Use this tab to adjust the macro settings for the plugin. You can access the Effect on/off switches in all tabs.

Parameter	Description	Value Range
Macros	These six macro controls are unique to each preset.	Varies
Cutoff	Amount of filter cutoff applied.	0–100%
Reso	Amount of filter resonance applied.	0–100%
Mod	Amount of modulation effect applied.	0–100%
Distortion	Amount of distortion effect applied.	0–100%
Delay	Amount of delay effect applied.	0–100%
Reverb	Amount of reverb effect applied.	0–100%
Pumper	Amount of pumper effect applied.	0–100%
Volume	Main output volume.	-inf – +6.0 dB

Filter / Amp

Use this tab to adjust the filter and amplitude envelope settings.

Parameter		Description	Value Range
Filter	Cutoff	Cutoff frequency for the filter.	0–100%
	Reso	Amount of resonance of the filter.	0–100%
Filter Envelope	Attack	Length of time for the filter to reach full level.	0–100%
	Decay	Length of time for the filter to reach sustain level.	0–100%
	Sustain	Length of time for the filter to hold sustain level.	0–100%
	Release	Length of time for the filter to dissipate when released.	0–100%
	Envelope Depth	Amount of Filter Envelope added to the filter cutoff.	0–100%
	Envelope Velocity	Amount of effect the note velocity has on the filter envelope.	0–100%
Amp	Spike	Applies additional velocity to the amplitude attack.	0–100%
	Spike Decay	Length of time for the Spike to decay.	0–100%
Amp Envelope	Attack	Length of time for the note to reach full level.	0–100%
	Decay	Length of time for the note to reach sustain level.	0–100%
	Sustain	Length of time for the note to hold sustain level.	0–100%
	Release	Length of time for the note to dissipate when released.	0–100%
	Fade	Amount added to the envelope sustain level.	0–100%
	Velocity	Amount of effect the note velocity has on the amplitude envelope.	0–100%

Effects 1

Use this tab to adjust the settings for the Low-Frequency Oscillator and Modulation, Distortion and Hype effects.

Parameter		Description	Value Range
LFO	Rate	Speed of the low frequency oscillator.	
		When **Sync** is set to **1st Note** or **Each Note**:	0.03 – 30.00 Hz
		When **Sync** is set to **Temp+Note** or **Tempo+Beat**:	8/4 – 1/64
	Sync	Enables or disables LFO sync, and sets how it is synced when enabled.	Off, 1st Note, Each Note, Tempo+Note, Tempo+Beat
	Depth	Amount of LFO modulation applied.	0–100%
Mod	Rate	Speed of modulation.	0.05 – 20.00 Hz
	Adjust	Length of time the wet signal is offset from the dry signal.	0.0 – 24.0 ms
	Depth	Amount of modulation applied.	0–100%
	Mix	Wet/dry mix of the modulation effect.	0–100%
Distortion	Drive	Amount of drive applied.	0–100%
	Bias	Emulates amount of voltage sent to a tube power-amp.	-100 – 0 – 100%
	Output	Output level of the distorted signal.	0–100%
	Mix	Wet/dry mix of the distortion effect.	0–100%
Hype	Low	Dampens or maximizes low end frequencies.	-12.0 – +12.0 dB
	Lo-Mid	Dampens or maximizes low-mid frequencies.	-20.0 – +20.0 dB
	Hi-Mid	Dampens or maximizes high-mid frequencies.	-20.0 – +20.0 dB
	High	Dampens or maximizes high end frequencies.	-12.0 – +12.0 dB

Effects 2

Use this tab to adjust the settings for the Delay, Reverb, Compressor, Pumper, and Limiter effects.

Parameter		Description	Value Range
Delay	Time	Amount of time between the dry signal and the delayed signal.	1/32 – 8/4
	Feedback	Amount of signal fed back into the delay line.	0–100%
	Freq	Adjusts the filter cutoff frequency of the delayed signal.	0–100%
	Mix	Wet/dry amount of the delay effect.	0–100%
	L/R	Reduces the delay **Time** in either the **Left** or **Right** stereo field. This is useful for creating offset, panned delays.	L 50:100 – R 100:50
Reverb	Pre-Delay	Length of time between dry signal and reverberated signal.	0.0 – 250.0 ms
	Time	Length of reverb tail.	0.0 – 30.0 s
	Mix	Wet/dry amount of the reverb effect.	0–100%
Compressor	Threshold	Signal level after which the compressor will be applied.	-30.0 – +10.0 dB
	Ratio	Amount of compression applied.	1.0:1 – 20.0:1
	Attack	Length of time to apply the compression.	0–100%
	Output	Amount of additional output gain for the compressed signal.	-20.0 – +20.0 dB
Pumper	Rate	Speed of the pumper effect.	Bar, 1/2 – 1/32T
	Depth	Amount of signal attenuation by the effect.	0–100%
	Release	Amount of time to release the effect.	0–100%
Limiter	Drive	Amount of drive added after the limiter effect.	0.0 – 32.0 dB

Setup

Use this tab to adjust the plugin setup parameters.

Parameter		Description	Value Range
Setup	Transpose	Transposition of the plugin, in semitones.	-36 – +36
	Tune	Fine tuning of the plugin, in cents.	-100 – +100
	Glide Time	Amount of time to slide from the pitch of one note to the next note played.	0 ms – 32 s
	Glide Mode	Enables or disables pitch gliding for all triggered notes or legato notes.	Off, Legato, On
	Mode	Sets the plugin to polyphonic or monophonic	Poly, Mono
	Del-Rev	Level of the delay and reverb signals.	-inf – +6.0 dB
	Volume	Overall level of the plugin.	-inf – +6.0 dB
MIDI Control			
Mod Wheel	Destination	Send Mod Wheel data to one of the following control destinations.	Pitch, Cutoff, Reso, Amp, Pan
	Depth	Amount of modulation applied. When **Destination** is set to **Pitch**: When **Destination** is set to **Cutoff**, **Reso**, **Amp** or **Pan:**	 -12.0 – +12.0 -100 – 0 – 100%
	LFO	Ties the modulation to the Control LFO.	Off, On
Aftertouch	Destination	Send Aftertouch data to one of the following control destinations.	Pitch, Cutoff, Reso, Amp, Pan
	Depth	Amount of modulation applied. When **Destination** is set to **Pitch**: When **Destination** is set to **Cutoff**, **Reso**, **Amp** or **Pan:**	0–100% -12.0 – +12.0 -100 – 0 – 100%
	LFO	Ties the modulation to the Control LFO.	Off, On
Control LFO	Sync	Enables or disables Control LFO sync, and sets how the Control LFO is synced when enabled.	Off, First Note, Each Note, BPM & Note, BPM & Beat
	Rate	Speed of modulation of the Control LFO. When **Sync** is set to **First Note** or **Each Note**: When **Sync** is set to **BPM & Note** or **BPM & Beat**:	 0.03 – 30.00 Hz 8/4 – 1/64
	Shape	Waveshape of the Control LFO.	Sine, Triangle, Sawtooth, Square, S&H Random, S&H Alternate, Random Drift, Slow Drift

TubeSynth

The AIR TubeSynth plugin emulates the sound of classic vintage anal
acclaimed AIR Vacuum Pro desktop synth plugin and also includes 5

Oscillator

Use this tab to adjust the settings for the two variable Oscillators and the Sub Oscillator.

Parameter		Description	Value Range
Oscillator 1	Octave	Coarse tuning of the oscillator by octaves. The **Wide** setting provides additional **Fine** tuning controls.	Wide, 32', 16', 8', 4', 2'
	Fine	Fine tuning of the oscillator by semitones. When **Octave** is set to **Wide**: When **Octave** is set to 32'–2':	 -70.00 – 0.00 – +70.00 -12.00 – 0.00 – +12.00
	Shape	Waveshape of Oscillator 1 (continuously variable)	Triangle, Saw, Square, Pulse
	F-Env➔Shape	Amount of Filter Envelope output subtracted from or added to the value defined by the Osc 1 **Shape** parameter.	-100 – 0 – +100%
	Quad	Enables or disables four-voice emulation for the oscillator.	Off, On
	Detune	Adjusts tuning of the additional **Quad** voices.	0–100%
Oscillator 2	Octave	Coarse tuning of the oscillator by octaves, all the way down to LFO speed.	LFO, 32', 16', 8', 4', 2'
	Fine	Fine tuning of the oscillator. When **Octave** is set to **LFO**: When **Octave** is set to 32'–2':	 0.01 – 20.00 Hz -12.00 – 0.00 – +12.00 semitones
	Shape	Waveshape of Oscillator 2 (continuously variable)	Noise, Saw, Square, Pulse
	F-Env➔Shape	Amount of Filter Envelope output subtracted from or added to the value defined by the Osc 2 **Shape** parameter.	-100 – 0 – +100%
	Sync	Enables of disables syncing of Oscillator 2 to Oscillator 1.	Off, On
	Micro Detune	Additional detuning of Oscillator 2.	0–100%
	Phase	Position of the waveshape when the sound is triggered.	0 – 360 degrees
Sub Oscillator	Shape	Waveshape of the sub oscillator (continuously variable).	Triangle, Saw, Square, Pulse

Mixer / Filter

Use this tab to control EQ for Oscillator 2, set the levels of the oscillators and effects, and edit the low-pass filter.

Parameter		Description	Value Range
Osc 2 EQ	Gain	Amount of gain applied to the selected **Frequency**.	-48 – 0 – +48 dB
	Frequency	Center frequency for the equalization band.	25 – 10,000 Hz
	Drive	Amount of drive added to the EQ signal.	0–100%
	Keytrack	Ties the EQ settings to the pitch being played	0–100%
Mixer	Osc 1	Level of Oscillator 1.	0–100%
	Osc 2	Level of Oscillator 2.	0–100%
	Sub Osc	Level of the Sub Oscillator.	0–100%
	Ring Mod	Level of Ring Modulation effect.	0–100%
	Drive	Level of Drive effect.	0–100%
LP Filter	Cutoff	Center frequency of the low-pass filter cutoff.	0–100%
	Reso	Amount of resonance of the low-pass filter.	0–100%
	Slope	Amount of attenuation applied above the cutoff frequency.	0 – 24 dB/oct
	Saturation	Amount of saturation applied to the low-pass filter.	0–100%
	Env	Percentage of the envelope output subtracted from or added to the LP Filter **Cutoff**.	-100 – 0 – +100%
	Keytrack	Ties the LP Filter **Cutoff** to the pitch being played.	0–100%

Envelope

Use this tab to adjust the various envelope settings.

Parameter		Description	Value Range
Filter Envelope	Attack	Length of time for the filter to reach full level.	1.00 ms – 100 s
	Decay	Length of time for the filter to reach sustain level.	1.00 ms – 100 s
	Sustain	Level that a sustained note is held at, as a percentage of the maximum level.	0–100%
	Release	Length of time for the filter to dissipate when released.	1.00 ms – 100 s
Amp Envelope	Attack	Length of time for the note to reach full level.	1.00 ms – 100 s
	Decay	Length of time for the note to reach sustain level.	1.00 ms – 100 s
	Sustain	Level that a sustained note is held at, as a percentage of the maximum level.	0–100%
	Release	Length of time for the note to dissipate when released.	1.00 ms – 100 s
Envelope 3	Start Level	Initial velocity level of the envelope.	0–100%
	Start Time	Length of time for the envelope to start.	0–5000 ms
	Slope Hold	Amount of Envelope subtracted from or added to the **Destination** when a note is held.	-100 – 0 – +100%
	Slope Rel	Amount of Envelope subtracted from or added to the **Destination** when a note is released.	-100 – 0 – +100%
	Destination	Where the envelope will be applied to.	Off, Pitch, Osc 2 Pitch, LFO 1/2 Rate, Osc1 Quad Det., Osc 1/2 Shape, Osc 1/2 Level, Ring Level

LFO

Use this tab to adjust the settings for the low-frequency oscillators.

Parameter		Description	Value Range
LFO 1/LFO 2	Shape	Waveshape of the low-frequency oscillator.	Sine, Square. Saw Up, Saw Down, Pump, S&H, Drift
	Destination	Where the low-frequency oscillator is sent.	
			LFO1: Off, Pitch, Filter, Level, Pan
			LFO2: Pitch, Osc 1/2 Shape, Osc 1/2 Pitch, LPF, Quad Detune, Osc 2 EQ Freq, Osc 2 EQ Gain, Ring Level
	Rate	Speed of modulation.	
		When **Sync** is **Off**:	0.01 – 20.00 Hz
		When **Sync** is **On**:	8/4 – 1/32
	Depth	Amount of modulation applied.	0–100%
	Fade	Apply a fade-in or fade-out of the LFO signal.	0.00 – 20.00 s out, No fade, 0.00 – 20.00 s in
	Sync	Sync the LFO **Rate** to the **Global Tempo** or turn **Off** to adjust **Rate** by Hertz.	Off, On
Modulation	Source	Where the modulation signal is sent from.	Filter Env, Amp Env, Osc 1, Osc 2
	Destination	Where the modulated signal is received.	Pitch, Osc 1/2 Shape, Osc 1/2 Pitch, LPF, Quad Detune, Osc EQ 2 Freq, Osc 2 EQ Gain, Ring Level
	Depth	Amount of modulation applied.	-100 – 0 – 100%

Setup

Use this tab to adjust plugin setup parameters.

Parameter		Description	Value Range
Controller Destinations			
	Velocity 1	Send Velocity data to one of the following control destinations.	Amp, Cutoff, Osc1 Shape, Osc2 Shape, Osc1&2 Shape
	Depth	Amount of modulation applied.	0–100%
	Velocity 2	Send Velocity data to one of the following control destinations.	Amp, Cutoff, Osc1 Shape, Osc2 Shape, Osc1&2 Shape
	Depth	Amount of modulation applied.	0–100%
	Modwheel	Send Modwheel data to one of the following control destinations.	Amp, Cutoff, Osc1 Shape, Osc2 Shape, Osc1&2 Shape
	Depth	Amount of modulation applied.	-100 – 0 – 100%
	Aftertouch	Send Aftertouch data to one of the following control destinations.	LFO 1 Depth, Cutoff, Osc1 Shape, Osc2 Shape, Osc1&2 Shape
	Depth	Amount of modulation applied.	-100 – 0 – 100%
Setup	Polyphony	Number of allowable voices, and how voices are triggered.	Legato, Retrigger, 2, 3, 4
	Bend Range	Number of semitones up or down controlled by MIDI pitch bend messages	2–12 (semitones)
	Glide Time	Amount of time to slide from the pitch of one note to the next note played.	1.00 ms – 100 s
	Glide All	Enables or disables pitch gliding for all triggered notes, not just legato notes.	Off, On
	Detune	Amount of detuning applied. This setting is only applied when **Doubling** is enabled.	0–100%
	Doubling	Enables or disables voice doubling.	Off, On
Output	Shape	Amount of signal sent to a Tube Drive.	0–100%
	Width	Stereo width of the audio signal. Higher values give wider stereo separation.	0–100%
	Level	Overall output volume of the plugin.	-inf dB – +12.0 dB

Chorus

Use this tab to apply and adjust the settings for the built-in Chorus effect.

Parameter	Description	Value Range
Rate	Modulation speed of the effect.	0.01 – 10.0 Hz
Delay	Length of time the wet signal is offset from the dry signal.	0.00 – 24.00 ms
Voices	Number of voices used in the chorus effect.	3, 4, 6
LFO Wave	Waveshape of the low-frequency oscillator for the chorus effect.	Tri, Sine
Depth	Amount of pitch modulation of the effect.	0.00 – 24.00 ms
Width	Stereo width of the chorus effect. Higher values give wider stereo separation.	0–100%
Lo Cut	Center frequency for the chorus low-cut filter.	20.0 Hz – 1.0 kHz
Mix	Wet/dry amount of the chorus effect.	0–100%

Delay

Use this tab to apply and adjust the settings for the built-in delay effect.

Parameter	Description	Value Range
Time	Length of time between the dry signal and the delayed signal. When **Sync** is set to **Free:** When **Sync** is set to **Sync:**	 1 ms – 2.00 s 1/32 – 8/4
Sync	Enable to sync the Delay **Time** to the **Global Tempo**, disable to set the **Time** in milliseconds.	Off, On
Feedback	Amount of delay signal fed back into the delay line.	0–100%
Mix	Wet/dry amount of the delay effect.	0–100%
Damp	Center frequency of where the delayed signal will be dampened.	1.00 – 20.0 kHz
Reso	Amount of resonance of the feedback signal.	0–100%
Reso Freq	Center frequency for feedback resonance.	100 Hz – 10.0 kHz
Ratio	Reduces the delay **Time** in either the **Left** or **Right** stereo field. This is useful for creating offset, panned delays.	L 100:50, R 50:100
HPF	Center frequency for delay signal high-pass filter.	20.0 Hz – 1.0 kHz
Width	Stereo width of delay signal. Higher values give wider stereo separation.	0–100%

Reverb / Compressor / Hype

Use this tab to apply and adjust the settings for the built-in Reverb, Compressor and Hype effects.

Parameter		Description	Value Range
Reverb	Mode	Type of reverb applied.	Hall, Stadium, Room, Abstract
	Time	Length of reverb tail.	0.4 s – +inf s
	Lo Cut	Center frequency for the reverb low-pass filter.	1 – 1000 Hz
	Hi Cut	Center frequency for the reverb high-pass filter.	1.0 – 20.0 kHz
	Mix	Wet/dry mix of the reverb effect.	0–100%
Compressor	Threshold	Signal level after which the compressor will be applied.	0.0 – -60. dB
	Output	Amount of additional output gain for the compressed signal.	0.0 – +30.0 dB
	Mix	Wet/dry mix of the compressor effect.	0–100%
	Ratio	Amount of compression applied.	1.0:1 – 100.0:1
	Knee	How gradually the compressor reacts as the threshold is reached. Lower values apply a "soft" knee (compression is applied more slowly as signal approaches the threshold), and higher values apply a "hard" knee (compression is immediately applied when the threshold is reached).	0–100%
	Attack	Length of time to apply the compression.	100 us – 300 ms
	Release	Length of time for compressed signal to return to original level.	10 ms – 4.00 s
Hype	High	Dampens or maximizes high end frequencies.	-100 – 0 – +100%
	Low	Dampens or maximizes low end frequencies.	-100 – 0 – +100%

DrumSynth

The AIR DrumSynth plugins emulate the sound of classic drum machines and feature multiple synthesis types, advanced modeling and carefully crafted, built-in effects to create powerful contemporary drum sounds.

You can add the following drum types as individual plugins per track: **Clap**, **Crash**, **HiHat**, **Kick**, **Perc**, **Ride**, **Snare** and **Tom**. Each of these instruments has comprehensive synthesis and effects sections described below.

In each plugin, you can quickly enable or disable the built-in effects (**Transient**, **Distortion**, **EQ** and **Compressor**) while viewing any of the tabs listed below by tapping the buttons on the right side of the touchscreen under **FX**.

Drum Sound

Use this tab to adjust the basic settings for the drum sound. You can also use the knobs on this tab to quickly adjust up to eight parameters specifically chosen for each sound.

Parameter		Description	Value Range
Model		Type of drum sound emulated.	Varies
One-Shot		Allows the drum sound to play entirely when triggered or only for how long the note length is set.	Enabled, Disabled
Velocity		Amount of incoming Velocity applied. When set to 0, all notes will sound as if Full Level.	0–100%
Velocity 2		Amount of additional Velocity envelope that can be used to control a parameter.	-100 – 0 – +100%
	Target	Select the Parameter where the Velocity 2 information is sent.	Param 1–8
Gain		Volume level of the drum sound.	-Inf, -68.0 – 0 – +12.0 dB
Parameter Knobs		Each drum sound has up to eight associated parameters that can be used to further shape the sound. The available parameters vary based on the type of drum sound selected. Use the knobs to adjust the selected parameter.	Varies

Trans/Dist

Use this tab to adjust the settings for the Transient and Distortion effects.

Parameter		Description	Value Range
Transient	Attack	Decreases or increases the amount of transient attack applied to the signal.	-100 – 0 – +100%
	Shape	Adjusts the shape of the processed transient.	0–100%
	Sustain	Percentage of sustain envelope subtracted from or added to the transient effect.	-100 – 0 – +100%
Distortion	Pre-Shape	Increases or decreases the high-end tone of the incoming audio signal pre-distortion.	-100 – 0 – +100%
	Drive	Amount of drive applied.	0–60 dB
	Threshold	Signal level after which the distortion will be applied.	-20.0–0.0 dB FS
	High Cut	Center frequency of the distortion signal high-cut filter.	1.00–20.0 kHz
	Mix	Wet/dry amount of the distortion effect.	0–100%

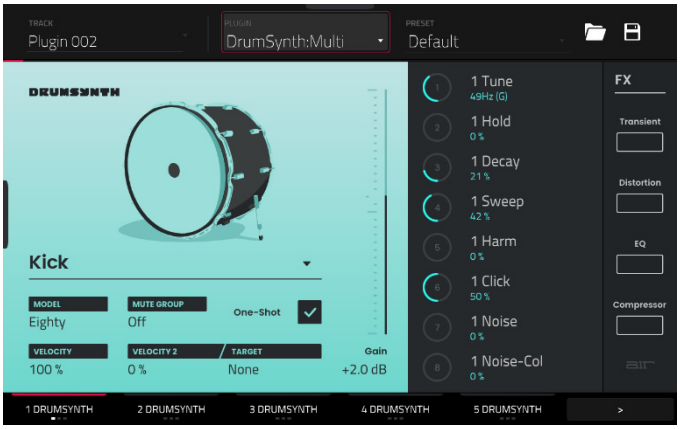
EQ/Comp

Use this tab to adjust the settings for the EQ and Compressor effects.

Parameter		Description	Value Range
EQ	High Freq	Center frequency for the High EQ band.	1.20 – 20.0 kHz
	High Gain	Amount of gain applied to the High EQ band.	Cut, -12.0 – 0 – +12.0 dB
	High Mid Freq	Center frequency for the High Mid EQ band.	120 Hz – 16.0 kHz
	High Mid Q	Width of the High Mid EQ band.	0.40–10.00
	High Mid Gain	Amount of gain applied to the High Mid EQ band.	-18.0 – 0 – +18.0 dB
	Low Mid Freq	Center frequency for the Low Mid EQ band.	40.0 Hz – 8.00 kHz
	Low Mid Q	Width of the Low Mid EQ band.	0.40–10.00
	Low Mid Gain	Amount of gain applied to the Low Mid EQ band.	-18.0 – 0 – +18.0 dB
	Low Freq	Center frequency for the Low EQ band.	20.0 Hz – 1.00 kHz
	Low Gain	Amount of gain applied to the Low EQ band.	Cut, -12.0 – 0 – +12.0 dB
Compressor	Ratio	Amount of compression applied.	1.0:1 – 100.0:1
	Attack	Length of time to apply the compression.	100 us – 300 ms
	Threshold	Signal level after which the compressor will be applied.	-60.0–0.0 dB
	Output	Amount of additional output gain for the compressed signal.	0.0–30.0 dB

You can also use the **DrumSynth:Multi** plugin to access all DrumSynth sounds from one plugin, which includes additional dedicated effects and mixing controls.

