



McIntosh Laboratory, Inc. 2 Chambers Street, Binghamton, New York 13903-2699 Phone: 607-723-3512 www.mcintoshlabs.com

MX124

A/V PROCESSOR

OWNER'S MANUAL



FCC Information (For US Customers)

1. IMPORTANT NOTICE:

DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by McIntosh may void your authority granted by the FCC to use the product.

2. CAUTION:

- To comply with FCC RF exposure compliance requirement, separation distance of at least 20cm must be maintained between this product and all persons.
- This product and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

3. COMPLIANCE INFORMATION:

- Product Name: MX124 A/V Processor
- Model Number: MX124
- This product contains FCC ID: RAXAIOS65V

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, NY 13903
Tel. (607) 723-3512

IC Information (Canadian Customers)

1. PRODUCT:

This product contains IC: 4711A-AIOS65V
This product complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

(1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation. This Class B digital Apparatus complies with Canadian ICES-003.

2. CAUTION:

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

Informations sur IC (pour les clients

Canadiens)

1. APPAREIL:

Cet Appareil contient IC: 4711A-AIOS65V
Cet Appareil est conforme à la norme CNR-210 du Canada. L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif. Cet Appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

2. ATTENTION:

Afin de réduire le risque d'interférence aux autres utilisateurs, il faut choisir le type d'antenne et son gain de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour l'obtention d'une communication satisfaisante.

Canadian Customers: CAN ICES-003 (B)/ NMB-003 (B)

RF Exposure Information

This equipment complies with FCC and ISSED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In order to avoid the possibility of exceeding the FCC and ISSED RSS-102 radio frequency exposure limits, this equipment should be installed and operated with minimum distance 20 cm (7.9 inches) between the antenna and your body during normal operation.

Users must follow the specific operating instructions for satisfying RF exposure compliance.

Cet équipement est conforme aux limites d'exposition aux rayonnements FCC et ISSED CNR-102 établies pour un environnement non contrôlé. Cet émetteur ne doit pas être installé ou utilisé en conjonction avec une autre antenne ou un autre émetteur. Afin d'éviter la possibilité de dépasser les limites d'exposition aux radio-fréquences FCC et ISSED, cet équipement doit être installé et utilisé avec une distance minimale de 20 cm (7.9 pouces) entre l'antenne et votre corps pendant le fonctionnement normal. Les utilisateurs doivent suivre les instructions spécifiques d'utilisation pour respecter la conformité à l'exposition aux RF.

RED (EN) Information

1. DECLARATION OF CONFORMITY

Our products follow the provisions of EC/EU directives:

LVD: 2014/35/EU

EMC: 2014/30/EU

RED: RED (EU) 2022/30 of 20 Oct 2021
supplementing Directive 2014/53/EU

ERP: EC regulation 1275/2008 and
its frame work directive 2009/125/EU

RoHS: 2015/863/EU

2. DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets RED directive requirements. Modification of the product could result in hazardous Radio and EMC radiation.

3. CAUTION:

Separation distance of at least 20 cm must be maintained between this product and all persons. This product and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

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Thank You from all of us at McIntosh

You have invested in a precision instrument that will provide you with many years of enjoyment. Please take a few moments to familiarize yourself with the features and instructions to get the maximum performance from your equipment. If you need further technical assistance, please contact your dealer who may be more familiar with your particular setup including other brands. You can also contact McIntosh with additional questions or in the unlikely event of needing service.

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Email support@mcintoshlabs.com
Website www.mcintoshlabs.com

Please Take A Moment

For future reference, you can write down your serial number and purchase information here. We can identify your purchase from this information if the occasion should arise:

Serial Number: _____

Purchase Date: _____

Dealer Name: _____

Introduction

The McIntosh MX124 is one of the best A/V Processors ever created. Connections for both digital and analog sources are provided, offering countless ways to listen to music and movies. The MX124 outputs have the ability to drive multiple components, and reproduce sonically transparent and absolutely accurate sound. The MX124 comes with both Dirac and Audyssey licenses, allowing the audio optimization software to be used out of the box without further purchases.

Safety First

Please read the additional document

INSTRUCTIONS: Safety - Lithium Batteries - Disposal

General Information

1. Do not apply AC power to the MX124, or other component(s) until they are connected to the MX124 to prevent operational malfunctioning.
2. Do not use cleaners containing aggressive chemicals, as they will etch away at the anodized finish.
3. Balanced and unbalanced inputs and outputs can be mixed. For example, signal sources may be connected to unbalanced inputs, and send signals from the unbalanced outputs. Balanced and unbalanced outputs can be used simultaneously when connected to different power amplifiers.
4. The MX124 internal Digital-to-Analog Converter Circuitry is designed to decode PCM, DSD Dolby, and DTS Digital signals. The Coaxial and Optical digital audio inputs are for PCM Digital signals, Dolby signals, and DTS signals. The MX124 also decodes USB and HDMI ARC/eARC digital signals. Other digital audio signal format types will cause the audio outputs of the MX124 to be muted.
5. The McIntosh MX124 is factory configured for immediate use.
6. The rear panel IR Input is configured for non-McIntosh IR sensors such as a Xantech Model DL85K Kit. When in use, consider turning off the front panel sensor to avoid interference.
7. The MX124 has been tested and certified for indoor use only.
8. For additional information on the MX124 and other McIntosh products please visit the McIntosh website at www.mcintoshlabs.com.