Note: You can only have one DrumSynth:Multi plugin active per project.



DrumSynth 1–8 / Trans/Dist / EQ/Comp

Use the first eight tabs in the Multi to control the same parameters as the individual DrumSynth plugins. Tap each tab to cycle between the ***Drum Sound*** view, the ***Trans/Dist*** view, and the ***EQ/Comp*** view.

Send FX

Use this tab to adjust the settings for the Delay, Diffuser and Reverb effects.

Parameter		Description	Value Range
Delay	Time	Length of time between the dry signal and the delayed signal.	1/32 – 8/4
	Ratio	Reduces the delay **Time** in either the **Left** or **Right** stereo field. This is useful for creating offset, panned delays.	L 100:50, R 50:100
	Feedback	Amount of delay signal fed back into the delay line.	0–100%
	Filter Freq	Sets the center frequency of the filtered delay signal.	1.00 – 20.0 kHz
	Reso	Amount of resonance of the feedback signal.	0–100%
	Reso Freq	Center frequency for feedback resonance.	100 Hz – 10.0 kHz
Diffuser	Delay	Delay time between the dry signal and the diffused signal.	1/64 – 4/4
	Feedback	Amount of diffused signal sent back into the delay line.	0–100%
	Diffusion	Rate of increasing density of reverb reflections. At lower settings, the sound of individual reflections is more present. At higher settings, reflections are more uniform.	0–100%
	Bright	Adjusts the high-end tone of the diffused signal.	0–100%
Reverb	Mode	Type of reverb applied.	Hall, Stadium, Room, Abstract
	Time	Length of reverb tail.	0.4 s – +Inf s
	Low Cut	Center frequency for the reverb low-pass filter.	1 – 1000 Hz
	High Cut	Center frequency for the reverb high-pass filter.	1.00 – 20.0 kHz

Mixer / FX / Sends

Use this tab to mix the individual drum sounds as well as control their effects. The **Mixer / FX / Sends** tab contains three different views that can be accessed by tapping the tab at the bottom of the display.

Use the **Mixer** view to adjust the volume, panning, muting, and soloing for each drum.

Tap the **1**–**8** icons to mute or unmute the selected drum.

Tap the **S** icon to solo the selected drum.

Tap and drag the **pan slider** to adjust the drum panning. Alternatively, tap the slider and use the encoder, or use the appropriate knob in Screen mode.

Tap and drag the **volume slider** to adjust the drum volume. Alternatively, tap the slider and use the encoder, or use the appropriate knob in Screen mode.

Use the **FX** view to enable or disable the Transient, Distortion, EQ and Compressor effects for each drum sound.

Tap the **FX box** to enable or disable the selected FX on the selected drum.

Use the **Sends** view to adjust the send levels for the Delay, Diffuser and Reverb Send FX.

Tap and drag the **Send knob** to adjust the send level for the selected effect on the selected drum. Alternatively, tap the knob and use the encoder, or use the appropriate knob in Screen mode.

Mellotron

The AIR Mellotron plugin is a software recreation of the classic tape keyboard, including reproductions of the original tape samples in both clean and dirty versions.

Model

Use this tab to adjust the settings for the tape sample.

Parameter	Description	Value Range
Sample	Select the tape loop sample.	8 Voice Choir, Boys Choir, Flute, Violins 1, Violins 2, Violin
Clean	Enables or disables a cleaner sample sound.	Off, On
Formant	Decreases or increases the harmonic resonance of the formant frequency.	-12 – 0 – +12
Age	Amount of sound degradation applied.	0–100%
Smpl Start	Starting point of the tape loop sample.	0–100%
Cutoff	Amount of filter cutoff applied.	0–100%
Attack	Length of time for the sound to reach full level.	0 ms – 32 s
Release	Length of time for the sound to dissipate when the note is released.	0 ms – 32 s
Vel > Amp	The amount of effect velocity has on amplitude control.	0–100%
MW Vib	Amount of vibrato applied from the mod wheel.	0–100%
AT Vib	Amount of vibrato applied from aftertouch.	0–100%
Vib Speed	Modulation speed of the vibrato effect.	0.03 – 30.00 Hz
Key On	Enables or disables key action noise on note on.	Off, On
Key Off	Enables or disables key action noise on note off.	Off, On
On Vol	Amount of key-on noise.	0–100%
Off Vol	Amount of key-off noise.	0–100%
Smpl Poly	Number of voices available.	1–40
Level	Overall level of the plugin.	0–100%

Flavor / Compressor / EQ

Use this tab to adjust the settings for the flavor, compressor, and EQ effects. Each effect can be turned on and off by using the buttons on the right side.

Parameter		Description	Value Range
Flavor		Use the button in the upper-right corner to enable or disable the flavor effect.	Off, On
	Timbre	Selects an emulation type to color the sound.	Varies
	Timbre Depth	Amount of timbre emulation applied to the sound.	0–100%
	Flutter	Amount of speed fluctuation of the sound playback.	0–100%
	Vinyl Distortion	Amount of vinyl distortion noise applied to the signal.	0–100%
	Vinyl Noise	Amount of vinyl noise such as clicks and pops applied to the signal.	0–100%
Compressor		Use the button in the upper-right corner to enable or disable the compression effect.	Off, On
	Threshold	Signal level after which the compressor will be applied.	-30.0 – 0.0 – +10.0 dB
	Ratio	Amount of compression applied.	1.0:1 – 20.0:1
	Attack	Length of time to apply the compression.	0–100%
	Makeup	Amount of additional output gain for the compressed signal.	-20.0 – 0.0 – +20.0 dB
EQ		Use the button in the upper-right corner to enable or disable the EQ effect.	Off, On
	Low	Amount of attenuation or boost applied to the low frequency band.	-12.0 – 0.0 – +12.0 dB
	Low Mid	Amount of attenuation or boost applied to the low-mid frequency band.	-20.0 – 0.0 – +20.0 dB
	High Mid	Amount of attenuation or boost applied to the high-mid frequency band.	-20.0 – 0.0 – +20.0 dB
	High	Amount of attenuation or boost applied to the high frequency band.	-12.0 – 0.0 – +12.0 dB

Delay / Spring Reverb

Use this tab to adjust the settings for the delay and spring reverb effects. Each effect can be turned on and off by using the buttons on the right side.

Parameter		Description	Value Range
Delay		Use the button in the upper-right corner to enable or disable delay.	Off, On
	Time	Amount of time between the dry signal and the delayed signal.	1/16 – 16/4
	L/R Ratio	Reduces the delay **Time** in either the **Left** or **Right** stereo field. This is useful for creating offset, panned delays.	50:100 – 100:100 – 100:50
	Feedback	Amount of signal fed back into the delay line.	0–100%
	Mix	Wet/dry amount of the delay effect.	0–100%
	Reso LP Freq	Low pass frequency for feedback resonance.	100 – 16000 Hz
	Reso Bell Freq	Center frequency for feedback resonance.	100 – 16000 Hz
	Reso Bell Gain	Amount of gain applied to the resonant frequency.	0–100%
Spring Reverb		Use the button in the upper-right corner to enable or disable the spring reverb effect.	Off, On
	Pre-Delay	Length of time between dry signal and reverberated signal.	0 – 250 ms
	Time	Length of reverb tail.	1.00 – 10.00 s
	Low Cut	Center frequency for reverb signal low-cut filter.	20 – 1000 Hz
	Diffusion	Rate of increasing density of reverb reflections. At lower settings, the sound of individual reflections is more present. At higher settings, reflections are more uniform.	0–100%
	Width	Stereo width of reverb signal. Higher values give wider stereo separation.	0–100%
	Mix	Wet/dry amount of the reverb effect.	0–100%

Solina

The AIR Solina plugin is a software recreation of the classic string synthesizer.

Ensemble

Use this tab to adjust the voice and ensemble settings.

Parameter	Description	Value Range
Voice	Click each button to enable or disable the selected voice.	Contra Bass, Cello, Viola, Violin, Trumpet, Horn
Voice Volume	Volume of the selected voice.	-Inf – 0 – +12
Voice Panning	Stereo panning of the selected voice.	L64 – C – R64
Voice Octave	Octave adjustment for the selected voice.	-2, -1, 0 (Contra Bass) 0, +1, +2 (Violin) -1, 0, +1 (All others)
Ensemble	Enables or disables the ensemble effect.	Off, On
Bass Volume	Adjusts the volume of the bass voices.	0–100
Dual	When enabled, both bass and upper voices will play on every key, regardless of the octave. When disabled, the voices will be split so that the bass voices play on lower octaves and the upper voices play on higher octaves.	Off, On
Upper Volume	Adjusts the volume of the upper voices.	0–100
Level	Overall level of the plugin.	0–100%

Sound

Use this tab to adjust additional settings for the plugin sound.

Parameter	Description	Value Range
Crescendo	Length of time for the sound to reach full volume.	0 ms – 32 s
Sustain	Length of time for the sound to remain playing after the key is released.	0 ms – 32 s
Formant	Decreases or increases resonant frequencies to adjust the timbre of the sound.	-12 – 0 – +12
Filter	Adjusts the low-pass filter frequency.	0–100%
Age	Amount of detuning and drift applied.	0–100%
Velocity to Amp	The amount of effect velocity has on amplitude control.	0–100%
MW Vibrato	Amount of vibrato applied from the mod wheel.	0–100%
AT Vibrato	Amount of vibrato applied from aftertouch.	0–100%
Vibrato Speed	Modulation speed of the vibrato effect.	1.00–30.00 Hz
Sample Poly	Number of voices available.	1–50

Flavor

Use this tab to adjust the settings for the flavor and vinyl effects.

Parameter		Description	Value Range
Flavor		Enables or disables the flavor effect.	Off, On
	Timbre	Selects an emulation type to color the sound.	Varies
	Timbre Depth	Amount of timbre emulation applied to the sound.	0–100%
	Vinyl Distortion	Amount of vinyl distortion noise applied to the signal.	0–100%
	Vinyl Noise	Amount of vinyl noise such as clicks and pops applied to the signal.	0–100%
	Flutter	Amount of speed fluctuation of the sound playback.	0–100%
	Monofy	Reduces the stereo spread.	0–100%

Chorus / EQ

Use this tab to adjust the settings for the chorus and EQ effects. Use the buttons on the right side to enable or disable each effect.

Parameter		Description	Value Range
Chorus	Rate	Modulation speed of the chorus effect.	0.05 – 20 Hz
	Depth	Modulation depth of the chorus effect.	0–100%
	Tone	Decreases or increases the brightness of the chorus effect.	-100 – 0 – +100%
	Mix	Wet/dry amount of the chorus effect.	0–100%
EQ	Low	Amount of attenuation or boost applied to the low frequency band.	-12.0 – 0.0 – +12.0 dB
	Low Mid	Amount of attenuation or boost applied to the low-mid frequency band.	-20.0 – 0.0 – +20.0 dB
	High Mid	Amount of attenuation or boost applied to the high-mid frequency band.	-20.0 – 0.0 – +20.0 dB
	High	Amount of attenuation or boost applied to the high frequency band.	-12.0 – 0.0 – +12.0 dB

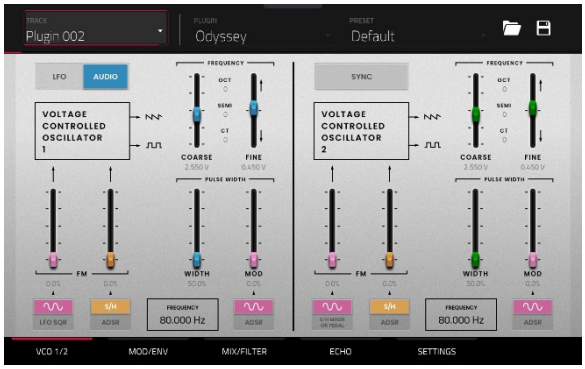
Delay / Spring Reverb

Use this tab to adjust the settings for the delay and spring reverb effects. Use the buttons on the right side to enable or disable each effect.

Parameter		Description	Value Range
Delay	Time	Amount of time between the dry signal and the delayed signal.	1/16 – 16/4
	L/R Ratio	Reduces the delay **Time** in either the **Left** or **Right** stereo field. This is useful for creating offset, panned delays.	50:100 – 100:100 – 100:50
	Feedback	Amount of signal fed back into the delay line.	0–100%
	LP Freq	Low pass frequency for feedback resonance.	100 – 16000 Hz
	Bell Freq	Center frequency for feedback resonance.	100 – 16000 Hz
	Bell Gain	Amount of gain applied to the resonant frequency.	0–100%
	Mix	Wet/dry amount of the delay effect.	0–100%
Spring Reverb	Pre-Delay	Length of time between dry signal and reverberated signal.	0 – 250 ms
	Time	Length of reverb tail.	1.00 – 10.00 s
	Low Cut	Center frequency for reverb signal low-cut filter.	20 – 1000 Hz
	Diffusion	Rate of increasing density of reverb reflections. At lower settings, the sound of individual reflections is more present. At higher settings, reflections are more uniform.	0–100%
	Width	Stereo width of reverb signal. Higher values give wider stereo separation.	0–100%
	Mix	Wet/dry amount of the reverb effect.	0–100%

WayOutWare Odyssey

The WayOutWare Odyssey plugin is a software recreation of the classic analog synthesizer that captures the character and nuance of the original Odyssey using WayOutWare's experience and expertise in circuit modeling and signal processing.



VCO 1/2

Use this tab to adjust the settings for the voltage-controlled oscillators.

Parameter		Description	Value Range
LFO/Audio		When set to **Audio**, standard pitches will be produced as indicated by the **Oct**, **Semi** and **CT** values for the Frequency setting. When set to **LFO**, the VCO will be controlled by an LFO and may be used for modulating VCO2.	LFO, Audio
Frequency		Determines the pitch adjustment for the oscillator. The total frequency range depends on the **LFO/ Audio** setting, and is shown at the bottom of this section.	0.174 – 1478.852 Hz
	Coarse	Coarse pitch adjustment.	-0.200 – 6.333 V
	Fine	Fine pitch adjustment.	0.000 – 0.875 V
VCO 1 FM	Source 1 Waveform	Type of frequency modulation waveform applied by the LFO.	LFO Sine, LFO Square
	Depth 1	Depth of frequency modulation.	0.0–100.0%
	Source 2	Determines the frequency modulation source.	S/H, ADSR
	Depth 2	Depth of Source 2 modulation.	0.0–100.0%
VCO 1 Pulse Width	Width	Width of pulse width modulation.	50.0–90.0%
	Mod	Depth of pulse width modulation.	0.0–100.0%
	Source	Determines the pulse width modulation source.	LFO Sine, ADSR
Sync		Determines whether VCO 2 is synced with the frequency of VCO 1. When disabled, you can use both VCOs to produce separate pitches.	Off, On
Frequency		Pitch adjustment for the oscillator.	8.706 – 1478.852 Hz
	Coarse	Coarse pitch adjustment.	-0.200 – 6.333 V
	Fine	Fine pitch adjustment.	0.000 – 0.875 V
VCO 2 FM	Source 1	Type of modulation source. When S/H Mixer or Pedal is selected, the modulation can be controlled by the Sample and Hold mixer or by an optional external expression pedal.	LFO Sine, S/H Mixer or Pedal
	Depth 1	Depth of Source 1 modulation.	0.0–100.0%
	Source 2	Type of modulation source.	S/H, ADSR
	Depth 2	Depth of Source 2 modulation.	0.0–100.0%
VCO 2 Pulse Width	Width	Width of pulse width modulation.	50.0–90.0%
	Mod	Depth of pulse width modulation.	0.0–100.0%
	Source	Type of source for pulse width modulation.	LFO Sine, ADSR

Mod/Env

Use this tab to adjust the settings for the low frequency oscillator, sample and hold generator, and envelope generator.

Parameter		Description	Value Range
LFO	LFO Tempo Sync	Determines whether LFO speed is free floating or synced to project tempo.	Off, On
	LFO Speed	Speed of the low frequency oscillator. When **Sync** is **Off**: When **Sync** is **On**:	 0.0925 – 20.0000 Hz 4/4 – 1/64 beats
Sample/Hold	Trigger	Determines the source signal for triggering the Sample and Hold mixer, either the Low Frequency Oscillator or the pitched Keyboard output.	LFO Trigger, Kybd Trigger
	Source 1	Selects the VCO-1 waveform or pulse width modulation as Sample and Hold input.	Saw, Pulse
	Source 2	Selects a noise generator or the VCO-2 pulse width modulation as Sample and Hold input.	Noise, Pulse
	VCO-1	Level of the VCO-1 input.	0.0–100.0%
	Depth	Level of the noise or VCO-2 input.	0.0–100.0%
	Lag	Adjusts the smoothing of the Sample and Hold output voltage.	0.0–100.0%
AR	Attack	Attack time of the AR envelope generator.	0.003 – 10.000 seconds
	Release	Release time of the AR envelope generator.	0.003 – 10.000 seconds
	Trigger Source	Determines the input source sent to the AR envelope generator. When set to **KYBD Gate**, the envelope generator is triggered by key input. When set to **LFO Repeat**, the envelope generator is trigger by the LFO pulse wave.	KYBD Gate, LFO Repeat
ADSR	Attack	Attack time of the ADSR envelope generator.	0.003 – 10.000 seconds
	Decay	Decay time of the ADSR envelope generator.	0.003 – 10.000 seconds
	Sustain	Sustain time of the ADSR envelope generator.	0.000 – 10.000 V
	Release	Release time of the ADSR envelope generator.	0.003 – 10.000 seconds
	Trigger Source	Type of input to trigger the envelope generator.	KYBD Gate, LFO Repeat
	Repeat	When **Trigger Source** is set to **LFO Repeat**, select **KYBD Repeat** for the LFO to trigger only when a key is pressed, or select **Auto Repeat** for the LFO to trigger automatically without key input.	KYBD Repeat, Auto Repeat

Mix/Filter

Use this tab to adjust the audio mixing and routing, as well as adjust the voltage-controlled filter, high-pass filter, and voltage-controlled amplitude.

Parameter		Description	Value Range
VCF	VCF Cutoff	Cutoff frequency of the filter.	0.680 – 10.645 V, or 16.02 - 16012.70 Hz
	VCF Res	Resonance of the filter.	0.000 – 0.800 Q
Audio Mixer	Noise/Ring Mod	Select the noise generator or ring modulation input for the mixer.	Noise, Ring Mod
	Noise/Ring Mod Level	Level of the noise generator or ring modulation into the mixer.	0.0–100.0%
	VCO-1 Input	Select the VCO-1 input type for the mixer.	Saw, Pulse
	VCO-1 Level	Level of VCO-1 into the mixer.	0.0–100.0%
	VCO-2 Input	Select the VCO-2 input type for the mixer.	Saw, Pulse
	VCO-2 Level	Level of VCO-2 into the mixer.	0.0–100.0%
VC Filter	VCO-1 Filter Modulation Source	Set the input source for VCO-1 filter modulation. Select **KYBD CV** to use key input as the source. Select **S/H Mixer or Pedal** to use the Sample and Hold generator or optional external pedal.	KYBD CV, S/H Mixer or Pedal
	CV Modulation Level	Level of VCO-1 filter modulation.	0.0–100.0%
	VCO-2 Filter Modulation Source	Set the input source for VCO-2 filter modulation.	S/H, LFO Sine
	CV Modulation Level	Level of VCO-2 filter modulation.	0.0–100.0%
HP Filter	Filter Modulation Source	Select which envelope generator to use as a filter modulation source.	ADSR, AR
	CV Filter Modulation Level	Amount of envelope filter modulation applied to the VC Filter.	0.0–100.0%
	HPF Cutoff	Cutoff frequency of the high-pass filter.	0.680 – 10.645 V, or 16.02 - 16012.70 Hz
VC Amp	Mod Source	Select which envelope generator to use as an amplitude modulation source.	ADSR, AR
	Mod	Amount of envelope modulation applied to the output signal.	0.0–100.0%
	VCA Gain	Amount of gain applied to the VC Amp.	0.0–100.0%

Echo

Use this tab to adjust the settings for the tape echo effect.

Parameter		Description	Value Range
Delay		Use the switch in the bottom-left corner to enable or disable the delay effect.	Off, On
	Sync	Enable to sync the **Echo Time** to the **Global Tempo**, or disable to adjust the **Echo Time** by milliseconds.	Off, On
	Sustain	Length of time that the echo continues playing.	0.0–100.0%
	Echo Mix	Adjusts the wet/dry amount between the original sound and the echo.	100% Synth – 50/50% – 100% Echo
	Echo Time	Amount of time between the dry signal and the delayed signal. Use the slider or the Echo Time field to change the value. When **Sync** is **Off**: When **Sync** is **On**:	 0.02 – 5.00 seconds 1/64 – 4/4

Settings

Use this tab to adjust general settings such as voice count, portamento and performance parameters.

Parameter		Description	Value Range
Voice Count		Number of voices available. When set to Duo, each VCO controls a separate note.	Duo, 2–4
Portamento		Length of time to slide between notes.	0.000 – 1.500 seconds
	Exp Pedal	Enables or disables the use of an expression pedal to control portamento.	Off, On
	Footswitch	Enable or disables the use of a footswitch to activate portamento.	Off, On
Transpose		Amount of transposition applied to the keyboard.	-2, 0, +2 octaves
Noise		Type of noise used for the noise generator.	White, Pink
Performance Velocity Depth	MW Vib LFO	Amount of vibrato LFO applied by the mod wheel.	0.0–100.0%
	MW PWM	Amount of pulse width modulation applied by the mod wheel.	0.0–100.0%
	KYBD Filter	Amount that the filter is tied to the pitch being played.	0.0–100.0%
	KYBD Amp	Amount that the amplitude is tied to the pitch being played.	0.0–100.0%

SATA Drive Installation

To create more internal storage space on your MPC hardware, you can purchase a **SATA** (Serial ATA) drive and install it yourself, but read this chapter first.

Your MPC X, MPC Live, MPC Live II, or MPC Key 61 can support nearly any standard 2.5" SATA drive on the market—either a solid-state drive (SSD) or hard-disk drive (HDD). Make sure it uses a **2.5**" (63.5 mm) form factor and uses (or can use) one of these file systems: **exFAT**, **FAT32**, **NTFS**, or **EXT4** (for read and write capability) or **HFS+** (for read-only capability).

Note: We recommend using an exFAT file system as it is the most robust one supported by both Windows and macOS.

Note: Alternatively, you could install an **mSATA** (mini-SATA) drive, but make sure you also purchase an adapter that enables it to fit into a typical 2.5" SATA interface.

1. Make sure your MPC hardware is powered **off**.
2. Locate the **SATA drive panel** in the center of the bottom panel of your MPC hardware. Use a Phillips-head screwdriver to remove the screws (don't lose them!), and remove the SATA drive panel.
3. Gently pull the **SATA connector and cable** out from inside your MPC hardware. Be careful not to disturb anything inside—handle just the SATA connector and cable.
4. Connect your **SATA drive** to the **SATA connector**. Make sure the connection is secure.
5. Use four **3x5mm mounting screws** (included with MPC hardware or with your SATA drive) to secure the SATA drive to the SATA drive panel. Do not overtighten the screws, but make sure the drive is secure and does not shake.
6. Place the SATA drive panel back onto the bottom panel of your MPC hardware, and use the original screws to secure it in place.