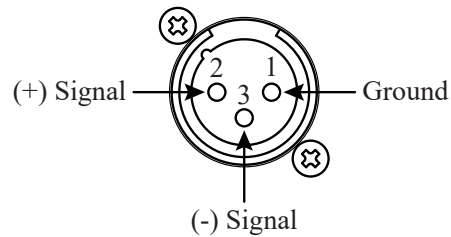
Trademarks and Licenses

The McIntosh MX124 incorporates copyright protected technology that is protected by U.S. patents and other intellectual property rights. The MX124 uses the following technologies:

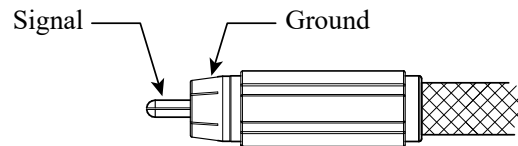
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	Manufactured under license from Dirac Live. Dirac Live, Dirac® and Dirac Live® are trademarks owned by Dirac Research AB.
 	Manufactured under license from Audyssey Laboratories™. U.S. and foreign patents pending. Audyssey MultEQ® XT32, Audyssey Dynamic EQ®, Audyssey Dynamic Volume® and Audyssey LFC™ are registered trademarks of Audyssey Laboratories.
	The Wi-Fi CERTIFIED logo is a registered trademark of the Wi-Fi Alliance. Wi-Fi Certification provides assurance that the device has passed the interoperability test conducted by the Wi-Fi Alliance, a group that certifies interoperability among wireless LAN devices.

Trademark Logo	License Information
	The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
	HDR10+™ logo is a trademark of HDR10+ Technologies, LLC.
	The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG Inc. and any use of such marks by McIntosh is under license. Other trademarks and trade names are those of their respective owners.
	Roon Ready network devices have Roon's streaming technology built in, and are certified by Roon Labs to provide the highest level of quality and performance in network streaming.
	Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple, and AirPlay are trademarks of Apple Inc., registered in the U.S. and other countries and regions. To use AirPlay with the MX124 Streaming Audio Amplifier, the latest version of iOS, iPadOS, or macOS is recommended.
	The Spotify Software is subject to third party licenses found here: https://developer.spotify.com/third-party-licenses
	Qobuz Connect is a proprietary streaming technology developed by Qobuz. All related trademarks, logos, and software are the property of Xandrie SA. Unauthorized use, reproduction, or distribution of Qobuz Connect is strictly prohibited.
	TIDAL is the first global music streaming service with high fidelity sound, hi-def video quality, along with expertly curated playlists and original content - making it a trusted source for music and culture.

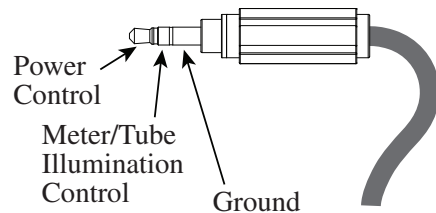
XLR Connectors



RCA Connectors

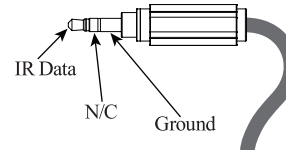


Power Control Connectors

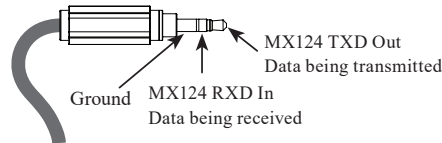


Data Ports and External Control Connectors

Data Ports send converted IR commands to other McIntosh components. A 3.5 mm stereo mini phone plug is used for connections. The IR IN port also uses a 3.5 mm stereo mini phone plug and allows the connection of other brand IR receivers to the MX124. The IR receiver must provide its own power supply.



The RS232-C data cable is a 3.5 mm stereo mini phone plug used to connect to external third party controllers.



NET Port (Ethernet / 10baseT LAN)

Use an Ethernet cable to connect the MX124 to a network router.

By default, the MX124 has DHCP On, and will automatically receive an IP address from the router. This setting can be changed.

Alternatively, the MX124 may be connected to a home network via wireless Wi-Fi. In this case, the Ethernet connection would not apply.

Optical

The two Optical inputs allow digital sources to be connected to the MX124 using TOSLINK cables also known as “optical audio cables.” The Optical inputs can handle high resolution digital audio up to 192 kHz / 24-bit. The MX124 DAC will process standard format SPDIF PCM signals, Dolby Digital, and DTS bitstreams. Unsupported formats can result in strange and/or unpleasant sounds.

Coax

The two digital Coaxial inputs allow digital sources to be connected to the MX124 using digital audio RCA coaxial cables. The COAX inputs can handle high-resolution digital audio up to 192 kHz / 24-bit. The MX124 DAC will process standard format SPDIF PCM signals, Dolby Digital, and DTS bitstreams. Unsupported formats can result in strange and/or unpleasant sounds.

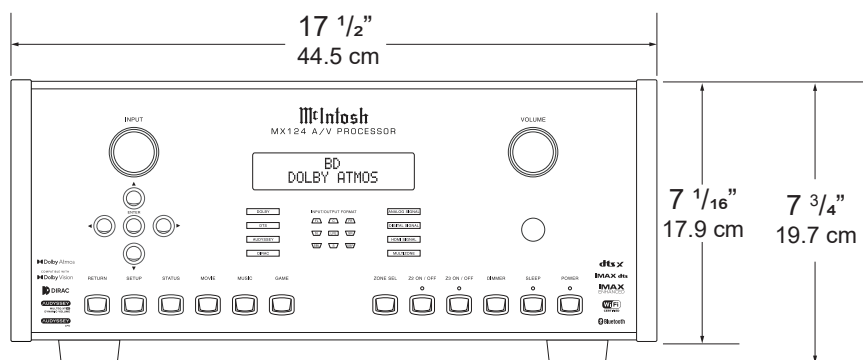
Installation

The MX124 may be placed upright on its four feet on a flat surface with proper ventilation and stability. When custom-installed in a cabinet or piece of furniture, the feet and mounting screws may be removed, and retained for future use or service. Ensure an appropriately sized Phillips drill bit is used to avoid damaging the screw heads.

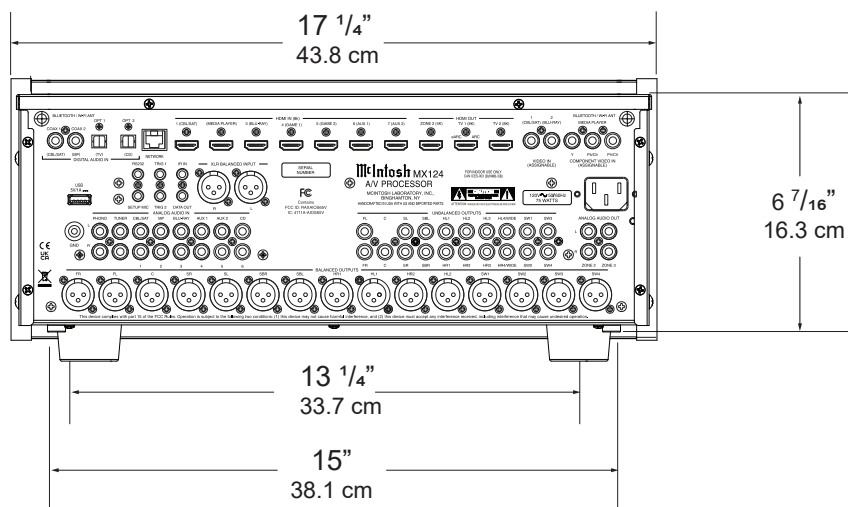
Do not install the MX124 directly above a heat generating component, and always provide adequate ventilation. Cool operation ensures the longest possible operating life for any electronic instrument. If all the components are installed in a single cabinet, a quiet-running ventilation fan can help maintain all system components.

To allow proper airflow to the MX124, ensure there are at least 6 inches (15.2 cm) above the top, 2 inches (5.1 cm) below the bottom, 2 inches (5.1 cm) depth behind the rear panel, and 2 inches (5.1 cm) on each side of the amp. Allow $1\frac{7}{16}$ inch (3.7 cm) in front of the mounting panel for knob clearance if the handles of the amplifier are removed.