   You can now access this drive while using your MPC hardware!

   In Standalone Mode, this drive will appear as a second internal drive.

   In Controller Mode, this drive will appear as another drive connected to your computer (just as a USB drive or SD card connected does when connected to your MPC hardware).

MIDI Machine Control (MMC)

Your MPC hardware can send and receive MIDI Machine Control (MMC) messages, a standard protocol for transport controls.

The MPC hardware can send these messages:

MPC Button	MMC Command Sent
Rec	MMC Record Strobe (when recording starts), then MMC Record Exit
Overdub	MMC Record Strobe (when recording starts), then MMC Record Exit
Stop	MMC Stop
Play	MMC Deferred Play
Play Start	MMC Locate Zero, then Deferred Play
Data Dial, –/+, Step </>, Bar <</>>	MMC Locate values

To set up your MPC hardware to send MMC messages to an external device:

1. Use a standard 5-pin MIDI cable to connect your MPC hardware's **MIDI Out A** to the MIDI input of your external device.
2. Press **Menu** to show the menu, and tap the **gear icon** to enter the **Preferences**.
3. Tap the **Sync** tab.
4. Tap the **Send Port 1** field, and use the **data dial** or **–/+** buttons to select **Midi Out A**.
5. Tap the **Send MMC** box so it is enabled (checked).
6. Exit the **Preferences**.
7. Configure your other device properly so it can receive MMC messages.

The MPC hardware can receive these messages:

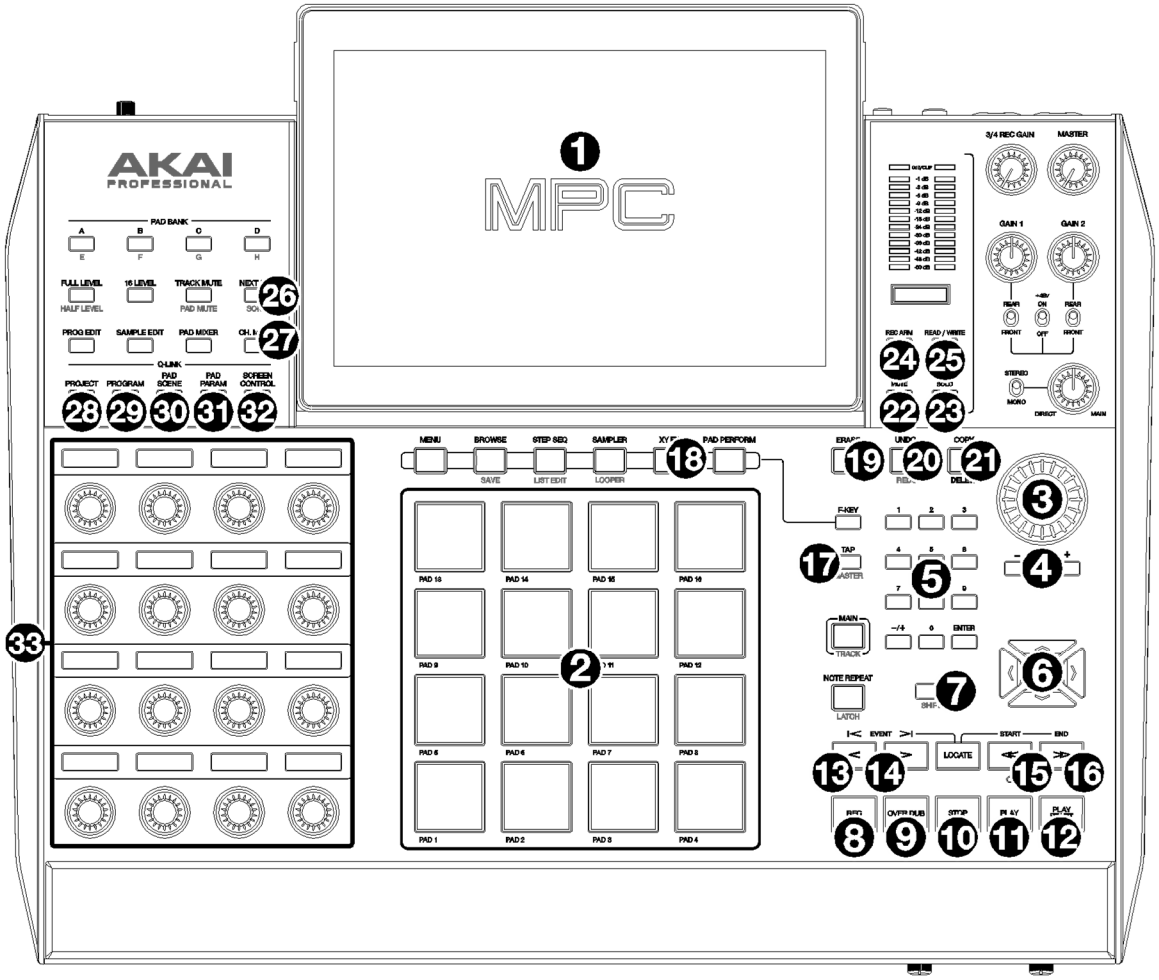
MPC Command Received	MPC Function
MMC Deferred Play	Play
MMC Locate Zero, then Deferred Play	Play Start
MMC Stop	Stop
MMC Record Strobe	Record (Rec)
MMC Pause	Stop
MMC Locate values	Change location in sequence

To set up your MPC hardware to receive MMC messages from an external device:

1. Use a standard 5-pin MIDI cable to connect your MPC hardware's **MIDI In A** to the MIDI output of your external device.
2. Press **Menu** to show the menu, and tap the **gear icon** to enter the **Preferences**.
3. Tap the **Sync** tab.
4. Tap the **Receive MMC** box so it is enabled (checked).
5. Exit the **Preferences**.
6. Configure your other device properly so it can send MMC messages.

Ableton Control Maps

MPC X / MPC X Special Edition



General Controls and Features

#	Device Control	Ableton Live Function
1	Display	In Ableton Live Control Mode, MPC X's display will show a dynamic representation of Ableton Live's software.
2	Pads	Press the pads to launch clips or scenes. Press the **XYFX button** to toggle between launching clips (the button is off) and launching scenes (the button is on).
3	Data Dial	Adjusts the highlighted field.
4	-/+	Decreases or increases the value of the highlighted field.
5	Numeric Input	If the selected field on the screen is a number, press these numbered buttons as you would on a standard numeric keypad to enter a value. Press the keypad's **Enter** to enter it. (A numeric keypad with additional operations will appear on the screen, as well.)
6	Directional Cursors	Moves the 4x4 Session Matrix focus on the display by one row or one column at a time.
7	Shift	Hold this button to access secondary button functions. See ***Shift Controls*** for more details.

Transport Controls

#	Device Control	Ableton Live Function
8	Record	Enable and disable Arrangement Record
9	Overdub	Enable and disable Session Record.
10	Stop	Stop playback.
11	Play	Start playback from the Stop position.
12	Play Start	Start playback from the Arrangement start (1:1:1).
13	<	Move Playhead back by one bar
14	>	Move Playhead forward by one bar
15	<<	Phase Nudge down
16	>>	Phase Nudge up

Right-Hand Side Buttons

#	Device Control	Ableton Live Function
17	Tap Tempo	Tap this button at the desired rate to set a new tempo in Ableton Live.
18	XYFX	Toggles the MPC pads between launching clips (XYFX off) and launching scenes (XYFX on).
19	Erase	Deletes the selected clip.
20	Undo	Undo the last action.
21	Copy	Duplicates the selected clip into the next available clip slot.
22	Mute	Mutes/deactivates the current track.
23	Solo	Solos the current track.
24	Rec Arm	Arms the current track for recording.
25	Read/Write	Arms Global Automation.

Left-Hand Side Buttons

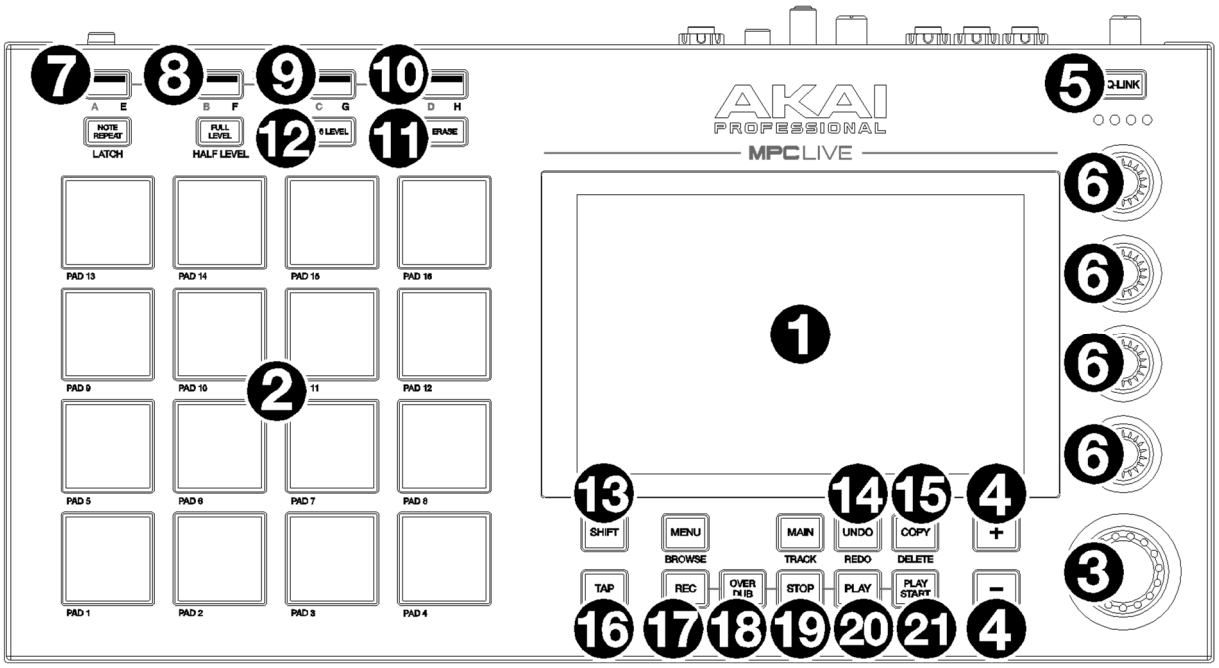
#	Device Control	Ableton Live Function
26	Next Seq	Opens the Ableton Clip Launch Matrix tab
27	Ch. Mixer	Opens the Ableton Mixer tab.
28	Q-Link Project	Moves to the previous device.
29	Q-Link Program	Moves to the next device.
30	Q-Link Pad Scene	Device Control Bank Left
31	Q-Link Pad Param	Device Control Bank Right
32	Q-Link Screen Control	Opens the Ableton Device Control tab
33	Q-Links	Adjusts the currently selected parameters displayed in the OLED screens above. **Q-Links 1–8** control track volume for the eight tracks currently in view, while **Q-Links 9–16** control the device on the currently selected track, based on the "blue hand" in Ableton Live's Detail View.

Shift Controls

Press and hold MPC X's **Shift** button, and then press the following buttons for additional actions.

#	Device Control	Ableton Live Function
2	Pads	Selects a clip without launching it.
6	Directional Cursors	Moves the 4x4 Session Matrix focus on the display by eight rows or eight columns at a time.
10	Stop	Stop playback and return song position to 1:1:1.
17	Tap Tempo	Toggle the metronome on and off.
21	Undo	Redo the last action.

MPC Live



Basic Controls

#	Device Control	Ableton Live Function
1	Display	In Ableton Live Control Mode, MPC Live's display will show a dynamic representation of Ableton Live's software.
2	Pads	Press the pads to launch clips or scenes. Press the **16 Level button** to toggle between launching clips (the button is off) and launching scenes (the button is on).
3	Data Dial	Adjusts the highlighted field.
4	-/+	Decreases or increases the value of the highlighted field.
5	Q-Link Button	Press this button to move forward between Q-Link Banks 1–4. Push and hold this button to bring up the Q-Links Overview window on the display.
6	Q-Links	Adjusts the currently selected parameters. Use the **Q-Link button** to toggle between Q-Link Banks 1 and 2 (which control Track Level for the eight tracks currently viewed) and Banks 3 and 4 (which are mapped to control the device on the current track, based on the location of the "blue hand" in Ableton Live's Detail View).
7	Bank A/E	Move the 4x4 Session Matrix focus up by one row.
8	Bank B/F	Move the 4x4 Session Matrix focus down by one row.
9	Bank C/G	Move the 4x4 Session Matrix focus left by one column.
10	Bank D/H	Move the 4x4 Session Matrix focus right by one column.
11	Erase	Deletes the selected clip.
12	16 Level	Toggles the MPC pads between launching clips (16 Level off) and launching scenes (16 Level on).
13	Shift	Hold this button to access secondary button functions. See ***Shift Controls*** for more details.

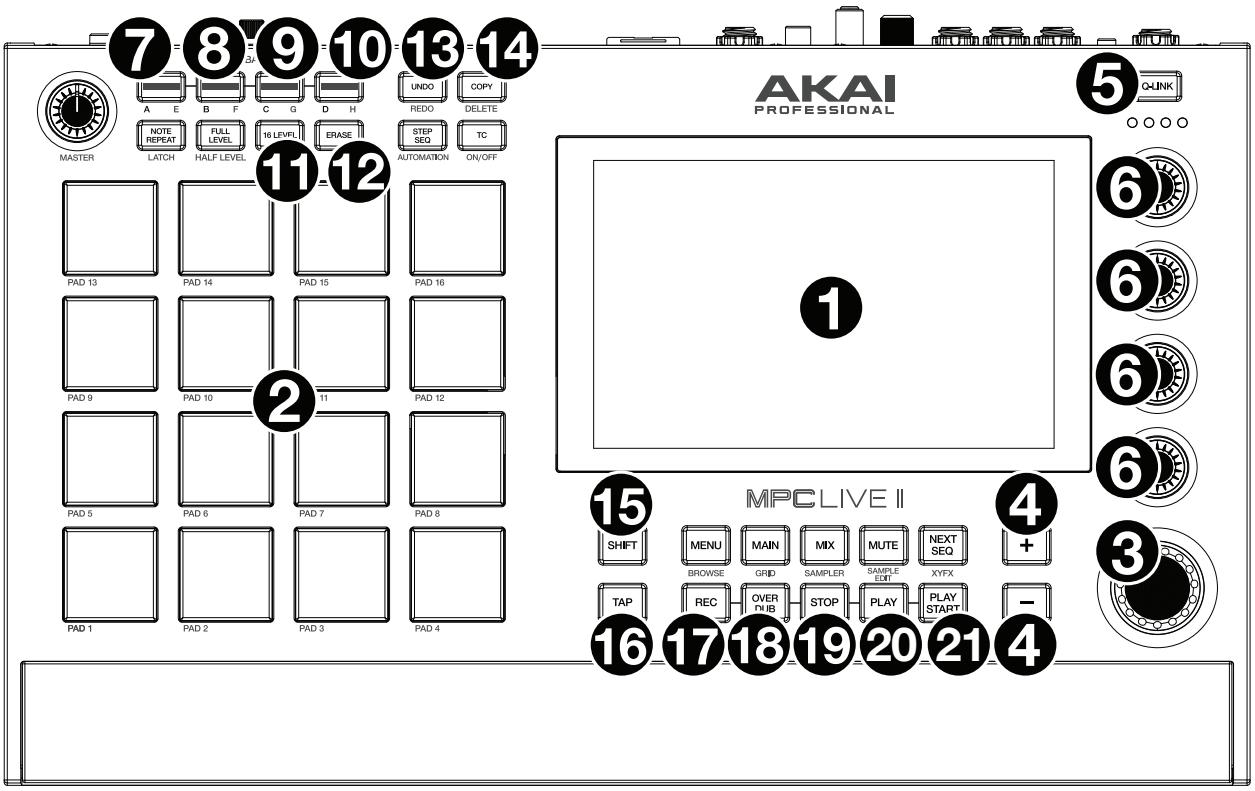
#	Device Control	Ableton Live Function
14	Undo	Undo the last action.
15	Copy	Duplicates the selected clip into the next available clip slot.
16	Tap	Tap this button at the desired rate to set a new tempo in Ableton Live.
17	Rec	Enable and disable Arrangement Record.
18	Overdub	Enable and disable Session Record.
19	Stop	Stop playback.
20	Play	Start playback from the current playhead position.
21	Play Start	Start playback from the Arrangement start (1:1:1).

Shift Controls

Press and hold MPC's **Shift** button, and then press the following buttons for additional actions.

#	Device Control	Ableton Live Function
2	Pads	Selects a clip without launching it.
5	Q-Link Button	Move backward between Q-Link Banks 1–4.
7	Bank A/E	Move the 4x4 Session Matrix focus up by eight rows.
8	Bank B/F	Move the 4x4 Session Matrix focus down by eight rows.
9	Bank C/G	Move the 4x4 Session Matrix focus left by eight columns.
10	Bank D/H	Move the 4x4 Session Matrix focus right by eight columns.
13	Undo	Redo the last action.
15	Tap	Toggle the metronome on and off.
18	Stop	Stop playback and return song position to 1:1:1.

MPC Live II



Basic Controls

#	Device Control	Ableton Live Function
1	Display	In Ableton Live Control Mode, MPC Live II's display will show a dynamic representation of Ableton Live's software.
2	Pads	Press the pads to launch clips or scenes. Press the **16 Level button** to toggle between launching clips (the button is off) and launching scenes (the button is on).
3	Data Dial	Adjusts the highlighted field.
4	-/+	Decreases or increases the value of the highlighted field.
5	Q-Link Button	Press this button to move forward between Q-Link Banks 1–4. Push and hold this button to bring up the Q-Links Overview window on the display.
6	Q-Links	Adjusts the currently selected parameters. Use the **Q-Link button** to toggle between Q-Link Banks 1 and 2 (which control Track Level for the eight tracks currently viewed) and Banks 3 and 4 (which are mapped to control the device on the current track, based on the location of the "blue hand" in Ableton Live's Detail View).
7	Bank A/E	Move the 4x4 Session Matrix focus up by one row.
8	Bank B/F	Move the 4x4 Session Matrix focus down by one row.
9	Bank C/G	Move the 4x4 Session Matrix focus left by one column.
10	Bank D/H	Move the 4x4 Session Matrix focus right by one column.
11	Erase	Deletes the selected clip.
12	16 Level	Toggles the MPC pads between launching clips (16 Level off) and launching scenes (16 Level on).

#	Device Control	Ableton Live Function
13	Undo	Undo the last action.
14	Copy	Duplicates the selected clip into the next available clip slot.
15	Shift	Hold this button to access secondary button functions. See ***Shift Controls*** for more details.
16	Tap	Tap this button at the desired rate to set a new tempo in Ableton Live.
17	Rec	Enable and disable Arrangement Record.
18	Overdub	Enable and disable Session Record.
19	Stop	Stop playback.
20	Play	Start playback from the current playhead position.
21	Play Start	Start playback from the Arrangement start (1:1:1).

Shift Controls

Press and hold MPC Live II's **Shift** button, and then press the following buttons for additional actions.

#	Device Control	Ableton Live Function
2	Pads	Selects a clip without launching it.
5	Q-Link Button	Move backward between Q-Link Banks 1–4.
7	Bank A/E	Move the 4x4 Session Matrix focus up by eight rows.
8	Bank B/F	Move the 4x4 Session Matrix focus down by eight rows.
9	Bank C/G	Move the 4x4 Session Matrix focus left by eight columns.
10	Bank D/H	Move the 4x4 Session Matrix focus right by eight columns.
13	Undo	Redo the last action.
16	Tap	Toggle the metronome on and off.
19	Stop	Stop playback and return song position to 1:1:1.

Technical Specifications

Specifications are subject to change without notice.