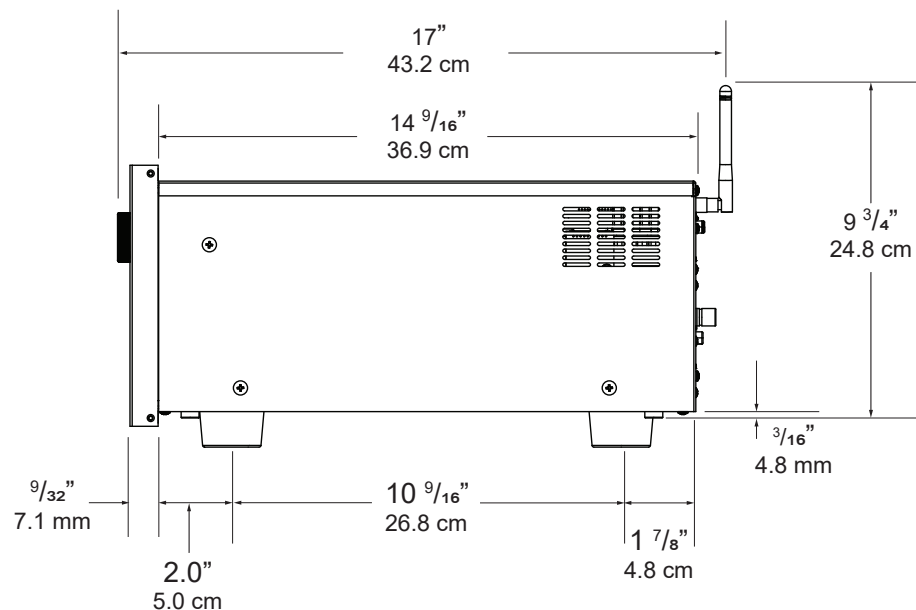
Front View of the MX124



Rear View of the MX124

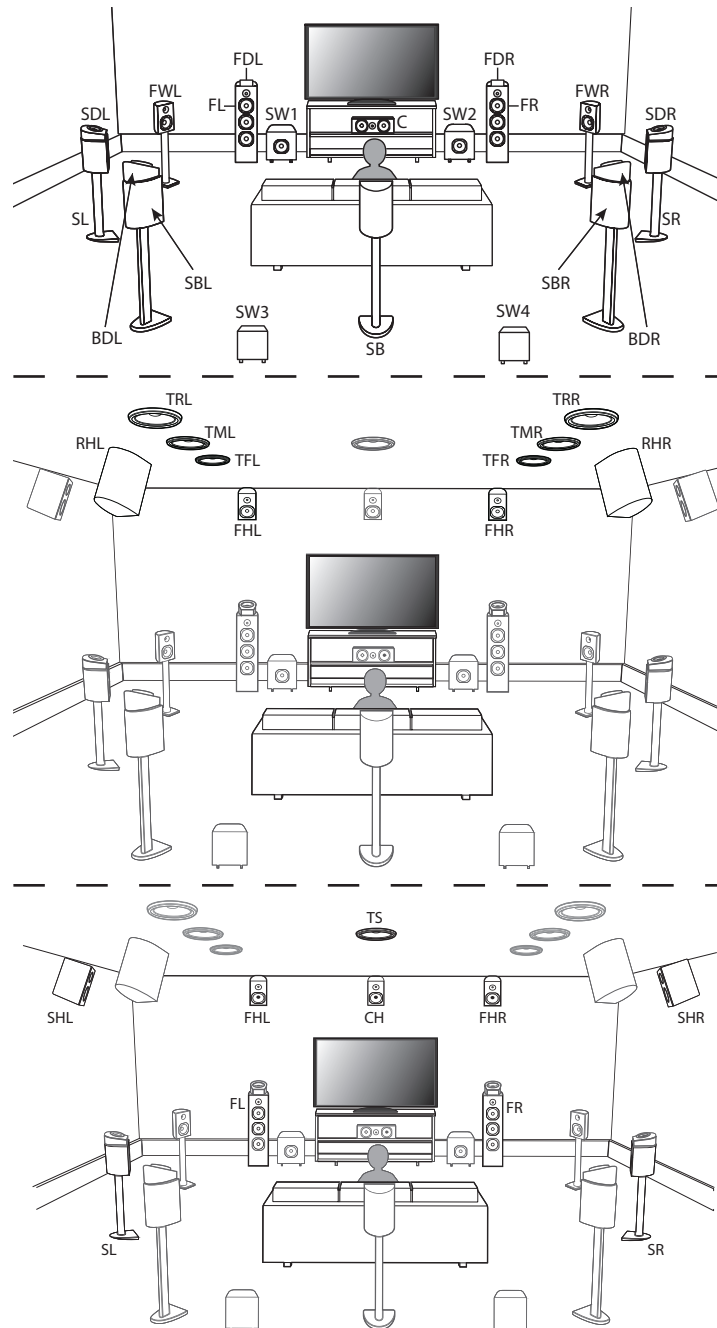


Side View of the MX124

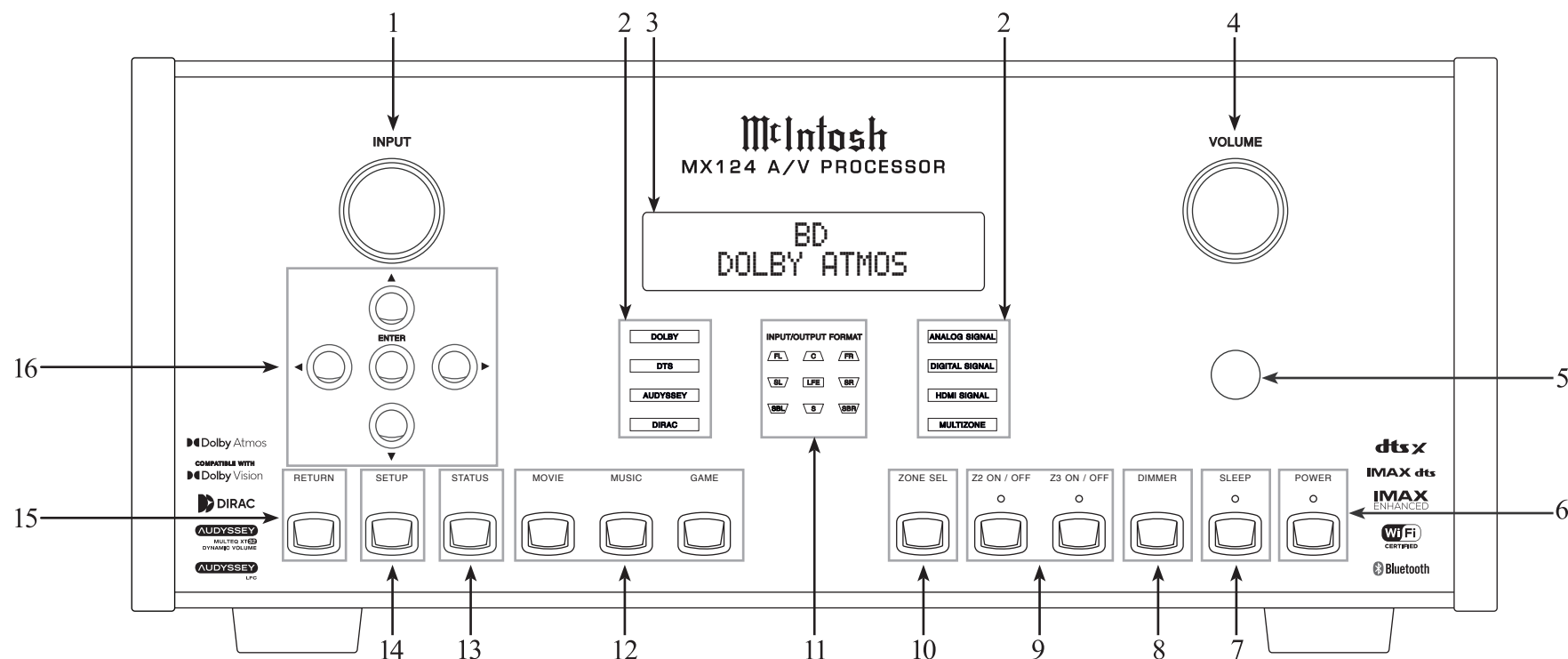


Speaker Installation

Position	Description
FL/FR (Front speaker Left/Right)	Front Left and Right speakers should be an equal distance from the main listening position. The distance between each speaker and the TV should also be the same.
C (Center)	The Center speaker should be between the Front speakers and above or below the TV.
SL/SR (Surround speaker Left/Right)	The Surround Left and Right speakers should be an equal distance from the left and right sides of the main listening position. If there are no Surround Back speakers, move the surround speakers slightly behind the main listening position.
FWL/FWR (Front Wide speaker Left/Right)	The Front Wide Left and Right speakers should be outside of the front Left and Right speakers so that there is an equal distance between all Front speakers.
SBL/SBR (Surround Back speaker Left/Right)	Place the Surround Back Left and Right speakers an equal distance from the main listening position and directly behind the main listening position. When using a single Surround Back speaker (SB), place it directly behind the listening position.
SW 1/2/3/4 (Subwoofer)	Place the Subwoofer at a convenient location near the Front speakers. If there are multiple Subwoofers, place pairs of subwoofers spaced symmetrically across the front or rear walls, or a single Sub midway between the front or rear pairs. Set a specific layout when using multiple subwoofers in the Speaker Layout menu.
FDL/FDR (Front Dolby speaker Left/Right)	Place the Front Dolby Atmos Enabled speaker on the Front speaker. For a Dolby Atmos Enabled integrated with a Front speaker, place the Dolby Atmos Enabled speaker instead of the Front speaker.
SDL/SDR (Surround Dolby speaker Left/Right)	Place the Surround Dolby Atmos Enabled speaker on the Surround speaker. For a Dolby Atmos Enabled speaker integrated with a Surround speaker, place the Dolby Atmos Enabled speaker instead of the Surround speaker.