MPC X / MPC X Special Edition

Digital Audio System	**ADCs**	24-bit @ 44.1, 48, or 96 kHz
	DACs	24-bit @ 44.1, 48, or 96 kHz
	Digital Signal Processing	32-bit floating point
Mic Inputs 1–2 (2) balanced XLR+1/4" (6.35 mm) TRS	**Dynamic Range**	112 dB (A-weighted)
	SNR	111 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.003% (1 kHz, +4 dBu, -1 dBFS)
	Preamp EIN	-135 dBu (max gain, 40 Ω source, A-weighted) -129.5 dBu (max gain, 150 Ω source, unweighted)
	Frequency Response	20 Hz – 20 kHz (+0.2 / -0.2 dB)
	Maximum Input Level	+12.5 dBu
	Sensitivity	-46 dBu
	Gain Range	58 dB
Line Inputs 1–2 (2) balanced XLR+1/4" (6.35 mm) TRS	**Dynamic Range**	114 dB (A-weighted)
	SNR	112 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.003% (1 kHz, +4 dBu, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.1 / -0.1 dB)
	Maximum Input Level	+20 dBu
	Sensitivity	-9.5 dBu
	Gain Range	29.5 dB
Line Inputs 3–4 (2) balanced 1/4" (6.35 mm) TRS	**Dynamic Range**	114.5 dB (A-weighted)
	SNR	112.5 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.003% (1 kHz, +4 dBu, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.1 / -0.1 dB)
	Maximum Input Level	+20 dBu
	Sensitivity	-10 dBu
	Gain Range	30 dB
Inst Inputs 1–2 (2) unbalanced 1/4" (6.35 mm) TS	**Dynamic Range**	113.5 dB (A-weighted)
	SNR	111.5 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.003% (1 kHz, +4 dBu, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.1 / -0.2 dB)
	Maximum Input Level	+10 dBu
	Sensitivity	-20 dBu
	Gain Range	30 dB
	Input Impedance	~ 1 MΩ

Phono Inputs (2) unbalanced RCA	**Dynamic Range**	108 dB (A-weighted, 63 mVrms @ 1kHz, -1 dBFS, 20 Ω source)
	SNR	86 dB (A-weighted, 4 mVrms @ 1kHz, 20 Ω source)
	THD+N	0.005% (1 kHz, -46 dBu, -1 dBFS)
	Maximum Input Level	63 mVrms (1 kHz)
	Sensitivity	2 mVrms (1 kHz)
Main Outputs 1–2 (2) impedance-balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	114 dB (A-weighted)
	THD+N	0.006% (1 kHz, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.2 dB)
	Maximum Output Level	+20 dBu
	Output Impedance	100 Ω
Outputs 3–4 (2) impedance-balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	114 dB (A-weighted)
	THD+N	0.006% (1 kHz, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.2 dB)
	Maximum Output Level	+20 dBu
	Output Impedance	100 Ω
Outputs 5–8 (4) impedance-balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	118.5 dB (A-weighted)
	THD+N	0.001% (1 kHz, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.1 / -0.0 dB)
	Maximum Output Level	+20 dBu
	Output Impedance	100 Ω
Headphone Outputs (1) 1/4” (6.35 mm) stereo headphone (1) 1/8” (3.5 mm) stereo headphone	**Dynamic Range**	111 dB (A-weighted)
	THD+N	0.007% (1 kHz, -1 dBFS, 10 mW/channel into 32 Ω headphones)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.2 dB)
	Maximum Power Delivered	360 mW (<1% THD)
	Maximum Output Level	+20 dBu

Mechanical	**Pads**	(16) velocity- and pressure-sensitive pads, RGB-backlit (8) banks accessible via Pad Bank buttons
	Knobs	(16) 360° touch-sensitive Q-Link knobs for parameter adjustment (7) 270° knobs for gain, mix & level adjustment (1) 360° encoder for value/data adjustment
	Display	10.1” (25.6 cm) full-color 1280x800 display with capacitive multi-touch
Memory	**RAM**	2 GB (MPC X) 4 GB (MPC X Special Edition)
	Internal Storage	16 GB (MPC X) (6 GB user storage) 48 GB (MPC X Special Edition) (10 GB user storage) Expandable via SATA connections
File System Compatibility		exFAT (read & write) (recommended) FAT32 (read & write) NTFS (read & write) EXT4 (read & write) HFS+ (read only) Audio Files: AIF/AIFF, FLAC, MP3, OGG, WAV
Connections		(2) XLR+1/4” (6.35 mm) TRS inputs (Input 1/2) (2) 1/4” (6.35 mm) TRS inputs (Input 3/4: 1 stereo pair) (2) 1/4” (6.35 mm) TS instrument inputs (Inst 1/2) (2) RCA inputs (Input 3/4: 1 stereo pair, phono- or line-level) (2) 1/4” (6.35 mm) TS footswitch inputs (FS 1/2) (2) 5-pin MIDI inputs (8) 1/4” (6.35 mm) TRS outputs (Main L/R, Outputs 3/4–7/8: 4 stereo pairs) (4) 5-pin MIDI outputs (8) 1/8” (3.5 mm) CV/Gate outputs (1) 1/4” (6.35 mm) stereo headphone output (1) 1/8” (3.5 mm) stereo headphone output (2) USB Type-A ports (1) USB Type-B port (1) SD card slot (1) power adapter input
Power		via power adapter: 19 V, 3.42 A, center-positive, included
Dimensions (width x depth x height)		19.9” x 16.7” x 3.4” / 50.5 x 42.4 x 8.7 cm (display flat) 19.9” x 15.3” x 8.4” / 50.5 x 38.8 x 21.4 cm (display upright)
Weight		12.57 lb. 5.66 kg

MPC Live

Digital Audio System	**ADCs**	24-bit @ 44.1, 48, or 96 kHz
	DACs	24-bit @ 44.1, 48, or 96 kHz
	Digital Signal Processing	32-bit floating point
Line Inputs (2) balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	113.5 dB (A-weighted)
	SNR	108 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.001% (1 kHz, +4 dBu, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.1 dB)
	Maximum Input Level	+11 dBu
	Sensitivity	-13.5 dBu
	Gain Range	24.5 dB
Phono Inputs (2) unbalanced RCA	**Dynamic Range**	107 dB (A-weighted, 63 mVrms @ 1 kHz, -1 dBFS, 20 Ω source)
	SNR	86 dB (A-weighted, 4 mVrms @ 1 kHz, 20 Ω source)
	THD+N	0.009% (1 kHz, -46 dBu, -1 dBFS)
	Maximum Input Level	63 mVrms (1 kHz)
	Sensitivity	2 mVrms (1 kHz)
Main Outputs 1–2 (2) impedance-balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	113 dB (A-weighted)
	THD+N	0.002% (1 kHz, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.5 dB)
	Maximum Output Level	+9 dBu
	Output Impedance	100 Ω
Outputs 3–6 (4) impedance-balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	116 dB (A-weighted)
	THD+N	0.001% (1 kHz, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.1 dB)
	Maximum Output Level	+9 dBu
	Output Impedance	100 Ω
Headphone Output (1) 1/8” (3.5 mm) stereo headphone	**Dynamic Range**	112 dB (A-weighted)
	THD+N	0.005% (1 kHz, -1 dBFS, 10 mW/channel into 32 Ω headphones)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.2 dB)
	Maximum Power Delivered	+35 mW (<1% THD, 32 Ω headphones)
	Maximum Output Level	+10 dBu

Mechanical	**Pads**	(16) velocity- and pressure-sensitive pads, RGB-backlit (8) banks accessible via Pad Bank buttons
	Knobs	(4) 360° touch-sensitive Q-Link knobs (4) Q-Link knob columns accessible via Q-Link button (1) 360° encoder for value/data adjustment and selection via push
	Display	7” (17.8 cm) full-color 1280x800 display with capacitive multi-touch
Memory	**RAM**	2 GB
	Internal Storage	16 GB (6 GB user storage + 10 GB pre-installed content) Expandable via SATA connections
File System Compatibility		exFAT (read & write) (recommended) FAT32 (read & write) NTFS (read & write) EXT4 (read & write) HFS+ (read only) Audio Files: AIF/AIFF, FLAC, MP3, OGG, WAV
Connections		(2) 1/4” (6.35 mm) TRS inputs (1 stereo pair) (6) 1/4” (6.35 mm) TRS outputs (3 stereo pairs) (1) 1/8” (3.5 mm) stereo headphone output (2) RCA inputs (1 stereo pair) (2) 5-pin MIDI inputs (2) 5-pin MIDI outputs (2) USB Type-A ports (1) USB Type-B port (1) SD card slot (1) power adapter input
Power		via power adapter: 19 V, 3.42 A, center-positive, included via battery: lithium-ion, rechargeable, up to 6 hours of battery life
Dimensions (width x depth x height)		16.7” x 8.8” x 2.7” 42.4 x 22.4 x 6.9 cm
Weight		5.9 lb. 2.7 kg

MPC Live II

Digital Audio System	**ADCs**	24-bit @ 44.1, 48, or 96 kHz
	DACs	24-bit @ 44.1, 48, or 96 kHz
	Digital Signal Processing	32-bit floating point
Line Inputs (2) balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	113 dB (A-weighted)
	SNR	108.5 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.001% (1 kHz, +4 dBu, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.1 dB)
	Maximum Input Level	+16.5 dBu
	Sensitivity	-13 dBu
	Gain Range	29.5 dB
Phono Inputs (2) unbalanced RCA	**Dynamic Range**	108.5 dB (A-weighted, 74 mVrms @ 1 kHz, -1 dBFS, 20 Ω source)
	SNR	87 dB (A-weighted, 4 mVrms @ 1 kHz, 20 Ω source)
	THD+N	0.011% (1 kHz, -46 dBu, -1 dBFS)
	Maximum Input Level	74 mVrms (1 kHz)
	Sensitivity	2 mVrms (1 kHz)
Main Outputs 1–2 (2) impedance-balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	118 dB (A-weighted)
	THD+N	0.001% (1 kHz, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.2 dB)
	Maximum Output Level	+9 dBu
	Output Impedance	100 Ω
Outputs 3–4 (2) impedance-balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	116.5 dB (A-weighted)
	THD+N	0.001% (1 kHz, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.1 dB)
	Maximum Output Level	+9 dBu
	Output Impedance	100 Ω
Outputs 5–6 (2) impedance-balanced 1/4” (6.35 mm) TRS	**Dynamic Range**	112.5 dB (A-weighted)
	THD+N	0.002% (1 kHz, -1 dBFS)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.1 dB)
	Maximum Output Level	+9 dBu
	Output Impedance	100 Ω

Headphone Output (1) 1/8” (3.5 mm) stereo headphone	**Dynamic Range**	111 dB (A-weighted)
	THD+N	0.003% (1 kHz, -1 dBFS, 10 mW/channel into 32 Ω headphones)
	Frequency Response	20 Hz – 20 kHz (+0.0 / -0.2 dB)
	Maximum Power Delivered	+35 mW (<1% THD, 32 Ω headphones)
	Maximum Output Level	+10 dBu
	Output Impedance	32 Ω
Pads	(16) velocity- and pressure-sensitive pads, RGB-backlit (8) banks accessible via Pad Bank buttons	
Knobs	(4) 360° touch-sensitive Q-Link Knobs (4) Q-Link Knob columns accessible via Q-Link button (1) 360° encoder for display navigation and selection via push	
Buttons	(27) dedicated function buttons; red-, amber-, or green-backlit	
Display	6.9” / 176 mm (diagonal) 5.9” x 3.7” / 150 x 93 mm (width x height) Full-color LED-backlit display with touch interface	
CPU	**Processor**: Quad-core ARM® processor **RAM**: 2 GB **Storage**: 16 GB, expandable via SATA connections	
Connections	(2) 1/4” (6.35 mm) TRS inputs (1 stereo pair) (6) 1/4” (6.35 mm) TRS outputs (3 stereo pairs) (1) 1/4” (6.35 mm) stereo headphone output (2) RCA inputs (1 stereo pair) (2) 5-pin MIDI inputs (2) 5-pin MIDI outputs (4) Stereo CV/Gate outputs (1) Ethernet link port (2) USB Type-A ports (1) USB Type-B port (1) SD card slot (1) power adapter input	
Power	**via power adapter:** 19 V, 3.42 A, center-positive, included **via battery:** lithium-ion, rechargeable, up to 4 hours of battery life	
Dimensions (width x depth x height)	16.2” x 9.6” x 1.8” 411.5 x 243.8 x 45.7 mm	
Weight	7.45 lbs. 3.38 kg	

MPC One / MPC One+

Digital Audio System	**ADCs**	24-bit @ 44.1, 48, or 96 kHz
	DACs	24-bit @ 44.1, 48, or 96 kHz
	Digital Signal Processing	32-bit floating point
Line Inputs 1–2 (2) balanced 1/4" (6.35 mm) TRS	**Frequency Response**	20 Hz – 20 kHz (+0/-0.8 dB)
	Dynamic Range	113 dB (A-weighted)
	Signal-to-Noise Ratio	111 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.002% (1 kHz, +4 dBu, -1 dBFS)
	Max Input Level	+16 dBu
	Sensitivity	-13.5 dBu
	Gain Range	29.5 dB
Line Outputs 1–2 (2) balanced 1/4" (6.35 mm) TRS	**Frequency Response**	20 Hz – 20 kHz (+0/-0.8 dB)
	Dynamic Range	113 dB (A-weighted)
	THD+N	0.003% (1 kHz, -1 dBFS)
	Maximum Output Level	+9 dBu
	Output Impedance	100 Ω
Headphone Output (1) 1/8" (3.5 mm) stereo headphone	**Frequency Response**	20 Hz – 20 kHz (+0/-0.8 dB)
	Dynamic Range	112.5 dB (A-weighted, 32Ω)
	THD+N	0.006% (1 kHz, -1 dBFS, 32Ω)
	Maximum Output Level	28.8 mW @ 32Ω
Mechanical	**Pads**	(16) velocity- and pressure-sensitive pads, RGB-backlit (8) banks accessible via Pad Bank buttons
	Knobs	(4) 360° touch-sensitive Q-Link Knobs (4) Q-Link Knob columns accessible via Q-Link button (1) 360° encoder for display navigation and selection via push
	Buttons	(31) dedicated function buttons; red-, amber-, or green-backlit
	Display	7.0" / 177 mm (diagonal) 5.9" x 3.7" / 151 x 94 mm (width x height) Full-color LED-backlit display with touch interface
CPU	**Processor**: Quad-core ARM® processor **RAM**: 2 GB **Storage**: 2 GB user storage, 2 GB pre-installed content (MPC One) 16 GB internal storage, 7.8 GB user storage (MPC One+)	

File System Compatibility	exFAT (read & write) (recommended) FAT32 (read & write) NTFS (read & write) EXT4 (read & write) HFS+ (read only) Audio Files: AIF/AIFF, FLAC, MP3, OGG, WAV
Connections	(2) 1/4” (6.35 mm) TRS inputs (1 stereo pair) (2) 1/4” (6.35 mm) TRS outputs (1 stereo pair) (1) 1/8” (3.5 mm) stereo headphone output (1) 5-pin MIDI inputs (1) 5-pin MIDI outputs (4) CV/Gate outputs (1) USB Type-A port (1) USB Type-B port (1) SD card slot (1) power adapter input
Power	via included power adapter: **MPC One:** 19 V, 3.42 A, center-positive **MPC One+:** 12 V, 3 A, center-positive
Dimensions (width x depth x height)	10.7” x 10.7” x 2.1” 272 x 272 x 53 mm
Weight	4.7 lbs. 2.1 kg

MPC Key 61

Digital Audio System	**ADCs**	24-bit @ 44.1, 48, or 96 kHz
	DACs	24-bit @ 44.1, 48, or 96 kHz
	Digital Signal Processing	32-bit floating point
Mic Inputs1–2 (2) balanced XLR+1/4" (6.35 mm) TRS	**Frequency Response**	20 Hz – 20 kHz (+0.2 / -1.0 dB)
	Dynamic Range	111 dB (A-weighted)
	SNR	110 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.002% (1 kHz, +4 dBu, -1 dBFS)
	Preamp EIN	-130 dBu (max gain, 40 Ω source, A-weighted) -128 dBu (max gain, 150 Ω source, unweighted)
	Maximum Input Level	+13 dBu
	Sensitivity	-46 dBu
	Gain Range	59 dB
Line Inputs 1–2 (2) balanced XLR+1/4" (6.35 mm) TRS	**Frequency Response**	20 Hz – 20 kHz (+0.2 / -1.0 dB)
	Dynamic Range	112 dB (A-weighted)
	SNR	111 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.001% (1 kHz, +4 dBu, -1 dBFS)
	Maximum Input Level	+20 dBu
	Sensitivity	-11 dBu
	Gain Range	31 dB
Inst Inputs 1–2 (2) unbalanced 1/4" (6.35 mm) TS	**Frequency Response**	20 Hz – 20 kHz (+0.2 / -1.0 dB)
	Dynamic Range	112 dB (A-weighted)
	SNR	106 dB (1 kHz, +4 dBu, A-weighted)
	THD+N	0.001% (1 kHz, +4 dBu, -1 dBFS)
	Maximum Input Level	+16 dBu
	Sensitivity	-15 dBu
	Gain Range	31 dB
	Input Impedance	1 MΩ
Main Outputs 1–2 (2) impedance-balanced 1/4" (6.35 mm) TRS	**Frequency Response**	20 Hz – 20 kHz (+0.03 / -0.2 dB)
	Dynamic Range	115 dB (A-weighted)
	THD+N	0.004% (1 kHz, -1 dBFS)
	Maximum Output Level	+16 dBu
	Output Impedance	50 Ω

Outputs 3–4 (2) impedance-balanced 1/4” (6.35 mm) TRS	**Frequency Response**	20 Hz – 20 kHz (+0.03 / -0.2 dB)
	Dynamic Range	115 dB (A-weighted)
	THD+N	0.004% (1 kHz, -1 dBFS)
	Maximum Output Level	+16 dBu
	Output Impedance	50 Ω
Headphone Output (1) 1/4” (6.35 mm) stereo headphone	**Frequency Response**	20 Hz – 20 kHz (+0.05 / -0.2 dB)
	Dynamic Range	108 dB (A-weighted)
	THD+N	0.004% (1 kHz, 10 mW per channel into 32 Ω headphones)
	Maximum Output Level	+6 dBu (unloaded)
	Power Output	40 mW RMS (per channel into 32 Ω headphones)
Mechanical	**Keys**	61 semi-weighted keys with aftertouch
	Pads	(16) velocity- and pressure-sensitive pads, RGB-backlit (8) banks accessible via Pad Bank buttons
	Knobs	(4) 360° touch-sensitive Q-Link knobs (4) Q-Link Knob columns accessible via Q-Link button (1) 360° encoder for value/data adjustment
	Buttons	(44) dedicated function buttons; white-, red-, or green-backlit
	Touch Strip	(1) Multi-function, touch-capacitive control strip 0.8” x 4.4” / 20 x 113 mm (width x height)
	Display	7” / 177 mm (diagonal) Full-color LED-backlit display with touch interface
Memory	**RAM**	4 GB
	Internal Storage	32 GB Expandable via SATA connections
File System Compatibility	exFAT (read & write) (recommended) FAT32 (read & write) NTFS (read & write) EXT4 (read & write) HFS+ (read only) Audio Files: AIF/AIFF, FLAC, MP3, OGG, WAV	

Connections	(2) 1/4” (6.35 mm) Combo XLR/TRS inputs (1 stereo pair) (1) 1/4” (6.35 mm) TRS sustain pedal input (TS compatible) (1) 1/4” (6.35 mm) TRS footswitch pedal input (TS compatible) (1) 1/4” (6.35 mm) TRS expression pedal input (TS compatible) (4) 1/4” (6.35 mm) TRS outputs (2 stereo pairs) (1) 1/4” (6.35 mm) stereo headphone output (8) 1/8” (3.5 mm) TS mono CV/Gate outputs (1) 5-pin MIDI inputs (1) 5-pin MIDI outputs (1) 5-pin MIDI thru-port (1) Ethernet link port (2) USB Type-A ports (1) USB Type-B port (1) IEC power input
Power	100 V – 240 V AC, 50/60 Hz, 65 W
Dimensions (width x depth x height)	38.8” x 12.3” x 3.8” 986 x 313 x 96.7 mm
Weight	17.9 lbs. 8.1 kg

MPC Key 37

Digital Audio System	**ADCs**	24-bit @ 44.1, 48, or 96 kHz
	DACs	24-bit @ 44.1, 48, or 96 kHz
	Digital Signal Processing	32-bit floating point
Line Inputs 1–2 (2) balanced 1/4” (6.35 mm) TRS or unbalanced 1/4” (6.35 mm) TS	**Frequency Response**	20 Hz – 20 kHz (+0.2/-0.5 dB)
	Signal-to-Noise Ratio	107 dB (1 kHz, +6 dBV, A-weighted)
	THD+N	0.004% (1 kHz, +6 dBV, 0 dBFS)
	Max Input Level	+12 dBV
	Sensitivity	-10 dBV
	Gain Range	27 dB
Line Outputs 1–2 (2) impedance-balanced 1/4” (6.35 mm) TRS	**Frequency Response**	20 Hz – 20 kHz (+0.2/-0.5 dB)
	Dynamic Range	112 dB (A-weighted)
	THD+N	0.004% (1 kHz, 0 dBFS)
	Maximum Output Level	+6 dBV
	Output Impedance	100 Ω
Headphone Output (1) 1/8” (3.5 mm) stereo headphone	**Frequency Response**	20 Hz – 20 kHz (+0.2/-0.5 dB)
	Dynamic Range	112 dB (A-weighted)
	THD+N	0.006% (1 kHz, 10mW per channel into 32Ω)
	Maximum Output Level	40 mW RMS (per channel into 32Ω)
Mechanical	**Keys**	37 synth-action keys with aftertouch
	Pads	(16) velocity- and pressure-sensitive pads, RGB-backlit (8) banks accessible via Pad Bank buttons
	Knobs	(4) 360° touch-sensitive Q-Link knobs (4) Q-Link Knob columns accessible via Q-Link button (1) 360° encoder for value/data adjustment
	Buttons	(38) dedicated function buttons; white-, red-, or green-backlit
	Display	7” / 177 mm (diagonal) Full-color LED-backlit display with touch interface
Memory	**RAM**	2 GB
	Internal Storage	32 GB

File System Compatibility	exFAT (read & write) (recommended) FAT32 (read & write) NTFS (read & write) EXT4 (read & write) HFS+ (read only) Audio Files: AIF/AIFF, FLAC, MP3, OGG, WAV	
Wi-Fi	**Frequency**	2.4 GHz / 5 GHz
	Standard	802.11a/b/g/n/ac
	Max. Power	2.4 GHz Wi-Fi: +17 dBm 5 GHz Wi-Fi: +17 dBm
Bluetooth	**Version**	5
	Profile	HID, A2DP
	Max. Power	+10 dBm
Connections	(2) 1/4” (6.35 mm) TRS inputs (1 stereo pair) (1) 1/4” (6.35 mm) TRS sustain pedal input (TS compatible) (1) 1/4” (6.35 mm) TRS footswitch pedal input (TS compatible) (1) 1/4” (6.35 mm) TRS expression pedal input (TS compatible) (2) 1/4” (6.35 mm) TRS outputs (1 stereo pair) (1) 1/4” (6.35 mm) stereo headphone output (4) 1/8" (3.5 mm) TRS stereo CV/Gate outputs (1) USB Type-A port (1) USB Type-B port (1) 5-pin MIDI input (1) 5-pin MIDI output (1) Power adapter input	
Power	via included 12 V, 3 A, center-positive power adapter	
Dimensions (width x depth x height)	22.92” x 12.36” x 4.08” 58.22 x 31.39 x 10.36 cm	
Weight	8.82 lbs. 4 kg	

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Addenda

MPC Pro Pack

The MPC Pro Pack can be purchased as an upgrade for all Gen 1 MPC standalone hardware running MPC v3.6 or later.

To purchase the MPC Pro Pack, visit **thempcstore.com** / **akaipro.com**. You can unlock the Pro Pack on up to three supported devices.

To unlock the Pro Pack, use the **Activations** tab of the Preferences.

MPC Clip Launching

The MPC Pro Pack brings the full clip-launching workflow of the Akai Force to your MPC. Once the MPC Pro Pack is activated, you must enable Clip Workflow by doing the following:

1. Press **Menu** to open the Menu, and then select **Preferences.**
2. In the Project Defaults tab, tap the **Use Clip Workflow** box to enable clip workflow.

   Turning this feature on or off requires you to restart your MPC hardware. If you have unsaved changes in your project, you will be prompted to save before restarting.

When Clip Launch functionality is activated, you will have access to three additional MPC modes for working with clips:

- ***Clip Matrix Mode***
- ***Navigate Mode***
- ***Clip Editor Mode***

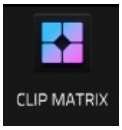
Additionally, the ***Arrangement Section*** of ***Main Mode*** includes expanded functionality for clips.

When importing an MPC2 project into MPC3 with Clip Workflow enabled, you will be prompted with a Project Import dialog with the following options:

Use the **Destination** field to select whether to import project data into **Sequences** or the **Clip Matrix**.

Use the **Import** field to select whether to import **All Sequences** or **Selected Sequences**. Tap the boxes to select Sequences to import.

Clip Matrix Mode



Clip Matrix Mode gives you an overview of your tracks and clips.

To enter Clip Matrix Mode, press **Menu** and then navigate to **Clip Matrix** on the second page of modes and tap it.

Double-tap an empty clip slot to create a new clip. Alternatively, tap and hold on an empty clip slot, and then tap **Create**.

Tap an existing clip to launch it.

Tap the **scene launch icons** on the far right of the display to launch a scene.

Tap the **+** icon at the top of the display to add a new track. If your project already has 8 tracks, move the Matrix view to the right to show this icon.

Tap the **Move** buttons at the bottom of the touchscreen to move the current matrix display view. To move the display by eight rows or columns at a time, hold **Shift** and tap the **Move 8** buttons.

Tap the **Pads:** button at the bottom of the touchscreen to change the hardware pad functions:

Select **Notes** to use the pads in Pad Perform mode to play notes or chords.

Select **Clip Launch** to use the pads to launch clips. Each pad will represent a clip in the current focus view of the 8x8 Clip Matrix. The focus view will be shown on the screen in a white outline. To move the focus view, tap the **Move** buttons at the bottom of the screen, or press the **Bank** buttons on your MPC hardware. This will move the current view by one row or column at a time. You can also press and hold **Shift** and then tap the **Move** buttons or press the **Bank** buttons to move the view by four rows or columns at a time.

Note: The focus view labeling can be adjusted using the ***Launch Configuration*** window.

Select **Row Launch** to use the pads to launch an entire row, or scene. Row 1 will begin with Pad 13, then move left-to-right and down for each available row.

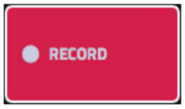
Tap **Buses** to view the Submixes, Returns, and Output tracks. You can create and launch clips for automation on these tracks using the same methods as tracks, explained below.

The clips in Clip Matrix Mode will change appearance based on their current status:

Stopped, playback stopped

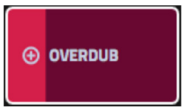
Prepared to record

Stopped, playback active



Recording

Prepared to play (flashing)



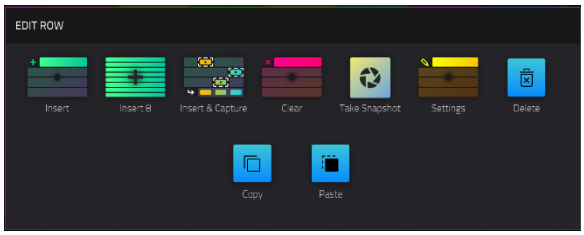
Overdubbing

Playing

Exiting recording

Prepared to stop (flashing)

To insert a new scene or clear a scene, tap and hold on a **Scene Launch** button to open the **Edit Row** window.



Tap **Insert** to insert one new scene row.

Tap **Insert 8** to insert 8 new scene rows.

Tap **Insert & Capture** to capture any clips currently playing in other scenes and add it to the new scene.

Tap **Clear** to clear the currently selected scene.

Tap **Snapshot** to take a snapshot of all automation parameters in each row using the Row Launch buttons. Once a snapshot has been captured to a row, the saved state of all automation settings will be relaunched with the event data on that row. **To clear a snapshot from a row,** tap **Clear Snapshot** from the Edit Row window.

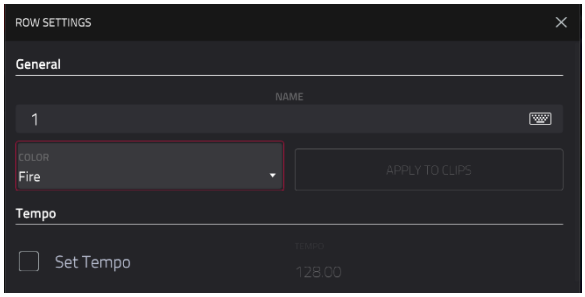
Tap **Settings** to open the ***Row Settings*** window.

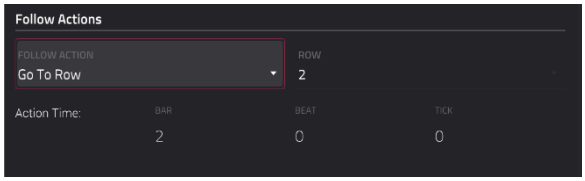
Tap **Delete** to delete the currently selected scene, including all clips. All subsequent scenes below this will be moved up.

Tap **Copy** to copy the currently selected scene and all clips. Once a scene has been copied, tap **Paste** from the **Edit Row** window to copy the scene and its contents to the selected row.

To edit track settings, double-tap the track name at the top of the display. See ***General Features*** > ***Tracks*** for more information on editing track settings. In addition to the settings shown there, an additional **Row Launch** setting is available. Use this field to determine the behavior of clips in the track when launching scenes. Select **Include in row launch** to launch the track's clips when launching scenes, or select **Exclude from row launch** to stop the track's clips from launching with the scene.

The Row Settings window (accessed from the Edit Row window, ***above***) allows you to configure settings for the selected scene.





Use the **Name** field to rename the row. Tap it and use the virtual keyboard that appears.

Use the **Color** field to set the row color. Tap the **Apply to Clips** button to apply this color to all clips in the row.

Check the **Set Tempo** box to change the sequence tempo when the scene is launched. Use the **Tempo** field to set the new tempo in beats per minute. If the tempo is set to **GBL** (global), then row tempo settings will be ignored and the tempo will remain at the global setting.

Use the **Follow Action** field to apply one of the following behaviors to the row after it is launched. Once a Follow Action is selected, use the **Action Time** field to set when the action is triggered, in Bars:Beats:Ticks.

Go To Row: Move to the Row set by the **Row** field.

To Previous: Move to the previous row. If the scene playing is the first row in the Matrix, playback will stop after the action time is reached.

To Previous or Last: Move to the previous row, or to the last row in the Matrix if the scene playing is the first row in the Matrix.

To Next: Move to the next row. If the scene playing is the last row in the Matrix, playback will stop after the action time is reached.

To Next or First: Move to the next row, or back to the first row if the scene playing is the last row in the Matrix.

To Previously Playing: Move to the last played scene.

To Random (Include This): Move to a random scene, including the one currently playing.

To Random (Exclude This): Move to a random scene, not including the one currently playing.

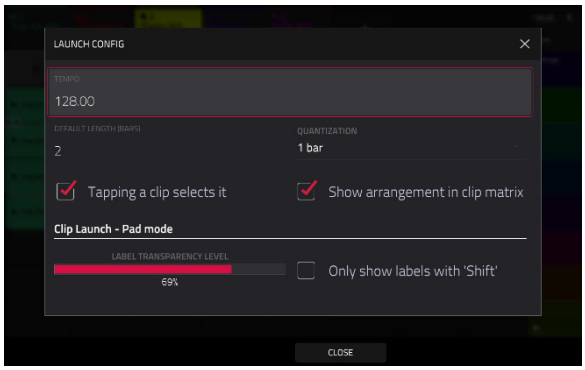
Back to Arrange: Return to the arrangement after the action time is reached.

Stop: Stop playback after the action time is reached.

Tap the **Apply to All Rows** field to apply the Follow Action to all rows in the matrix.

Tap the **Clear All** button to clear all set Follow Actions.

To open the Launch Configuration window, tap the upper-right corner of the display where the BPM and Launch Quantization are located. You can then do any of the following:



Use the **Tempo** field to set the project tempo. Use the **data dial** or **-/+** buttons to change the tempo, or double-tap the field to open the number pad. Alternatively, use the **tap tempo** button to set the tempo.

Use the **Default Length** field to set the default clip length for the project.

Use the **Quantization** field to set the global quantization amount for launching all clips.

Use the **Empty Slots** field to determine the appearance of clip launch pads without clips. Select **Dim** for the pads to be dimly lit in the track color, or **Off** for the pads to be completely dark.

Check the **Tapping a clip selects it** box to automatically select a clip when pressed. When enabled, this allows you to instantly view the triggered clip in other modes once tapped. When unchecked, clip focus will remain on the selected pad, which can be chosen by holding **Clip Select** or **Shift** and tapping a clip launch pad.

Check the **Show arrangement in clip matrix** box to view the arrangement row in the clip matrix.

Use the **Label Transparency Level** slider to adjust the appearance of the Clip Matrix focus view when the pads are in Clip Launch mode.

Check the **Only show labels with 'Shift'** box to only display the Bank Button direction labels in the focus view while **Shift** is held.

Tap **Close**, the **X**, or outside the window to close the Launch Configuration window and return to Clip Matrix Mode.

You can also tap and hold your finger on a clip slot to quickly access the following functions. For clip slots with clips in them:

Tap **Copy** to copy the selected clip.

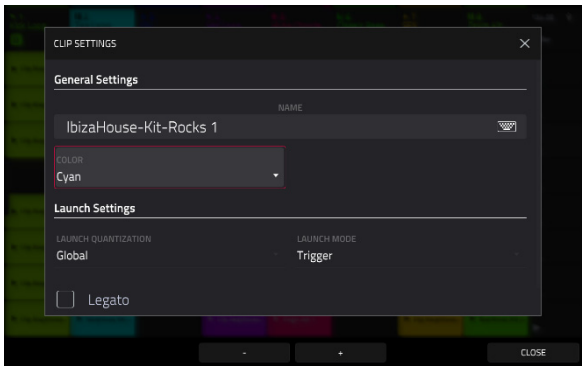
Tap **Copy To Arrangement** to copy the selected clip contents to the linear arrangement timeline.

Tap **Delete** to delete the selected clip.

Tap **Edit Clip** to open the ***Clip Editor*** for the selected clip.

Tap **Edit Event** to open ***Grid View*** for the selected clip.

Tap **Settings** to open the **Clip Settings** window.



Use the **Name** field to rename the clip. Tap it and use the virtual keyboard that appears.

Use the **Color** field to set the clip color.

Use the **Launch Quantization** field to set the quantization amount for launching the clip.

Use the **Launch Mode** field to set the clip launch behavior. Select **Toggle** for the clip to start or stop with each successive press. Select **Trigger** for the clip to start at the beginning with each press.

Check the **Legato** box to enable legato mode for the clip. When enabled, launching the clip will pick up playback from the same position of the previously playing clip, depending on the launch quantization value. For example, if launch quantization is set to 1 bar, launching a legato clip at Bar 1, Beat 2 of another playing clip will cause the legato clip to begin playing at Bar 2, Beat 1. If legato is off, the clip would begin playing from the start.

Tap **-/+** at the bottom of the screen to move to the previous or next clip in the track.

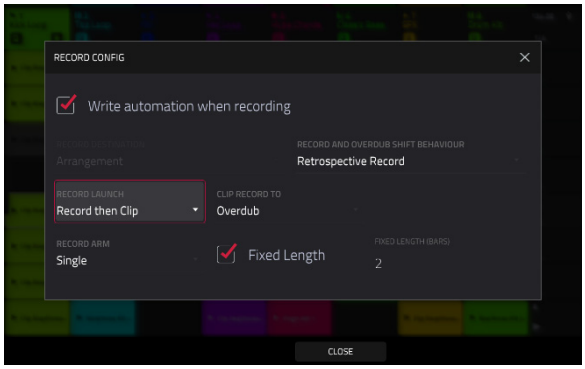
Tap **Close,** the **X**, or anywhere outside the window to close the Clip Settings window.

For empty clip slots:

Tap **Create** to create a new clip.

Tap **Paste** to paste a copied clip.

To open the Record Configuration window, press and hold **Record**, and then tap **Settings**.



Check the **Write automation when recording** box to capture automation while recording.

Use the **Record Launch** field to set how recording is initiated:

Clip: Tap any clip launch pad while the track is armed to begin recording.

Record or Clip: Tap any clip launch pad while the track is armed to begin recording, or press the **Record** button to begin recording on the highlighted clip slot.

Record then Clip: First press the record button, then tap any clip launch pad to begin recording

Record to Selection: The record destination automatically updates to the currently selected event list. Whether a clip or the Arrangement is selected, pressing the **Record** button and then Play will begin recording to the current selection. (This is the default mode when MPC is powered on).

Use the **Clip Record To** field to set the behavior when recording is completed, entering either **Overdub** or **Play**.

Use the **Record Arm** field to set the arming behavior of the **Rec Arm** button. When set to **Single**, MPC automatically record arms the current track when changing tracks and disarms any others. When set to **Multi**, you can record arm multiple tracks at the same time.

When using Single Record Arm, it is still possible to record arm multiple tracks using the ***Channel Mixer*** or ***Track View Mode***.

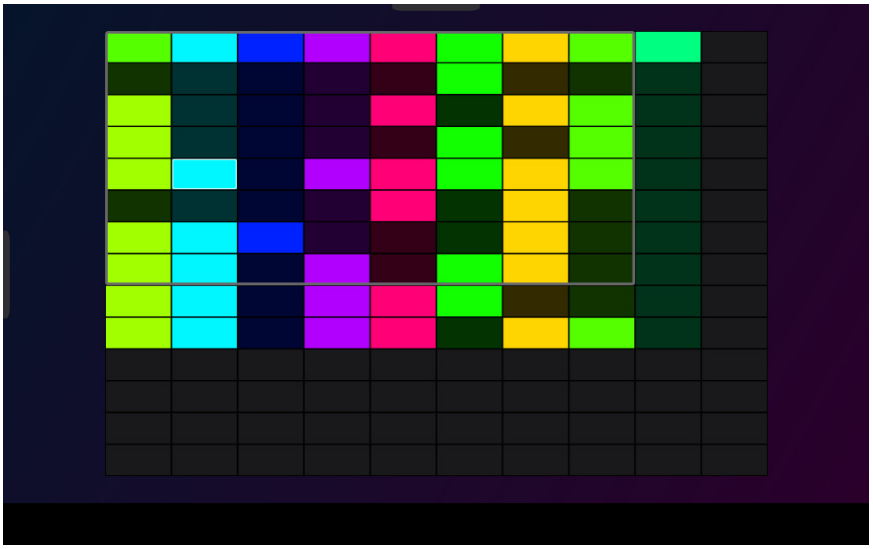
Check the **Fixed Length Recording** box to stop recording after the clip length set in the **Fixed Length (Bars)** field. Leave unchecked to record for any desired clip length.

Tap **Close**, the **X**, or outside the window to close the Record Configuration window and return to Clip Matrix Mode.

Navigate Mode

Navigate Mode lets you quickly select which 8x8 grouping of clips is currently in focus in ***Clip Matrix Mode***.

To enter Navigate Mode, press **Menu** and then navigate to **Navigate** on the second page of modes and tap it.



To move the matrix view, use your finger to tap or drag to the desired location.

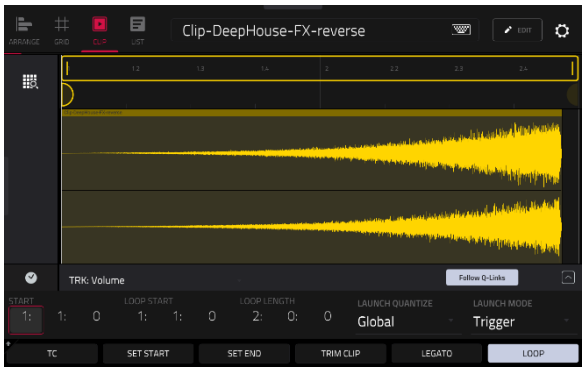
Clip Editor Mode

The Clip Editor lets you view and edit the parameters of the clip container itself. This view has three different appearances: one for audio tracks, one for drum tracks, and one for keygroup, plugin, MIDI and CV tracks.

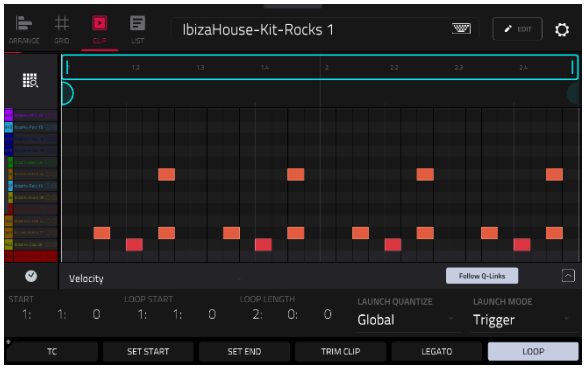
To enter the Clip Editor, do either of the following:

- Press **Menu**, press **Menu** and then navigate to **Clip Editor** on the second page of modes and tap it.
- Tap **Clip** at the top of the screen in ***Arrange Mode***, ***Grid View***, or ***List Edit Mode***.

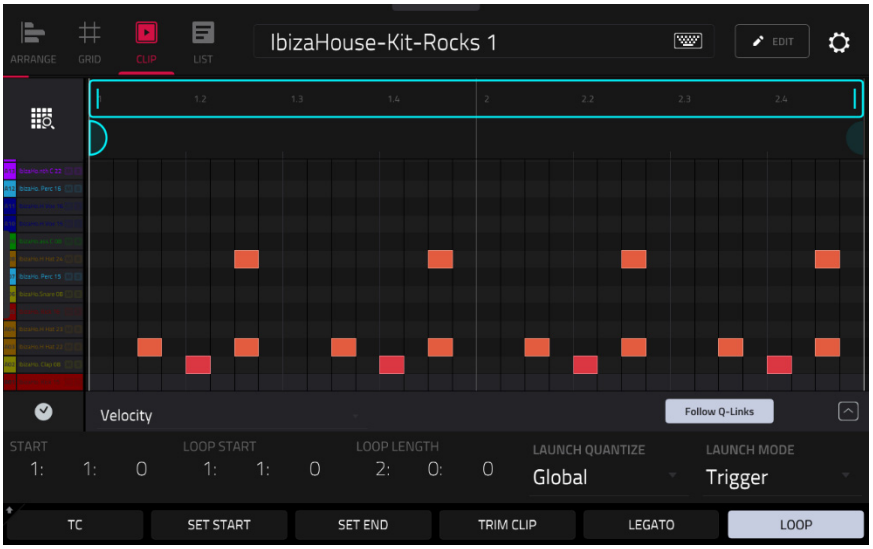
For audio tracks, the waveform of the audio clip is shown.



For drum tracks, the left column shows you all available pads in a vertical view with their corresponding events in the grid to the right.



For keygroup, plugin, MIDI and CV tracks, the left column shows a vertical “piano roll” keyboard with the corresponding events in the grid to the right.



Use the **Start** fields to set the starting location of the clip when launched. Alternatively, drag the start marker.

Use the **Loop Start** fields to set the starting location of the clip loop. Alternatively, drag the loop start marker.

Use the **Loop Length** fields to set the total length of the loop. Alternatively, drag the loop end marker

Use the **Launch Quantize** field to set the quantization for launching the clip. This can be set separately from the global launch quantization.

Use the **Launch Mode** field to set how the clip is launched. Select **Toggle** for the clip to start or stop with each successive press. Select **Trigger** for the clip to start at the beginning with each press.

Tap **TC** at the bottom of the screen to open the ***Timing Correct (TC)*** window. Alternatively, tap the **clock icon** next to the automation lane.

Tap **Set Start** or **Set End** while the clip is playing to adjust the clip start or end points. The starting point or ending point will be set at the playhead location.

To trim a clip, use the **Loop Length** fields to set the preferred length, then tap **Trim Clip** to trim the whole clip to this size.

Tap **Legato** to enable or disable legato. When Legato is active, the playhead will continue from the same position as it was in the previous clip of the same track when switching between clips. This is useful for creating seamless fills in drum breaks or when using an a capella track.

Tap **Loop** to toggle the clip loop on or off. Generally, turn Loop on for complete phrases and turn it off for one shots.

To shift the entire loop area left or right, press and hold **Shift** and tap **<< Loop** or **Loop >>**.

To halve or double the loop size, press and hold **Shift** and tap **/2** or **2X**.

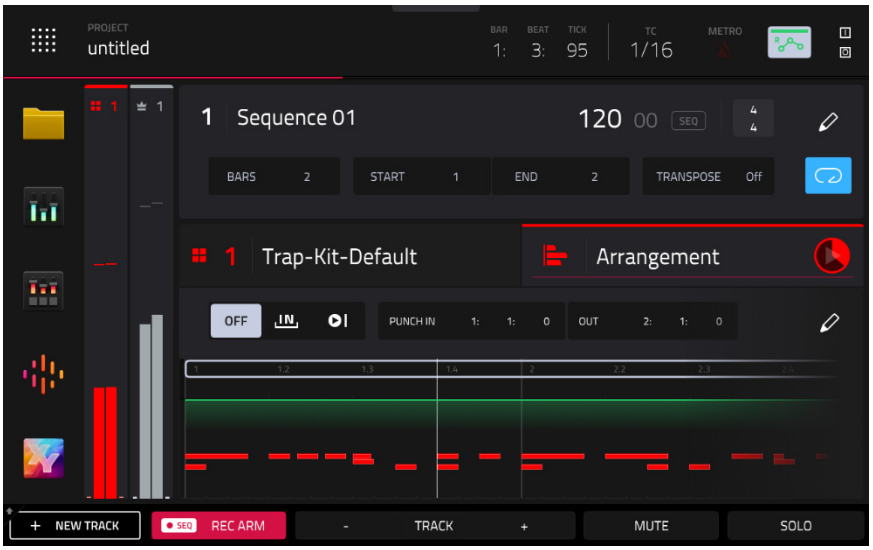
Tap the up **arrow** (^) button in the lower-right corner to view the velocity/automation lane. Velocity and automation can be edited in ***Grid View***. To hide the velocity/automation lane, tap the **down arrow** (v) when it is expanded. Tap the **Follow Q-Links** button to automatically update the current automation parameter to the selected Q-Link parameter.

The **Settings** window lets you configure certain ***Grid View*** settings.

To view the Settings, tap the **gear icon**.

Main Mode – Arrangement & Clip Section

The **Arrangement & Clip** section displays recorded events from the linear arrangement timeline or the selected clip and provides easy access to their editing functions.



The **Arrangement & Clip** header shows either the arrangement or the selected clip number and name.

To change clips, tap the **Arrangement & Clip** header and use the **data dial** or **+/-** buttons. You can also press and hold **Shift** and tap the **Clip -/+** buttons at the bottom of the screen.

Press and hold **Shift** to access these additional Function button options at the bottom of the screen:

Back to Arr: Tap this button to return the selected track back to arrangement playback.

All Track to Arr: Tap this button to return all tracks back to arrangement playback.

Clip -/+: Tap one of these buttons to switch to the previous or next clip, respectively.

Clip Stop: Tap this button to stop the current clip from playback.

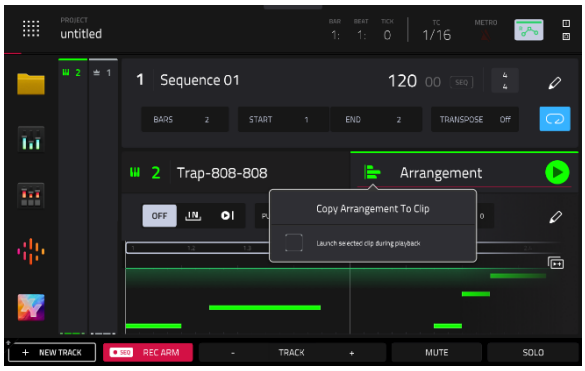
Stop All: Tap this button to stop all clips from playback.

Arrangement

Tap and hold on the **Arrangement icon** to access the following functions:

Tap **Copy Arrangement To Clip** to copy the linear arrangement for the current track to a new clip. Use the window that appears to select the clip slot destination, and then tap **Do It** to continue, or **Cancel** to return to the previous page.

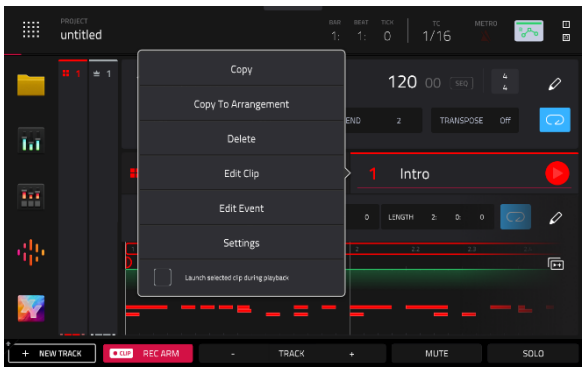
Check the **Launch selected clip during playback** option to enable automatically launching selected clips or the arrangement when selected. This can be used in conjunction with **Legato** mode to vary clips in real time with fills.