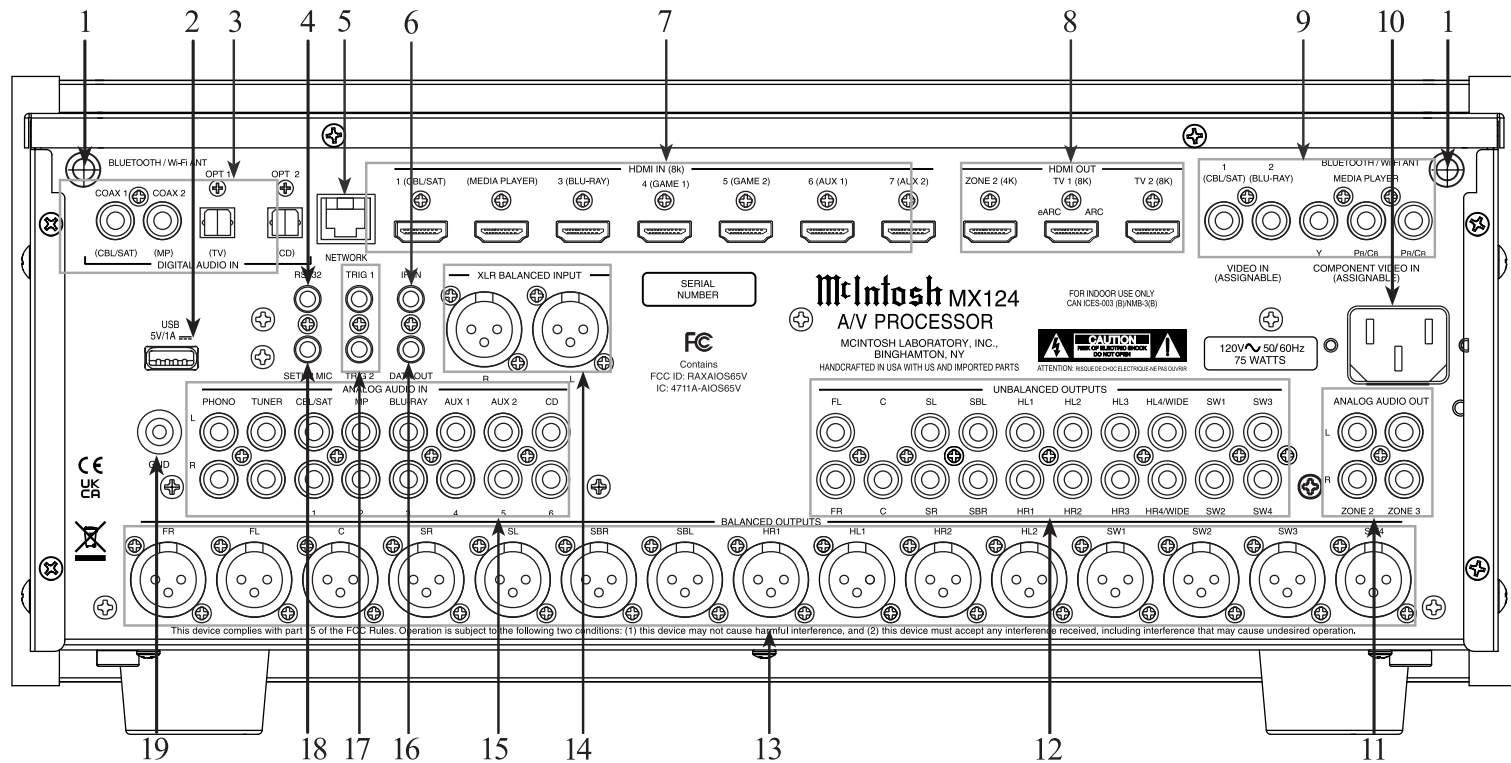


Position	Description
BDL/BDR (Back Dolby speaker Left/Right)	Place the Back Dolby Atmos Enabled speaker on the Surround Back speaker. For a Dolby Atmos Enabled speaker integrated with a Surround Back speaker, place the Dolby Atmos Enabled speaker instead of the Surround Back speaker.
FHL/FHR (Front Height speaker Left/Right)	Front Height Left and Right speakers are mounted directly above the Front speakers. Mount them as close to the ceiling as possible and aim them towards the main listening position.
TFL/TFR (Top Front speaker Left/Right)	Mount the Top Front Left and Right speakers on the ceiling slightly in front of the main listening position and align with the Left and Right Front speakers.
TML/TMR (Top Middle speaker Left/Right)	Mount the Top Middle Left and Right speakers directly above the main listening position and align with the Left and Right Front speakers.
TRL/TRR (Top Rear speaker Left/Right)	Mount the Top Rear Left and Right speakers on the ceiling slightly behind the main listening position and align with the Left and Right Front speakers.
RHL/RHR (Rear Height speaker Left/Right)	Place the Rear Height Left and Right speakers directly behind the main listening position. Mount them as close to the ceiling as possible and align with the Left and Right Front speakers.
SHL/SHR (Surround Height speaker Left/Right)	Place the Surround Height Left and Right speaker directly above the surround speakers.
CH (Center Height speaker)	Place the Center Height speaker directly above the center speaker. Mount them as close to the ceiling as possible and aim them towards the main listening position.
TS (Top Surround speaker)	Place the Top Surround speaker directly above the main listening position, and aligned with the Center Channel speaker.



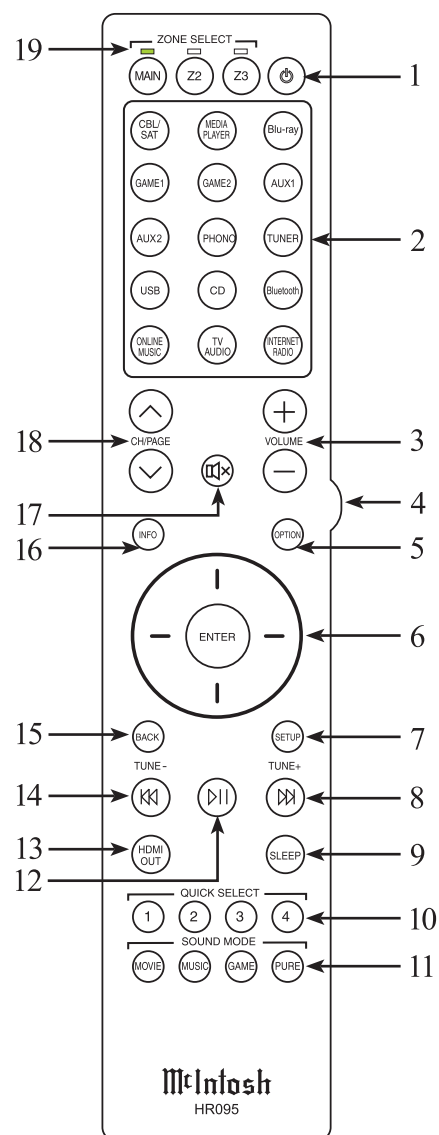
Front Panel

- INPUT knob** scrolls through enabled inputs.
- Signal format indicators** display the signal being input, with DOLBY, DTS, AUDYSSEY, DIRAC, ANALOG SIGNAL, DIGITAL SIGNAL, HDMI SIGNAL, and MULTIZONE as options.
- Information display** indicates the sources, volume, operational functions, and Setup menu settings.
- VOLUME knob** allows adjustment of the listening level.
- IR sensor** receives commands from a remote control.
- POWER button and LED indicator** switches the MX124 on or off, and indicates when the MX124 is in Standby.
- SLEEP** sets a sleep timer in ten minute increments, the maximum timer being two hours.
- DIMMER** cycles through the four brightness levels of the VFD.
- Zone ON/OFF** turns their respective zones ON and OFF.
- ZONE Select** allows the volume, and input of Zones 1 and 2 to be altered.
- INPUT/OUTPUT FORMAT** indicates which speaker channels are in use.
- Sound Mode buttons** allow quick access to the Movie, Music, and Game surround sound modes.
- STATUS** will step through the type of incoming audio signal, the selected input (along with type of A/V connection), and audio processing mode.
- SETUP** will bring up the Setup menu on an attached TV, and on the information display.
- RETURN** goes back to the previous Setup menu.
- Directional buttons** navigate through the Setup menu. The **ENTER button** selects the chosen values, and moves further into the menus.