Clips

Tap the **Clip Number** in the header to access the following clip edit actions.

For clip slots with clips in them:



Tap **Copy** to copy the selected clip.

Tap **Copy To Arrangement** to copy the clip contents to the linear arrangement.

Use the **Position Bar** field to select where in the timeline the clip should be added.

Select **Replace** to replace contents of the arrangement with the clip contents at the selected location.

Select **Merge** to add the clip contents to the existing arrangement content at the selected location.

Tap **Delete** to delete the selected clip.

Tap **Edit Clip** to open the ***Clip Editor***.

Tap **Edit Event/Edit Region** to open ***Grid View***.

Tap **Settings** to open the **Clip Settings** window (explained below).

Tap **Flatten Clip** or **Flatten Clip Elastique** to flatten an audio clip, rendering all the edits and regions within the arrangement to a single new audio file. The Elastique Pro algorithm can be used for time-stretching or pitch-shifting, providing higher-quality results with less artifacts than Force's standard algorithm.

For empty clip slots:

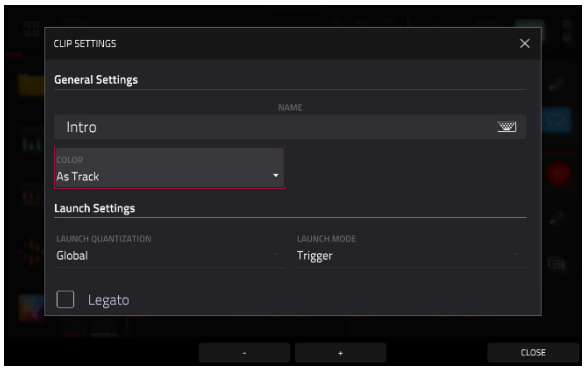
Tap **Create** to create a new clip.

Tap **Paste** to paste a copied clip.

For both filled and empty clip slots:

Check the **Launch selected clip during playback** option to enable automatically launching clips when selected. This can be used in conjunction with **Legato** mode to vary clips in real time with fills.

To edit clip settings, tap and hold on the clip name and then tap **Settings:**



Use the **Name** field to rename the clip. Tap it and use the virtual keyboard that appears.

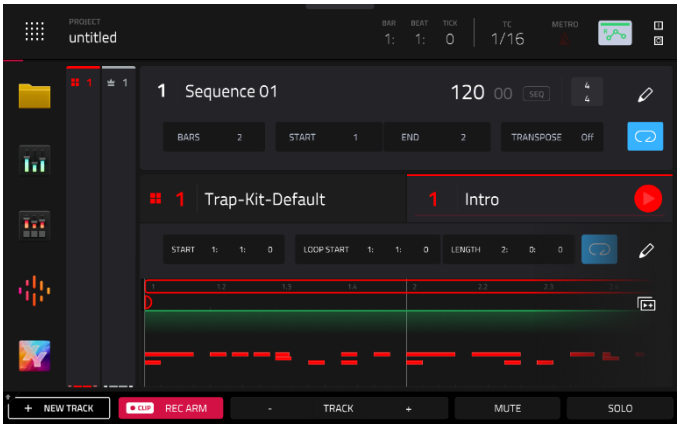
Use the **Color** field to set the clip color.

Use the **Launch Quantization** field to set the quantization amount for launching the clip.

Use the **Launch Mode** field to set the clip launch behavior. Select **Toggle** for the clip to start or stop with each successive press. Select **Trigger** for the clip to start at the beginning with each press.

Check the **Legato** box to enable legato mode for the clip. When enabled, launching the clip will pick up playback from the same position of the previously playing clip, depending on the launch quantization value. For example, if launch quantization is set to 1 bar, launching a legato clip at Bar 1, Beat 2 of another playing clip will cause the legato clip to begin playing at Bar 2, Beat 1. If legato is off, the clip would begin playing from the start.

The appearance of the clip section changes based on whether there is a loaded clip or not.



For filled clip slots:

Tap the **play icon** to begin playback of the clip.

Use the **Start** fields to set the starting location of the clip when launched. Alternatively, drag the start marker.

Use the **Loop Start** fields to set the starting location of the clip loop. Alternatively, drag the loop start marker.

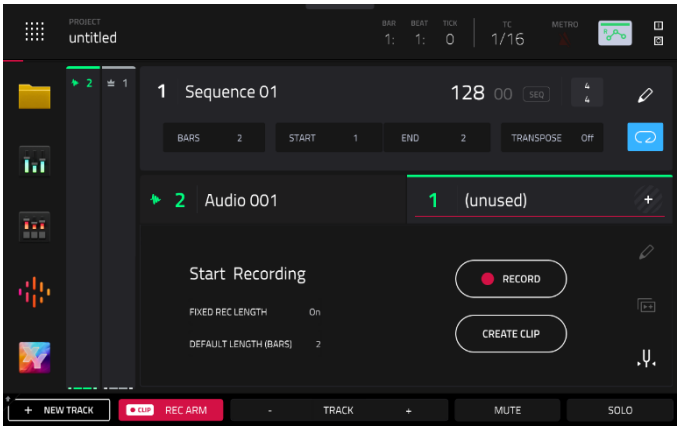
Use the **Loop Length** fields to set the total length of the loop. Alternatively, drag the loop end marker.

Tap **Loop** to toggle the clip loop on or off. Generally, turn Loop on for complete phrases and turn it off for one shots.

Double-tap on the clip timeline to open ***Grid View*** displaying the current clip.

Tap the **duplicate icon** to immediately duplicate the clip to the next empty clip slot on the current track.

When an audio track is selected, tap the **tuning fork icon** to open the ***Tuner***.



For empty clip slots:

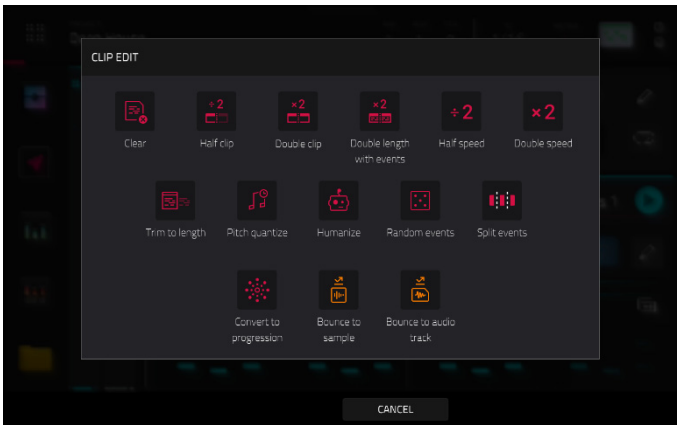
Tap the **+** icon in the header to create an empty clip in the current slot. Alternatively, tap **Create Clip** in the clip area below.

When **Clip Recording** is armed, this will turn into a **record icon**. Tap it to begin recording a new clip in the current slot. Alternatively, tap **Record** in the clip area below. Once recording begins, the clip area will switch to the filled clip appearance.

Set the **Fixed Length Recording** field to **On** to stop recording after the clip length set in the **Default Length (Bars)** field. Set to **Off** to record for any desired clip length.

When an audio track is selected, tap the **tuning fork icon** to open the ***Tuner***.

Tap the **pencil icon** to open the **Clip Edit** options for the selected clip.



The following functions are available for all track types:

The **Clear** function erases **all** events from the clip.

Tap **Clear** to confirm your choice.

Tap **Cancel** to return to the previous screen.

The **Half clip** function immediately reduces the clip length by half.

The **Double clip** function immediately doubles the clip length, without doubling the events or regions in the clip.

The **Double length with events** function immediately doubles the clip length along with all clip events or regions.

The **Double Length with Events** function **immediately** doubles the length of the clip and duplicates the events.

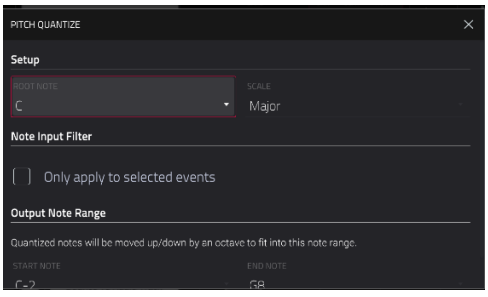
The **Trim to length** function immediately trims any clip events or regions from outside the clip length.

The following functions are available for all track types except Audio:

The **Half-Speed** function **immediately** doubles the lengths of all note events in the clip as well as the distance between them. In other words, all notes are spread further apart so the clip sounds like it is playing at half of the previous speed. This does not actually affect the pitches of notes or the tempo.

The **Double-Speed** function **immediately** halves the lengths of all note events in the clip as well as the distance between them. In other words, all notes are pressed closer together so that the clip sounds like it is playing at twice the previous speed. This does not actually affect the pitches of notes or the tempo.

The **Pitch Quantize** function forces the pitches of MIDI note events into a specific scale.



Use the **Root Note** field to select the desired root note of the scale.

Use the **Scale** field to select a type of scale.

To determine which note events will be quantized, tap the **Only apply to selected events** checkbox.

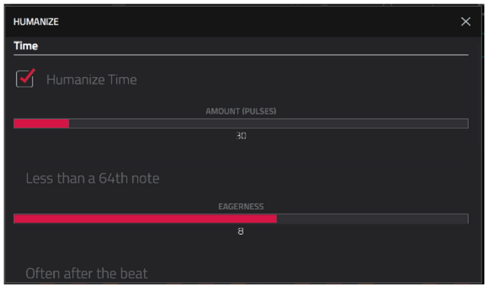
When **on**, only the currently selected note events will be quantized.

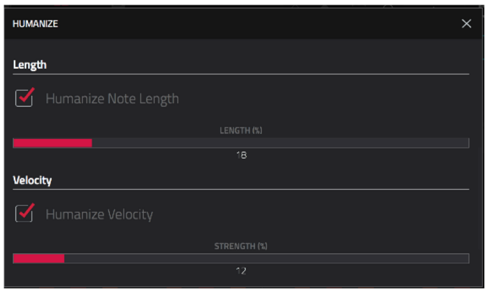
When **off**, **all** pitches in the current track will be quantized.

Use the **Start Note** and **End Note** fields to set lowest-possible and highest-possible pitches where the quantized note events will be placed (respectively). If a note event is originally outside of this range, it will be forced to the nearest pitch (within the scale) inside the range.

Tap **Do It** to confirm your choice, or tap the **X**, **Cancel**, or anywhere outside the window to cancel and return to the previous screen.

The **Humanize** function applies randomization to the timing, length, and/or velocity of note events.





Tap the **Humanize Time** checkbox to select whether or not humanization will be applied to the timing of note events.

Use the **Amount** (**Pulses**) slider to select the maximum number of pulses by which the timing of an event will be adjusted.

Use the **Eagerness** slider to set how dramatically the humanization effect is applied to the timing. Negative values correspond to playing “ahead of the beat” while positive values correspond to playing “behind the beat.”

Tap the **Humanize Note Length** checkbox to set whether or not humanization will be applied to the duration of note events.

Use the **Length** (**%**) slider to set how dramatically the humanization effect is applied to note lengths.

Tap the **Humanize Velocity** checkbox to set whether or not humanization will be applied to the velocities of note events.

Use the **Strength** (**%**) slider to set how dramatically the humanization effect is applied to note velocities.

Tap the **Only Apply to Selected Events** checkbox to determine which notes will use these humanization values:

When **on**, just the currently selected notes will be humanized.

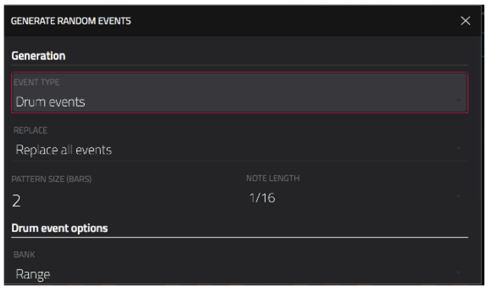
When **off**, all notes in the arrangement will be humanized.

Tap **Apply** to apply humanization and keep this window open.

Tap **Do It** to apply humanization and close the window.

Tap **Close**, the **X**, or anywhere outside the window to close the window without making any changes.

The **Random Events** function creates random melodic or drum patterns in the current clip.



Use the **Event Type** field to select **Drum Events** or **Melodic Events** to select the type of events you want to create.

Use the **Replace** field to select how the events will be created relative to the existing events on the track:

Replace All Events: Select this option to replace all events in the arrangement with the randomly generated ones.

Replace Events in Note Range: Select this option to replace all events in the designated note range in the clip with the randomly generated ones. Use the **Bank** or **Start Pad** and **End Pad** menus to set the note range for drum events or the **Start Note** and **End Note** menus to set the note range for melodic events.

Add to Existing Events: Select this option to add the randomly generated events to the clip without replacing or overwriting the existing ones.

Use the **Pattern Size** (**Bars**) field to set how many bars the events will use. The highest possible value is the number of bars in the current clip.

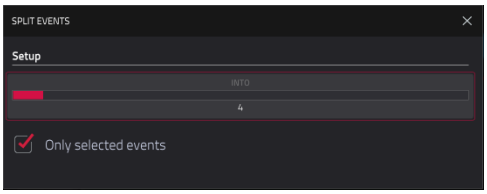
Use the **Note Length** field to select the duration of the events. (This feature is nonfunctional if **Legato** is enabled while generating melodic events.)

Tap **Apply** to generate the events and keep this window open.

Tap **Do It** to generate the events and close the window.

Tap **Close**, the **X**, or anywhere outside the window to close the window without generating any events.

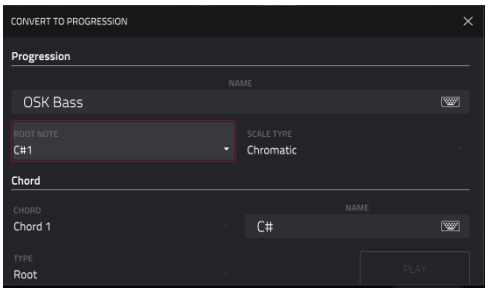
The **Split Events** process divides note events into an equal number of parts.



Use the **Into** slider to select the number of parts the event(s) will be split into.

Tap the **Only selected events** checkbox to apply the process only to currently selected events. When unchecked, all events will be split.

The **Convert to Progression** function creates a custom Progression from a melodic MIDI track that you can use to perform with Progressions Note mode.



Use the **Progression** fields to set the parameters of the new Progression:

Use the **Name** field to set the progression name.

Use the **Root Note** field to set the root note.

Use the **Scale Type** field to set the scale type.

Use the **Chord** fields to set the parameters for the chords in the Progression:

Use the **Chord** field to select a chord from the progression to edit.

Use the **Name** field to rename the selected chord.

Use the **Type** field to set the type of chord: **Root**, **Normal** or **Below Root**.

Tap the **Play** button to play the selected chord.

Tap **Do It** to convert the progression and close the window.

Tap **Close**, the **X**, or anywhere outside the window to close the window and return to the previous screen.

The following functions are available for **Drum**, **Keygroup**, **Plugin,** and **Audio** tracks:

The **Bounce to Sample** function renders the current clip as an audio sample and places it in the project's sample pool. By default, it will be named **Bounce** and appended with the track name.

Use the **Audio Tail** field to set the amount, in **seconds**, of extra time added to the end of the resulting audio files.

The **Bounce to Audio Track** function renders the current clip and adds it as a new audio track in the project. The Main Mode view will automatically switch to the **Audio** tab. By default, it will be named **Bounce** and appended with the track name. This function does not work for MIDI tracks or CV tracks.

Use the **Audio Tail** field to set the amount, in **seconds**, of extra time added to the end of the resulting audio files.

The following functions are available for **Audio** tracks only:

The **Flatten** and **Flatten Elastique** functions flatten the audio clip, rendering all the edits and regions within the arrangement to a single new audio file. The Elastique Pro algorithm can be used for time-stretching or pitch-shifting, providing higher-quality results with less artifacts than Force's standard algorithm.

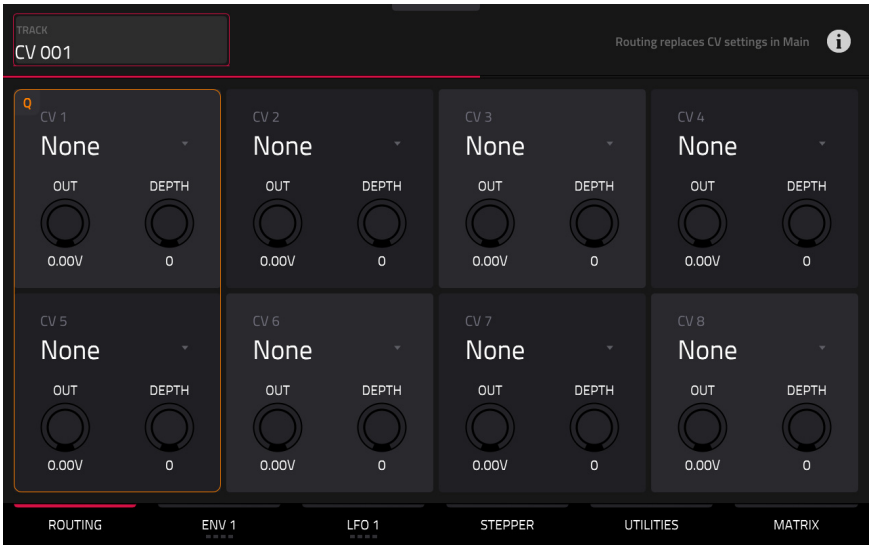
Advanced CV Track Edit

The MPC Pro Pack includes an advanced CV track editing playground, with a comprehensive set of modulators and utilities to greatly enhance control over CV-enabled devices.

Routing

In the Routing tab, you can set the routing options for the CV outputs.

Note: Changes made on this screen replace CV settings in ***Main Mode***. You can dismiss this message at the top of the screen by tapping the **i icon**.



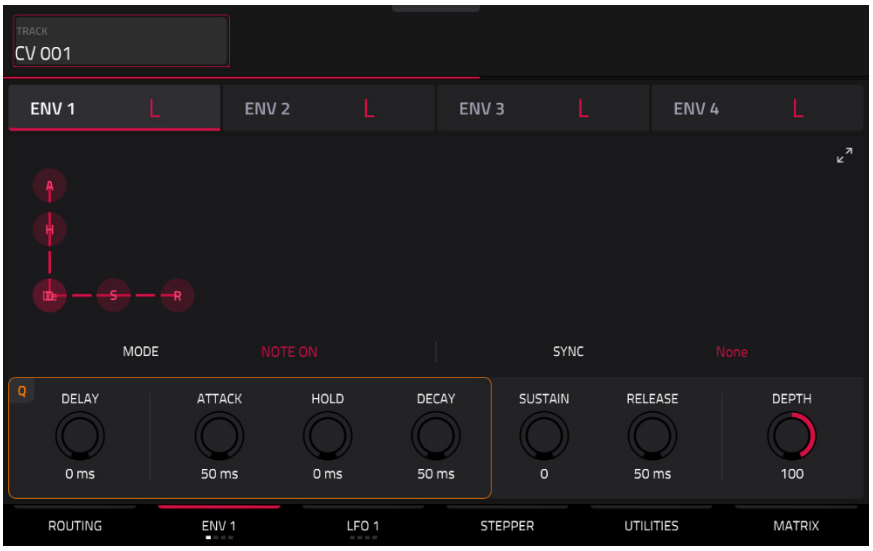
Use the **CV** field to select a routing destination for each CV Out.

Use the **Out** knobs to set the output voltage.

Use the **Depth** knob to apply additional modulation depth to the output.

Env 1–4

Tap **Envelopes** to cycle through its four tabs for the available envelopes which can be used to create a variable control signal to modulate the filter, amplitude, or pitch settings of a sound over a given period of time. You can also tap on the **Env 1–4** headers to switch between pages.



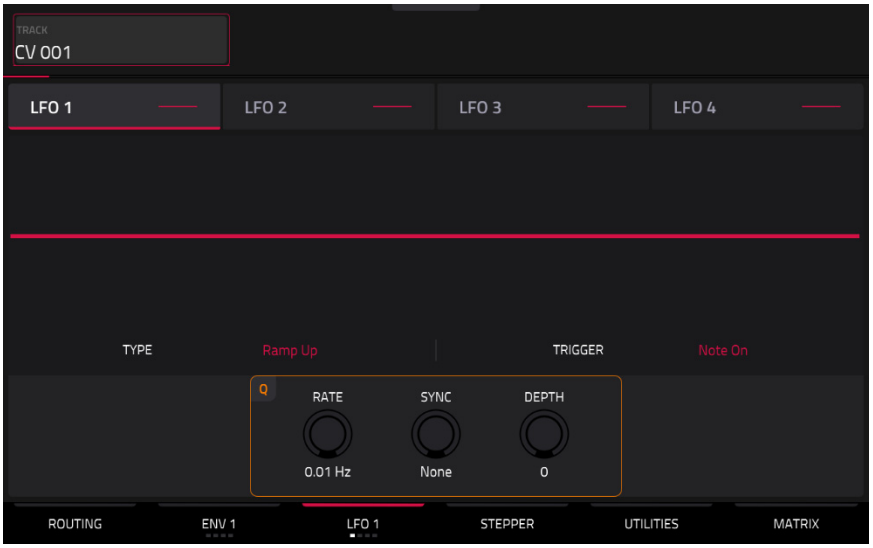
Use the **Mode** field to select how the envelope is triggered. Select **Note On** to restart the envelope with each Note On message. Select **Loop** to continuously cycle the envelope. Select **One Shot** to play through the envelope once.

Use the **Sync** field to synchronize the envelope to the MPC sequence for precise timing control.

Use the **Delay**, **Attack**, **Hold**, **Decay**, **Sustain**, and **Release** fields or click and drag the “handles” of each envelope to shape the envelope or time-variant modulation output. See the ***Anatomy of an Envelope*** section to learn about the envelope parameters.

Use the **Depth** knob to set the overall amount and direction in which the envelope is applied.

LFO 1–4



Tap **LFO** to cycle through its four tabs for the available LFOs, which can be used to generate a periodic waveform with an adjustable frequency and shape for modulation purposes. You can also tap on the **LFO 1–4** headers to switch between pages.

Use the **Type** field to select the LFO waveform type: **Ramp Up**, **Ramp Down**, **Triangle**, **Sine**, **Square**, **Random 1**, **Random 2**.

Use the **Trigger** field to determine how the LFO phase resets. Select **Free Running** for the LFO to run continuously without resetting. Select **Play Start** to reset the LFO at the start of the sequence. Select **Note On** to reset the LFO each time a note is triggered in the CV track's grid.

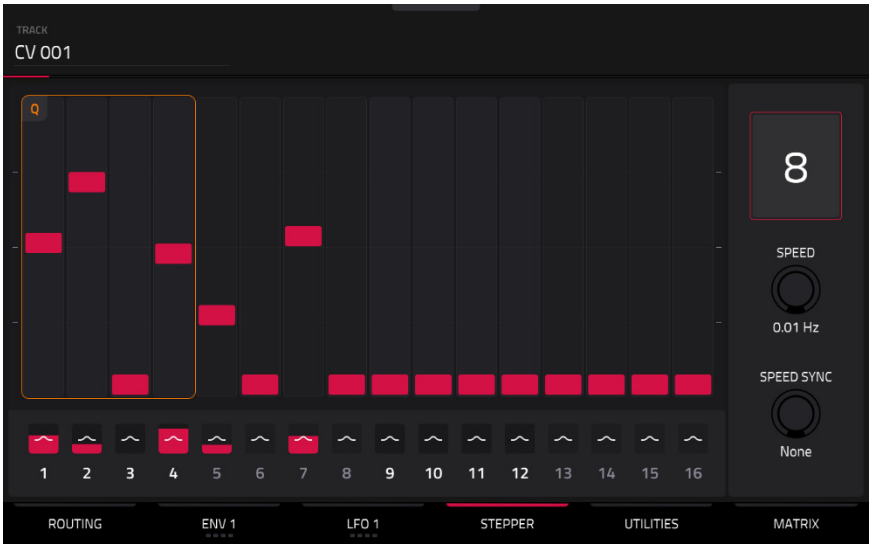
Use the **Rate** knob to determine the LFO frequency. At lower values, it might take some time for the LFO to complete a cycle, while higher values will come closer to audible range.

Use the **Sync** knob to synchronize the LFO's rate with the MPC sequence tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, Sync is off, and the frequency is determined by the **Rate** knob.

Use the **Depth** knob to set the overall amount of modulation applied by the LFO. At lower values, the modulation is more subtle, and at higher values it is more extreme.

Stepper

The **Stepper** section lets you create a step sequence for CV control.



Use the **Steps** field to set the length of the sequence.

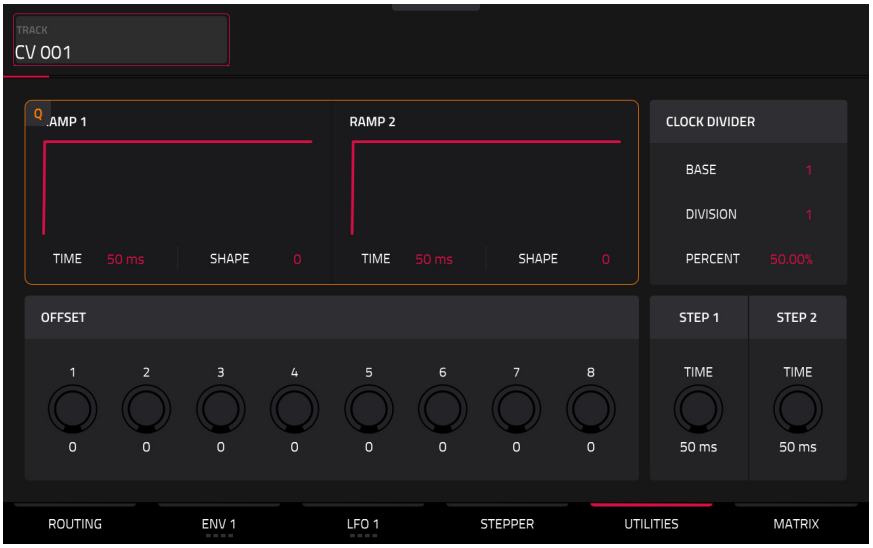
Use the **Speed** field to set how quickly the sequence is played.

Use the **Speed Sync** field to synchronize the speed with the MPC sequence tempo. You can select one of several time divisions (a **.** indicates a dotted note; a **T** indicates a triplet-based time division). When set to **None**, Sync is off, and the sequence timing is determined by the **Speed** field.

Tap and drag the **step handles** to set step values.

Tap and drag the **smoothing values**, above the step number, to apply additional smoothing to each step.

Utilities



The **Ramp** section lets you create rising or falling modulation signals.

Use the **Time** fields to adjust the length of the ramps.

Use the **Shape** fields to adjust the curve of the ramps. Positive values rise or fall more quickly, while negative values rise or fall more slowly.

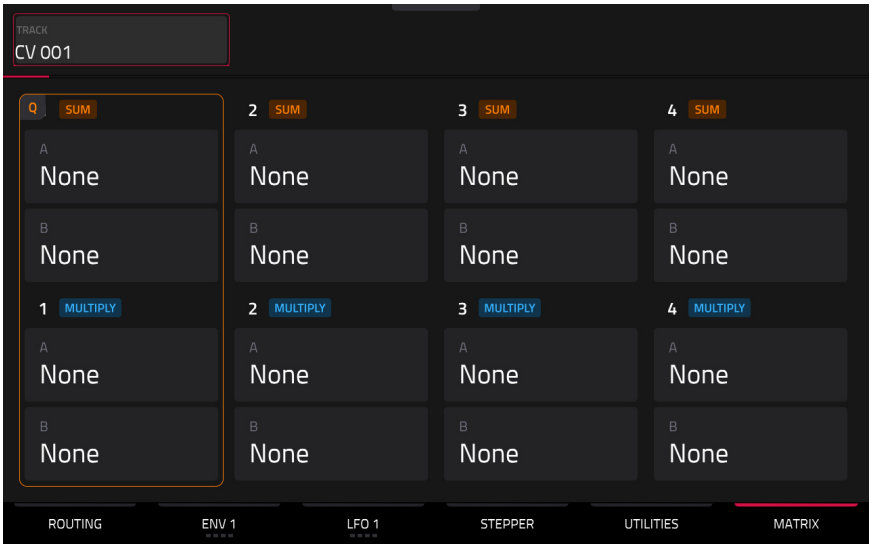
Use the **Offsets** knobs to adjust voltage levels to modulate external gear.

The **Clock Divider** section divides the incoming clock to allow for slower modulation rates.

Use **Step Time** knobs to set Step lengths for modulation purposes.

Matrix

The **Matrix** section allows you to modulate different sources and sum or multiply them for complex signals.



Q-Link Edit – Envelope Follower / LFO

In the **Envelope Follower / LFO** tab of ***Q-Link Edit*** mode, you can use an audio signal (such as a kick drum) as a control signal to create side-chain or modulation effects.

There are 16 available envelope followers, which can be selected using the **Control** field at the top left of the touchscreen.

Tap the **On** button next to the **Envelope Source** field to enable or disable the envelope.

Use the **Envelope Source** field to select the audio signal that will be used as the control signal for the envelope. This can be audio from a **Track**, or audio from a specific **Pad** (for Drum tracks) or **Keygroup** (for Keygroup tracks). You can also select the **Returns**, **Submixes**, and **Main Output** tracks, as well as dedicated **LFO** (low frequency oscillator) shapes.

After selecting the Envelope Source, you can use the additional fields on the left side of the touchscreen to configure the envelope parameters. The available parameters when a track, pad or keygroup is selected as the Envelope Source are as follows:

Use the selector below the Envelope Source field to set where the envelope is applied:

- **Input:** The envelope is applied at the audio input source. This option is only available for MIDI and CV tracks.
- **Pre-Inserts:** The envelope is applied before any insert effects.
- **Post-Fader:** The envelope is applied at the end of the channel strip after any insert effects and after the set volume level.
- **Playback:** The envelope is applied on playback of the selected track. This option is only available for MIDI and CV tracks.

Use the knobs below the envelope selector to adjust the parameters of the envelope. Tap the arrows to move between the pages of parameters when applicable.

- **Gain (%)** adjust the amount of gain applied to the envelope.
- **Delay (ms)** adjusts the amount of delay in milliseconds after which the envelope is triggered.
- **Gate (%)** adjusts the amount of gate applied to the envelope
- **Hyst (%)** adjusts the level at which the gate closes after opening.
- **Attack** adjusts the amount of attack for the envelope gate. This can also be adjusted by tapping and dragging the **A** handle in the envelope display.
- **Decay** adjusts the amount of decay for the envelope gate. This can also be adjusted by tapping and dragging the **D** handle in the envelope display.

When **LFO** is selected as the Envelope Source, the available parameters are as follows:

Use the selector to configure how the LFO is applied to the envelope. Select **Free-Running** for the LFO to continue even when not triggered, or select **Reset On Play** for the LFO to revert to its starting configuration when triggered.

Use the knobs below the selector to adjust the parameters of the LFO:

- **Freq (Hz)** adjusts the frequency, in Hertz, of the LFO.
- **Phase (º)** adjust the starting phase of the LFO.
- **Level (%)** adjusts the amount of LFO applied.

When the LFO envelope is engaged, you will see a representation of the LFO signal.

Once you have configured the envelope follower source, use the right side of the screen to select the parameter(s) that it will modulate using the same directions as described in ***Q-Link Edit > Editing Macro Assignments***.

Super Warp Algorithm

MPC Pro Pack includes a new **Super** Warp algorithm, offering high-quality FFT-based time stretching and pitch shifting.

To use the **Super** algorithm, open the **Preferences** menu and navigate to the **Audio/Export** tab, then set the **Default Warp Algorithm** setting to **Super**. Your choice of algorithm will be saved and recalled with the project, track, or program files.

The Warp algorithm can also be adjusted individually in the **Samples** tab of ***Track Edit Mode*** for Drum Tracks, or in ***Grid View*** for Audio Tracks.

Pro Pack Plugins

The MPC Pro Pack includes three new Insert effects:

- ***AIR Visual EQ4*** is a highly versatile EQ plugin providing four bands of equalization with a wide range of EQ types. The spectrum analyzer also provides clear visual feedback of the audio you are processing.
- ***AIR Reverb Pro*** delivers realistic, dynamic reverbs suitable for a variety of sound design tasks, from subtle room reverbs to rich, expansive modulated tails.

  Note: When used with standalone MPC, AIR Reverb Pro is limited to four instances.
- ***AIR Utility*** provides all your basic gain, mono, and stereo utility needs in a single plugin.

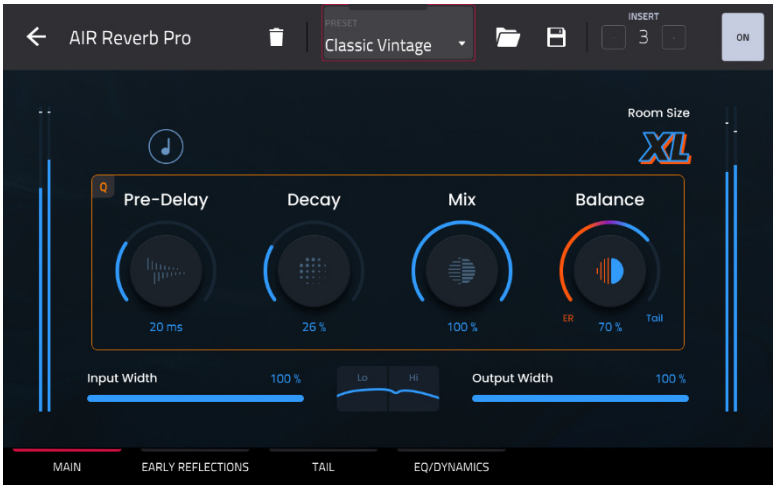
The MPC Pro Pack also includes the ***AIR Fabric Select*** instrument plugin. Fabric Select gives you access to all of the bread and butter sounds you need. Fabric Select has been built from Fabric XL using a smaller selection of its incredible sounding sample keymaps.

AIR Visual EQ4

Parameter	Description	Value Range
Band	Tap the power button next to each band to turn it on or off.	Off, On
Freq	Center frequency of the EQ band.	20.0 Hz – 20.00 kHz
Gain	When **Type** is set to **LowShelf**, **Peak**, or **HighShelf**, this adjusts the output level of the lEQ band.	-30.0 – 0.0 – +30.0 dB
Q	Width of the EQ band.	0.10–18.00
Type	Shape of the selected EQ band.	LowShelf, LowPass, HighPass, BandPass, Notch, Peak, HighShelf
Gain	Output level of the post-EQ audio.	-inf – 0.0 – +12.0 dB

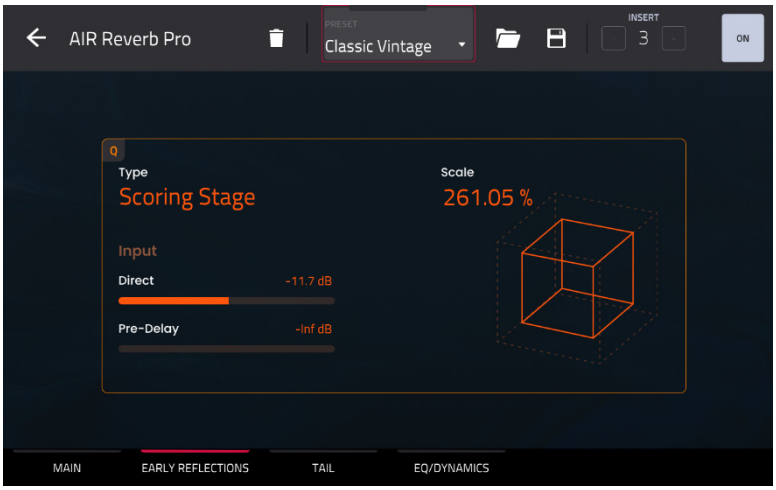
AIR Reverb Pro

Main



Parameter	Description	Value Range
Room Size	Size of the simulated room which helps determine the reverberation length.	XXXS, XXS, XS, S, M, L, XL, XXL, XXXL
Pre-Delay	Length of time between dry signal and reverberated signal. Tap the **music note icon** to enable or disable **Sync**. When **Sync** is **Off**: When **Sync** is **On**:	 0–250 ms 0, 1/32, 1/16T, 1/32D, 1/16, 1/8T, 1/16D, 1/8, 1/4T, 1/8D, 1/4,
Decay	Rate at which the reverberation decays after the original direct signal stops.	0–100%
Mix	Wet/dry amount of the reverb effect.	0–100%
Balance	Mix between the Early Reflections signal and Tail signal.	0–100%
Input Width	Adjusts the spread of the incoming audio signal in the stereo field. A setting of 0% means the incoming audio will be processed in mono. A setting of 100% means the incoming audio will be processed as a full stereo image.	0–100%
Output Width	Adjusts the spread of the outgoing processed audio signal in the stereo field. A setting of 0% means the audio will be ouput in mono. A setting of 100% produces an open, panned stereo image.	0–100%

Early Reflections

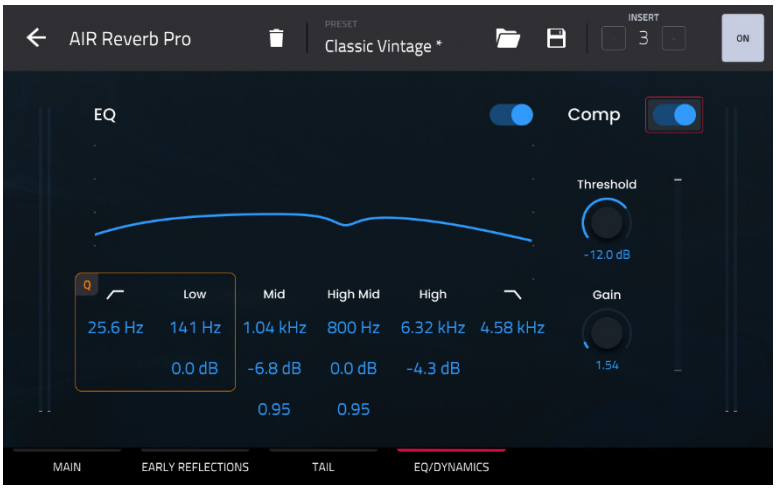


Parameter	Description	Value Range
Type	Simulated physical environment used for modeling the early reflections. • **Off:** No early reflections. • **Booth:** Simulates a vocal recording booth. • **Club:** Simulates a small, clear, natural-sounding club ambience. • **Room:** Simulates the center of a small room without many reflections. • **Small Chamber:** Simulates a bright, small-sized room. • **Medium Chamber:** Simulates a bright, medium-sized room. • **Large Chamber:** Simulates a bright, large-sized room. • **Small Studio:** Simulates a small, live, empty room. • **Large Studio:** Simulates a large, live, empty room. • **Scoring Stage:** Simulates a scoring stage in a medium-sized hall. • **Philharmonic:** Simulates the space and ambience of a large, symphonic, concert hall. • **Concert Hall:** Simulates the space and ambience of a large concert hall. • **Church:** Simulates a medium-sized space with natural, clear-sounding reflections. • **Opera House:** Simulates the space and ambience of an opera house. • **Vintage 1:** Simulates a vintage digital reverb effect. • **Vintage 2:** Simulates a vintage digital reverb effect.	See Description
Direct	Incoming audio level of the unprocessed signal into the Early Reflection.	-inf – 0.0 dB
Pre-Delay	Incoming audio level of the Pre-Delay processed signal into the Early Reflection.	-inf – 0.0 dB
Scale	Adjusts the size of the early reflection reverb. You can also click and drag the cube to adjust the size.	-50.0 – 400.00%

Tail

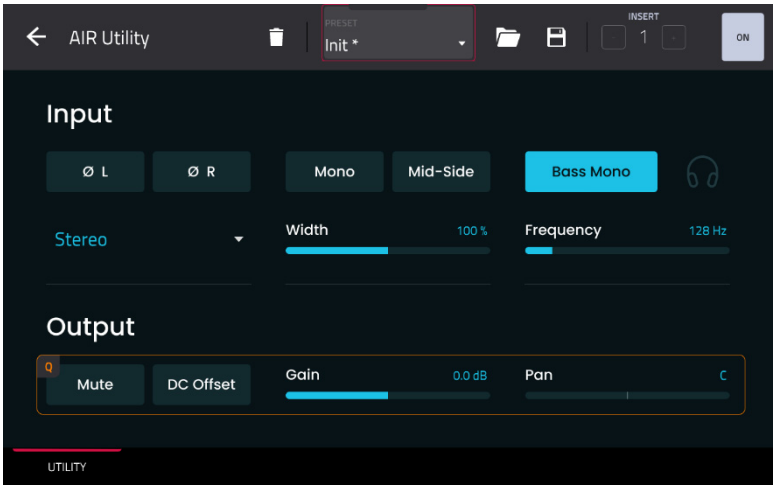
Parameter		Description	Value Range
Tail	Distance	Adjusts the distance that sound travels for reflections during the tail. The higher the distance, the more you can hear distinct reflections in the tail.	0–100%
	Density	Adjusts the rate at which the sound density of the reverb tail increases over time. Higher Density settings create a smoother reverberated sound. Lower settings result in more fluttery echo.	0–100%
Input	Direct	Incoming audio level of the unprocessed signal into the Tail.	-inf – 0.0 dB
	Pre-Delay	Incoming audio level of the Pre-Delay processed signal into the Tail.	-inf – 0.0 dB
	Early Reflections	Incoming audio level of the Early Reflections processed signal into the Tail.	-inf – 0.0 dB
Mod	On/Off	Tap the switch in the upper-right corner of this section to enable modulation.	Off, On
	Mod – Depth	Amount of modulation applied to the Tail processed signal	0–100%
	Mod – Rate	Speed of modulation applied to the Tail processed signal.	0–100%
Damping	Low	Center frequency at which low-frequency damping is applied to the Tail signal.	10–2000 Hz
	Early	Center frequency at which high-frequency damping is applied to the early Tail reverberations.	500–30000 Hz
	Late	Center frequency at which high-frequency damping is applied to the late Tail reverberations.	500–30000 Hz

EQ/Dynamic



Parameter		Description	Value Range
EQ	On/Off	Tap the switch next to the EQ heading to turn it on or off.	Off, On
	Low Cut	Center frequency of the low cut filter.	10.0 Hz – 1.00 kHz
	Low Freq	Center frequency of the low EQ band.	20.0 Hz – 1.00 kHz
	Low Gain	Level of the low EQ band.	-15.0 – 0.0 – +15.0 dB
	Mid Freq	Center frequency of the mid EQ band.	40.0 Hz – 16.0 kHz
	Mid Gain	Level of the mid EQ band.	-15.0 – 0.0 – +15.0 dB
	Mid Q	Width of the mid EQ band.	0.50–10.00
	High Mid Freq	Center frequency of the mid EQ band.	40.0 Hz – 16.0 kHz
	High Mid Gain	Level of the mid EQ band.	-15.0 – 0.0 – +15.0 dB
	High Mid Q	Width of the mid EQ band.	0.50–10.00
	High Freq	Center frequency of the high EQ band.	2.00 – 20.0 kHz
	High Gain	Level of the high EQ band.	-15.0 – 0.0 – +15.0 dB
	High Cut	Center frequency of the high cut filter.	200 Hz – 20.0 kHz
Compressor		Tap the switch next to the Compressor heading to turn it on or off.	Off, On
	Threshold	Volume level at which compression will be applied.	-40.0 – 0.0 dB
	Gain	Adjusts the output level of the compressed signal.	0.00–30.00

AIR Utility



Parameter		Description	Value Range
Input	Left Phase	Tap to invert the phase of the left stereo channel.	Off, On
	Right Phase	Tap to invert the phase of the right stereo channel.	Off, On
	Mode	Tap the drop-down menu to adjust the Stereo processing mode. • **L:** Left channel only • **L+R (-3dB):** Summed left and right channels, with a -3 dB pad. • **L+R (-6dB):** Summed left and right channels, with a -6 dB pad. • **L-R (+3dB):** Inter-channel difference, with a -3 dB pad. • **L-R (+6dB):** Inter-channel difference, with a -6 dB pad. • **R:** Right channel only • **Stereo:** Standard stereo image • **Swapped:** Reverses the left and right stereo channels	See Description
	Mono	Converts a Stereo signal to Mono. This is only available when **Type** is set to **L-R (+3dB)**, **L-R (+6dB)**, **Stereo**, or **Swapped**.	Off, On
	Mid-Side	Enables Mid-Side encoding, where the Left + Right channel sum is centered in the stereo image, and the Left - Right channel difference is panned to each side. This is only available when **Type** is set to **Stereo** or **Swapped**.	Off, On
	Width	Adjusts the stereo width of the input signal. Higher values give wider stereo separation.	0–200%
	Bass Mono	Enables converting the low frequency audio signal to mono.	Off, On
	Bass Mono Frequency	Center frequency of the low-pass filter used for the Bass Mono function.	50 – 500 Hz
	Bass Mono Audition	Tap the headphones icon to isolate the low frequencies, useful when adjusting the Bass Mono Frequency.	Off, On

Parameter		Description	Value Range
Output	Mute	Mutes the outgoing audio.	Off, On
	DC Offset	Applies a high-pass filter to remove extreme low frequencies that may cause audio issues.	Off, On
	Gain	Adjust the output level of the processed signal.	-inf – 0.0 – 25.0 dB
	Pan	Adjust the stereo panning of the output signal.	L (100:0) – C (0:0) – R (0:100)

AIR Fabric Select

The all-new AIR Fabric Select is a streamlined edition of AIR Fabric, offering a curated selection of its most popular and versatile patches. AIR Fabric Select is perfect as an introduction of Fabric's sound palette, with fewer presets but the same high-quality sound engine you know from the full version.