Rear Panel

- 1. BLUETOOTH/WI-FI ANTennas** must be connected to receive Wi-Fi and Bluetooth signals.
- 2. USB input** for connecting USB memory storage devices.
- 3. DIGITAL AUDIO INputs** use coaxial or optical connections for digital signals, such as CBL/SAT, MP, TV, and CD.
- 4. RS232 connector** communicates with external control devices.
- 5. NETWORK connector** for a wired internet connection via Ethernet.
- 6. IR INput** connects to an IR receiver.
- 7. 8K HDMI INputs** allow 8K video from seven different sources, including CBL/SAT, MEDIA PLAYER, BLU-RAY, GAME 1, GAME 2, AUX 1, and AUX 2.
- 8. HDMI OUTputs** connect to an ARC/eARC TV.
- 9. VIDEO INPutS** accept composite, and component video inputs.
- 10. AC INput** connects the MX124 power cord to a live AC outlet. Refer to the rear panel for voltage requirements.
- 11. ANALOG AUDIO OUTputs** can be fed analog signals using a pair of RCA cables for each zone.
- 12. UNBALANCED OUTPUTS** use a RCA connector cable for an unbalanced output signal.
- 13. BALANCED OUTPUTS** each use an XLR connector cable for a balanced output signal.
- 14. XLR BALANCED INPUTS** accept high-level program source signals.
- 15. ANALOG AUDIO INPut** connect analog components to the MX124.
- 16. DATA OUT** retransmits remote control signals to source components.
- 17. Power Control TRIGgers 1 & 2** send On/Off signals to other McIntosh components.
- 18. SETUP MIC** connects a microphone to the MX124.
- 19. Ground Connection** to use with a turntable to prevent noise.



- Power** turns the power on and off.
- Inputs** selects from 15 available audio inputs.
- VOLUME** adjusts the volume level.
- Backlight** turns on the backlight of the unit.
- OPTION** activates an on-screen menu for audio/visual features.
- Navigation** scroll through the menus using the arrows and press ENTER to select.
- Setup** displays the Setup Menu.
- ▶▶** skips to the next track, and can be used to skip and search in internet radio.
- SLEEP** sets a sleep timer for up to 120 minutes in 10 minute increments.
- QUICK SELECT** recalls previously programmed presets such as Input, Volume Level, and Sound Mode for the currently selected Zone.
- SOUND MODE** offers various sound choices in Movie, Music, Game, or Pure categories.
- Play/Pause** pressing this button will halt playback of active media, and it will resume from where it left off when the button is pressed again.
- HDMI OUT** selects the HDMI output.
- ◀◀** skips to the previous track, and can be used to skip and search in internet radio.
- BACK** returns to previous setup menu.
- INFO** shows on-screen information for the currently selected Input when in the Main Zone.
- Mute** silences the audio output.
- CH/PAGE** switches the browser list pages for online music and USB.
- ZONE SELECT** indicates and changes the current Zone.

Remote Lock

To disable the sensor for the remote control, press and hold RETURN, ENTER, and the power button on the front of the unit while the MX124 is in Standby. Use the Up/Down buttons on the front panel to select RC LOCK On, and press ENTER to lock in the setting. This disables the infrared receiving light function, no longer allowing the remote to control the MX124. To turn the function of the remote control back on, repeat these steps, and select RC LOCK *Off.

Panel Lock

To disable the operation from the front panel, press and hold RETURN, ENTER, and the power button on the front of the unit while the MX124 is in Standby. Use the Up/Down buttons on the front panel to select FP/VOL LOCK On, and press ENTER to lock in the setting. This disables all front panel controls on the MX124. Lock all front panel functions except volume by selecting FP LOCK On. To turn the function of the front panel back on, repeat these steps, and select FP LOCK *Off.

Note: The included McIntosh HR095 remote control has buttons used to control multiple devices. While operating the MX124 with the remote, nothing will happen when pressing buttons that activate features not present on the MX124.

Options

The remote control's OPTION button can be used in the MAIN Zone to adjust settings for the selected Input. The adjustments include Dialog Enhancer, Channel Level Adjust, Tone, Picture Mode, and All Zone Stereo. All settings in the Options menu are stored for each source.

Dialog Enhancer adjusts the center channel frequency band to enhance the dialogue in the movies, and vocals in music. By default, Dialog Enhancer is Off, but can be changed to Low, Medium, or High.

Channel Level Adjust allows each channel to be adjusted from -12 dB to +12 dB while listening to music.

Tone allows the user to select whether or not the tone circuit is engaged. When turned Off, the tone controls are bypassed and the audio signal is unaltered.

Audio Delay automatically adjusts the audio processing time to compensate for delays in audio/video timing. By default, Audio Delay is On, but can be turned Off so the delay can be set manually from 0 ms to 500 ms.

All Zone Stereo allows music to be played from the MAIN ZONE into ZONE2 and ZONE3.

Sound Mode

There are three buttons on the front panel that give quick access to multiple sound/surround modes, MOVIE, MUSIC, and GAME. These modes can also be accessed on the remote control with the added choice of PURE.

The options provided in these modes include Stereo, Dolby Audio - Dolby Digital, DTS Neural:X, and Multi Ch Stereo. When using Dirac Bass Management, Dirac Bass Control in Multi Ch Stereo mode, Distances, Levels, and Crossovers can be applied as filter options. Acoustic filters are not available.

The PURE button on the remote offers multiple options. Direct plays back audio as recorded in the source. Pure Direct plays back an even higher quality sound. When using Dirac Room Correction, Bass Management, Dirac Bass Control in Direct and Pure Direct mode, Distances, Levels, and Crossovers can be applied as filter options. Acoustic filters are not available. In order to further improve sound quality, the front panel display will be disabled, and the analog video Input/Output switcher, and processor is disabled.

Auto detects the type of digital signal input, and the Playback Mode switches automatically to the corresponding mode. If the signal is analog or PCM (2-channel), stereo playback is used. For Dolby Digital or DTS, the music is played back according to the channel number.

When using a 2-channel signal, DTS Virtual: X is available, but does not work with Dolby Digital. The display screen will leave the Sound Mode screen after 5 seconds.

Additionally, the MX124 is equipped with DTS:X Pro decoder technology, bringing the home theater experience to new heights with immersive, object-based technology. Enjoy up to 13.1 channels of audio processing with this automatic feature.