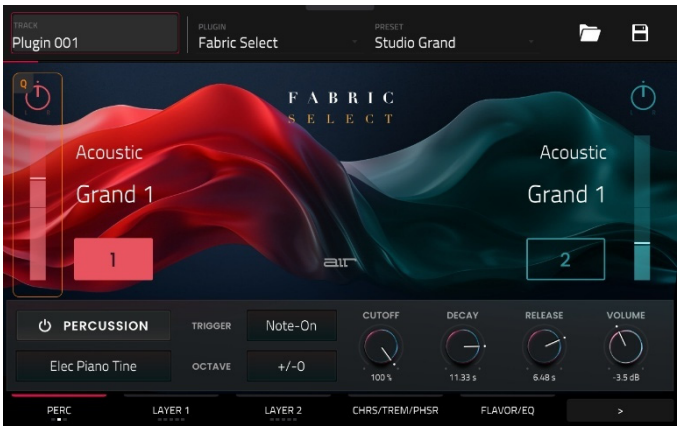
Main / Perc / Settings

Use this tab to select layer sounds and adjust main layer parameters, add a percussion layer, and edit global settings. Tap the tab to cycle between the three pages.

Main

Parameter		Description	Value Range
Layer 1/2	Pan	Stereo panning of the layer.	L64 – C – R64
	Volume	Level of the layer.	0–100%
	Category	Sound category of the layer.	Varies
	Preset	Preset sound within the selected category.	Varies
	Enable/Disable	Enable or disable the layer.	Off, On
Cutoff		Filter cutoff frequency of the layer.	-100 – 0 – +100%
Reso		Amount of resonance/emphasis of the filter cutoff point for the layer.	-100 – 0 – +100%
Attack		Amount of amplitude attack reduced from or added to the sound.	-100 – 0 – +100%
Release		Amount of amplitude release reduced from or added to the sound.	-100 – 0 – +100%
Formant		Decreases or increases resonant frequencies to adjust the timbre of the sound.	-100 – 0 – +100%
Sample Start		Starting point of the sample.	-100 – 0 – +100%
Delay		Enable or disable the delay effect.	Off, On
Delay Mix		Wet/dry amount of the delay effect.	0–100%
Reverb		Enable or disable the reverb effect.	Off, On
Reverb Mix		Wet/dry amount of the reverb effect.	0–100%

Perc



Parameter		Description	Value Range
Percussion		Enables or disables percussion sample.	Off, On
	Sample	Select the percussion sample used.	Varies
	Trigger	Selects when the percussion sample is triggered.	Note-On, Note-Off
	Octave	Adjust pitch of the percussion sample.	-4 – 0 – +4
	Cutoff	Cutoff frequency of the percussion sample.	0–100%
	Decay	Length of time for the percussion sample to decay.	0.0 ms – 32.0 s
	Release	Length of time for the percussion sample to become silent after being released.	0.0 ms – 32.0 s
	Volume	Level of the percussion sample.	-inf – 0.0 – +12.0 dB

Settings

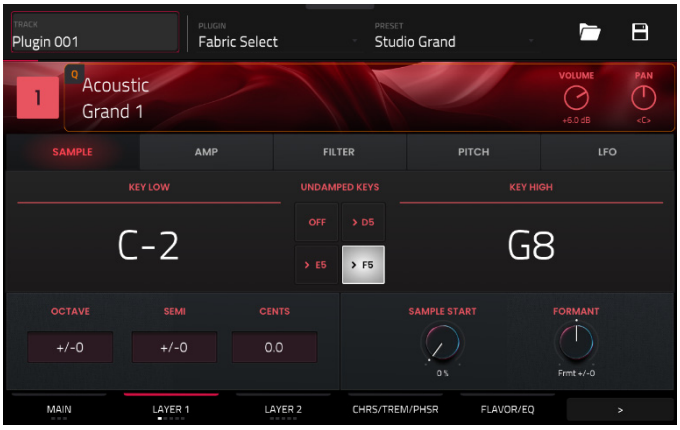
Parameter		Description	Value Range
Settings	Transpose	Transposition of the plugin, in semitones.	-36 – 0 – +36
	Tune	Fine tuning of the plugin, in cents.	-100 – 0 – +100
	Pitch Bend	Number of semitones up or down controlled by MIDI pitch bend messages.	0–24 (semitones)
	Poly	Number of allowable voices, and how voices are triggered.	Dynamic Poly, Legato, Retrigger, 2–6 Notes
	Glide Mode	Enables or disables pitch gliding for all triggered notes or legato notes.	Off, Legato, All
	Glide Time	Amount of time to slide from the pitch of one note to the next note played.	0.0 ms – 32.0 s
	Main Volume	Overall level of the plugin.	-Inf dB – 0.0 – +6.0 dB

Layer 1/2

Use these tabs to adjust specific layer properties, including sample properties; amplitude, filter, and pitch envelopes; and low frequency oscillator modulation.

Tap the tab to cycle through the available pages, or tap the headers below the layer controls.

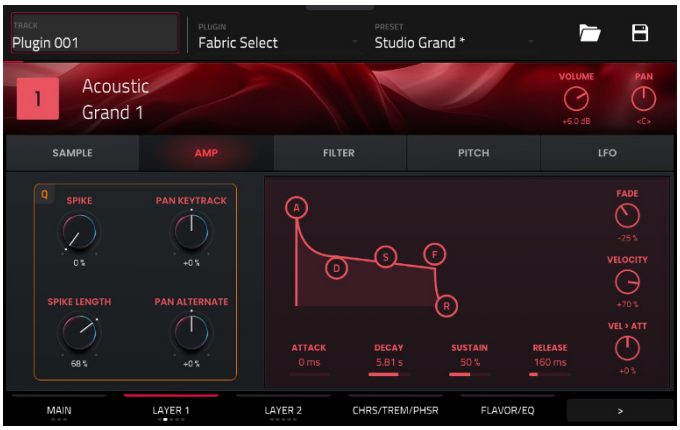
The available parameters for each layer are identical.



Sample

Parameter		Description	Value Range
Layer 1/2		Enable or disable the selected layer.	Off, On
	Category	Sound category of the layer.	Varies
	Preset	Preset sound within the selected category.	Varies
	Volume	Level of the layer.	0–100%
	Pan	Stereo panning of the layer.	L64 – C – R64
Sample	Key Low	Set the lowest key for the layer key range.	C-2 – G8
	Undamped Keys	Set the starting note above which all notes are undamped.	Off, >D5, >E5, >F5
	Key High	Set the highest key for the layer key range.	C-2 – G8
	Octave	Coarse tuning of the layer in octaves.	-4 – 0 – +4
	Semi	Transposition of the layer in semitones.	-12 – 0 – +12
	Cents	Fine tuning of the layer in cents.	-50.0 – 0.0 – +50.0
	Sample Start	Starting point of the selected sample.	0–100%
	Formant	Decreases or increases resonant frequencies to adjust the timbre of the sound.	-12 – 0 – +12

Amp

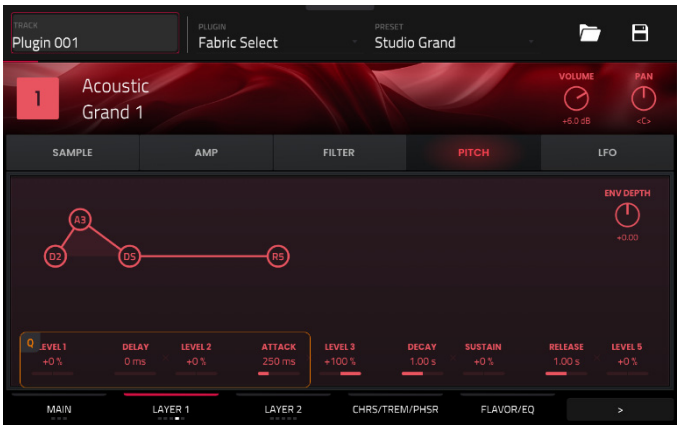


Parameter	Description	Value Range
Spike	Applies additional velocity to the amplitude attack.	0–100%
Spike Length	Length of time for the spike to decay.	0–100%
Pan Keytrack	Ties the stereo panning to the pitch being played. At negative values, the lower notes will be stereo right, and higher notes stereo left. At positive values, lower notes will be stereo left, and higher notes stereo right.	-100 – 0 – +100%
Pan Alternate	Alternate successive notes between stereo left and right.	-100 – 0 – +100%
Attack	Length of time for the sound to reach full level.	0 ms – 32 s
Decay	Length of time for the note to reach sustain level.	0 ms – 32 s
Sustain	Level of the sound while the note is held.	0–100%
Release	Length of time for the note to dissipate when released.	0 ms – 32 s
Fade	Level decrease or increase to the envelope sustain level.	-100 – 0 – +100%
Velocity	Amount of effect the note velocity has on the amplitude envelope.	-100 – 0 – +100%
Vel > Att	The amount of effect velocity has on the amplitude attack.	-100 – 0 – +100%

Filter

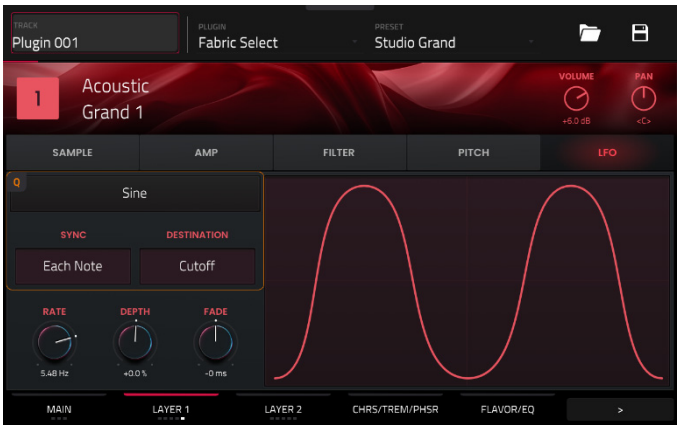
Parameter	Description	Value Range
Mode	Type of filter applied.	Off, Lowpass 24dB, Lowpass 12 dB, Band 18, Band 12, High 12, Peak EQ, Presence, Damper
Cutoff	Cutoff frequency of the filter.	0–100%
Reso	Resonance of the filter.	0–100%
Keytrack	Ties the envelope parameters to the pitch being played. At higher values, the envelope time is decreased as the pitch is increased.	0–100%
Velocity	The amount of effect velocity has on filter control.	-100% – 0 – +100%
Env Depth	Envelope depth of the filter. At negative values, decreases the cutoff value based on the decay value. At positive values, increases the cutoff value based on the decay value.	-100% – 0 – +100%
Attack	Length of time for the filter to reach full level.	0 ms – 32 s
Decay	Length of time for the filter to reach sustain level.	0 ms – 32 s
Sustain	Level of the filter while the note is held.	0–100%
Release	Length of time for the filter to dissipate when released.	0 ms – 32 s
Fade	Level decrease or increase to the envelope sustain level.	-100 – 0 – +100%
Velocity	Amount of effect the note velocity has on the filter envelope.	-100 – 0 – +100%
Vel > Att	The amount of effect velocity has on the filter attack.	-100 – 0 – +100%

Pitch



Parameter	Description	Value Range
Level 1	Pitch level (relative to the **Env Depth**) at the start of the note.	-100 – 0 – +100%
Delay	Length of time to reach Level 2.	0 ms – 32 s
Level 2	Pitch level (relative to the **Env Depth**) at the start of the note.	-100 – 0 – +100%
Attack	Length of time between **Levels 2** and **3**.	0 ms – 32 s
Level 3	Pitch level (relative to the **Env Depth**) at the start of the note.	-100 – 0 – +100%
Decay	Length of time for the note to reach sustain level after the Attack.	0 ms – 32 s
Sustain	Pitch level (relative to the **Env Depth**) as the note is held.	-100 – 0 – +100%
Release	Length of time for the note to dissipate when released.	0 ms – 32 s
Level 5	Pitch level (relative to the **Env Depth**) when the note is released.	-100 – 0 – +100%
Env Depth	Sets the range of pitch adjustment in semitones.	-12.00 – 0.00 – +12.00

LFO



Parameter	Description	Value Range
Mode	Waveshape of the low frequency oscillator.	Off, Constant, Sine, Triangle, Sawtooth, Square, S+H Random, S+H Alternate, Random Drift, Slow Drift
Sync	Disable or enable and select how the LFO is synced to the global tempo.	Off, First Note, Each Note, BPM & Note, BPM & Beat
Destination	Where the low frequency oscillator is applied.	Pitch, Cutoff, Reso, Amp, Pan,
Rate	Speed of the low frequency oscillator. When **Sync** is set to **Off**, **First Note** or **Each Note**: When **Sync** is set to **BPM & Note** or **BPM & Beat**:	 0.03 – 30.00 Hz 8/4 – 1/64
Depth	Amount of LFO modulation applied.	-100 – 0 – +100%
Fade	Level decrease or increase to the LFO level.	-100 – 0 – +100%

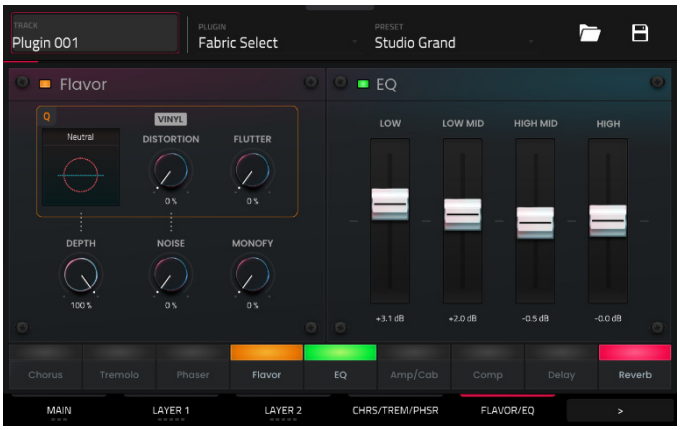
Chrs / Trem / Phsr

Use this tab to adjust the settings for the chorus, tremolo, and phaser effects. Each effect can be turned on and off by using the buttons on the bottom of the screen.

Parameter		Description	Value Range
Chorus		Use the button in the upper-left corner to enable or disable the chorus effect.	Off, On
	Rate	Modulation speed of the chorus effect.	0.05 – 20.00 Hz
	Mix	Wet/dry amount of the chorus effect.	0–100%
Tremolo		Use the button in the upper-left corner to enable or disable the tremolo effect.	Off, On
	Modwheel	Enable or disable tremolo control by the modwheel.	Off, On
	Rate	Modulation speed of the effect.	0.05 – 20.00 Hz
	Shape	Adjusts the modulation waveshape.	-100 – 0 – +100%
	Stereo	Degree of stereo spread of the effect.	0–360 deg.
	Depth	Amount of modulation applied.	0–100%
Phaser		Use the button in the upper-left corner to enable or disable the phaser effect.	Off, On
	Rate	Modulation speed of the effect.	0.05 – 20.00 Hz
	Depth	Amount of modulation applied.	0–100%
	Mix	Wet/dry amount of the chorus effect.	0–100%
	Feedback	Amount of phaser signal fed back into the phaser circuit.	0–100%
	Stereo	Degree of stereo spread of the effect.	0–360 deg.
	Center	Center frequency of the phaser filter.	0–100%

Flavor/EQ

Use this tab to adjust the settings for the flavor and EQ effects. Each effect can be turned on and off by using the buttons on the bottom of the screen.



Parameter		Description	Value Range
Flavor		Use the button in the upper-left corner to enable or disable the flavor effect.	Off, On
	Timbre	Selects an emulation type to color the sound.	Varies
	Timbre Depth	Amount of timbre emulation applied to the sound.	0–100%
	Vinyl Distortion	Amount of vinyl distortion noise applied to the signal.	0–100%
	Vinyl Noise	Amount of vinyl noise such as clicks and pops applied to the signal.	0–100%
	Flutter	Amount of speed fluctuation of the sound playback.	0–100%
	Monofy	Reduces the stereo spread of the sound to mono.	0–100%
EQ		Use the button in the upper-left corner to enable or disable the EQ effect.	Off, On
	Low	Amount of attenuation or boost applied to the low frequency band.	-12 – 0 – +12 dB
	Low Mid	Amount of attenuation or boost applied to the low-mid frequency band.	-20 – 0 – +20 dB
	High Mid	Amount of attenuation or boost applied to the high-mid frequency band.	-20 – 0 – +20 dB
	High	Amount of attenuation or boost applied to the high frequency band.	-12 – 0 – +12 dB

Amp/Cab/Comp

Use this tab to adjust the settings for the amp/cab and compressor effects. Each effect can be turned on and off by using the buttons on the bottom of the screen.

Parameter		Description	Value Range
Amp | Cab		Use the button in the upper-left corner to enable or disable the amp/cab effect.	Off, On
	Cabinet	Type of amplifier simulated.	D.I., Brit, 1x8”, 1x12”, 2x10”, 2x12”, 4x10”, 4x12”, 1x15” Bass, 4x10” Bass, Radio
	Mono/Stereo	Determines whether the simulation is mono or stereo.	Mono, Stereo
	Drive	Amount of overdrive applied to the amp signal.	0–100%
	Soft-Clip	Amount of softening applied to the clipped signal to decrease high-frequency harmonics and add warmth.	0–100%
	Volume	Output level of the amp signal.	-12.0 – 0.0 – 12.0 dB
	Bass	Amount of bass-range tone reduction or boost.	-100 – 0 – +100%
	Mid	Amount of mid-range tone reduction or boost.	-100 – 0 – +100%
	High	Amount of high-range tone reduction or boost.	-100 – 0 – +100%
Compressor		Use the button in the upper-left corner to enable or disable the compression effect.	Off, On
	Threshold	Signal level after which the compression will be applied.	-30.0 – 0.0 – +10.0 dB
	Ratio	Amount of compression applied.	1.0:1 – 20.0:1
	Attack	Length of time to apply the compression.	0–100%
	Makeup	Amount of additional output gain for the compressed signal.	-20.0 – 0.0 – +20.0 dB

Delay/Reverb

Use this tab to adjust the settings for the delay and reverb effects. Each effect can be turned on and off by using the buttons on the bottom of the screen.

Parameter		Description	Value Range
Delay		Use the button in the upper-left corner to enable or disable delay.	Off, On
	Time	Amount of time between the dry signal and the delayed signal.	1/16 – 16/4
	L/R Ratio	Reduces the delay **Time** in either the **Left** or **Right** stereo field. This is useful for creating offset, panned delays.	50:100 – 100:100 – 100:50
	Feedback	Amount of signal fed back into the delay line.	0–100%
	Mix	Wet/dry amount of the delay effect.	0–100%
	Reso LP Freq	Low pass frequency for feedback resonance.	100 – 16000 Hz
	Reso Bell Freq	Center frequency for feedback resonance.	100 – 16000 Hz
	Reso Bell Gain	Amount of gain applied to the resonant frequency.	0–100%
Reverb		Use the button in the upper-left corner to enable or disable the reverb effect.	Off, On
	Pre-Delay	Length of time between dry signal and reverberated signal.	0 – 250 ms
	Time	Length of reverb tail.	0.3 – 60.00 s
	Size	Size of the reverberation environment.	0–100%
	Mix	Wet/dry amount of the reverb effect.	0–100%
	Shape	Shape of the reverberation environment, which will alter the density of reverb reflections. At lower settings, the sound of individual reflections is more present. At higher settings, reflections are more uniform.	0–100%
	Damp	Amount of frequency dampening applied to the reverberated signal.	100–0%
	HPF Freq	Center frequency for reverb signal high-pass filter.	0 – 2000 Hz
	Brightness	Amount of high frequency decay.	-100–0%

MIDI Settings

Use this tab to adjust the MIDI settings for the plugin.

Parameter		Description	Value Range
Modwheel	Destination	Send Mod Wheel data to one of the following control destinations.	Pitch, Cutoff, Reso, Amp, Pan
	Depth	Amount of modulation applied.	
		When **Destination** is set to **Pitch**:	-12.0 – +12.0
		When **Destination** is set to **Cutoff**, **Reso**, **Amp** or **Pan:**	-100 – 0 – 100%
	LFO	Ties the modulation to the Control LFO.	Off, On
Aftertouch	Destination	Send Aftertouch data to one of the following control destinations.	Pitch, Cutoff, Reso, Amp, Pan
	Depth	Amount of modulation applied.	0–100%
		When **Destination** is set to **Pitch**:	-12.0 – +12.0
		When **Destination** is set to **Cutoff**, **Reso**, **Amp** or **Pan:**	-100 – 0 – 100%
	LFO	Ties the modulation to the Control LFO.	Off, On
Expression	Destination	Send Expression data to one of the following control destinations.	Pitch, Cutoff, Reso, Amp, Pan
	Depth	Amount of modulation applied.	0–100%
		When **Destination** is set to **Pitch**:	-12.0 – +12.0
		When **Destination** is set to **Cutoff**, **Reso**, **Amp** or **Pan:**	-100 – 0 – 100%
	LFO	Ties the modulation to the Control LFO.	Off, On
Footswitch 2	Destination	Send Footswitch 2 data to one of the following control destinations.	Pitch, Cutoff, Reso, Amp, Pan
	Depth	Amount of modulation applied.	0–100%
		When **Destination** is set to **Pitch**:	-12.0 – +12.0
		When **Destination** is set to **Cutoff**, **Reso**, **Amp** or **Pan:**	-100 – 0 – 100%
	LFO	Ties the modulation to the Control LFO.	Off, On

MIDI Settings *(continued)*

Parameter		Description	Value Range
Control LFO	Shape	Waveshape of the Control LFO.	Sine, Triangle, Sawtooth, Square, S&H Random, S&H Alternate, Random Drift, Slow Drift
	Rate	Speed of the low frequency oscillator.	
		When **Sync** is **Off**:	0.03 – 30.00 Hz
		When **Sync** is **On**:	8/4 – 1/64
	Sync	Enables or disables Control LFO sync, and sets how the Control LFO is synced when enabled.	Off, First Note, Each Note, BPM & Note, BPM & Beat

Import Ableton Live Projects

With the MPC Pro Pack, you can now import Ableton Live projects into your MPC.

To import an Ableton Live project:

1. On your MPC hardware, press **Load** or open the ***Browser*** from the ***Menu***.
2. Navigate to the drive that contains your Ableton Live projects.
3. Select an Ableton Live Project (**.als** file) and then tap **Load**.

Important: For an Ableton Live project to be successfully imported with all assets, you must use the **Collect All and Save** option in Ableton Live to collect all of your project resources together.

MPC will attempt to import and convert the following:

- Launch Matrix Tracks/Clips to Tracks/Clips
- Arrangement View Sequence to Arrange tracks.
- ALS Colors to MPC Colors for pads.
- Audio Clips to Audio Clips (with Looping points, names, warp, volume, pan, and pitch adjustment).
- MIDI Notes to MIDI Notes at 960 PPQ units, with looping points and names.
- Basic conversion of ALS Drum Rack to XPJ Drum Kit. Only one “Selection” is handled. A maximum of four velocity variations per instrument.
- Basic conversion of ALS Impulse Instrument to XPJ Drum Kit.
- Basic conversion of ALS Sampler to XPJ Keygroup (128 keygroup limit). Only one “Selection” is handled.
- Basic conversion of ALS Simpler to XPJ Keygroup.
- Plugin instrument tracks are converted to MPC MIDI tracks.

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