Basic Operation

Powering On / Turning Off

The red LED above the POWER button indicates the MX124 is in Standby mode. To switch on the MX124, press the POWER button on the front panel, or press the ⏻ button on the remote control. Upon turning on the unit, there will be a brief warm-up period before the unit is ready to use.

The MX124 has the ability to automatically switch power on or off to source components via the power control connections.

The data port connection allows the operation of basic functions using the remote control. With an external sensor connected to the MX124, remote control operation of the system is possible from another room and/or when the MX124 is located in a cabinet with the doors closed.

Input Selection

Rotate the INPUT knob on the front panel, or use the input buttons on the remote control to select the desired input.

Volume Control

Rotate the front panel VOLUME knob, or use the VOLUME (+) (-) buttons on the remote control to set the desired listening level.

Playing Back PC and NAS Files

To play music stored on the local network, select the Online Music input and scroll to Music Servers. After pressing Music Servers, choose the name of the networked PC or Network Attached Storage server. Once done, select something to play.

Bluetooth

Pair a Bluetooth device to enjoy music on the MX124. Connect the supplied external antennas to the connectors on the rear panel, and power on the unit.

When using Bluetooth for the first time, the unit will indicate on the display that it is in Pairing Mode after pressing Bluetooth on the remote control. In the settings of a Bluetooth device, select the name of the unit in the list of devices displayed on the screen. After the initial connection, the unit will automatically connect to the device first connected to the MX124 when the Bluetooth input is selected. To pair to a second device, press and hold the Bluetooth button on the remote, or select Pairing Mode in the Options menu. The MX124 can be connected with up to 8 Bluetooth devices.

The MX124 allows headphone connection via Bluetooth while playing through the MAIN ZONE. Ensure the Bluetooth Transmitter is On in the General Settings menu. Enter pairing mode on the headphones being used and select them in Device List in the Bluetooth Transmitter submenu of the MX124. Once connected, decide to listen with Bluetooth+Speakers, or the Bluetooth Only in Output Mode.

To disconnect Bluetooth headphones from the MX124, turn off the headphones, or go to Bluetooth Transmitter in the Options menu and select Disconnect. Alternatively, turn Transmitter Off under Bluetooth Transmitter settings in the General Setup settings menu.

Network Connections

• Ethernet

For a wired connection to a network, use an Ethernet cable to connect the MX124 to the router. Note that plugging in an Ethernet cable will disable the Wi-Fi radio of the MX124.

The MX124 will use the Ethernet connection for all network activity. To enable Wi-Fi, the Ethernet cable must be removed.

With an Ethernet connection, the MX124 browser interface can be used to enter Wi-Fi settings. Check the IP Address of the MX124 in the Information submenu of the Network Settings menu, and type the address into a browser on a PC or mobile device.

To connect the MX124 to a Wi-Fi network using an existing Ethernet connection, begin by opening ensuring Wired (Ethernet) is selected in the Connection submenu of the Network Settings menu.

• Scan Networks

To wirelessly connect to a network on the MX124, enter the Connection submenu in Network Settings. Connect by selecting Wireless (Wi-Fi), and going to Wi-Fi Setup. Pressing Scan Networks will open the local network selection menu. Select the desired network and enter the password to connect the MX124.

• Using an iOS Device

- AirPlay is an Apple technology designed to control home audio systems and speakers in any room with a tap, or by asking Siri.
- To set up the MX124 as an AirPlay device, a device with iOS 10.0.2 or later is required. To play with AirPlay 2, iOS 11.4 or later is required. AirPlay will connect the MX124 to a local Wi-Fi network automatically.

Make sure the iOS device is on the Wi-Fi network the MX124 is connected to, and the MX124 is powered on. Open Settings on the iOS device and select the Wi-Fi submenu. Look at the Wi-Fi network list and find “Set Up New AirPlay Speaker.” Select the MX124, and it will be added to the network. Alternatively, use the iOS Home app to join the MX124 to the network.

• WPS Router

To connect to a WPS Router enter the Connection submenu in Network Settings. Connect by selecting Wireless (Wi-Fi), and going to Wi-Fi Setup. Pressing WPS Router will open a screen with instructions to press the WPS button on the local router. Within two minutes, select the Connect button.

• Manual

To connect to a network manually, enter the Connection submenu in Network Settings. Connect by selecting Wireless (Wi-Fi), and going to Wi-Fi Setup. Pressing Manual will open a menu where the SSID and Password can be entered to connect to the network.

• Roon

The MX124 is Roon Ready when connected to a network, and will be available as a Zone for a Roon server. The MX124 can be connected to Wi-Fi using any of the methods previously listed. It can also be directly connected with an Ethernet cable.

• Qobuz Connect

Qobuz is a high quality music platform. Pioneer of high quality sound since 2007, the French platform offers an intimate and enriching experience. Qobuz gives access to an unparalleled wealth of content: more than 100 million tracks available in the best sound quality (Hi-Res and lossless/CD), and exclusive editorial content written by a team of experts.

Use a phone, tablet, or computer as a remote control for Qobuz. Go to <https://www.qobuz.com/us-en/magazine/story/2025/05/14/qobuz-connect-how-it-works/> to learn how.

• Spotify Connect

Spotify Connect allows the MX124 to connect to a phone, tablet, or computer. Connect the MX124 to a network, then while playing music on Spotify, select the MX124 to listen on in the bottom left corner of the screen.

Use a phone, tablet, or computer as a remote control for Spotify. Go to <https://www.spotify.com/connect> to learn how.

• Tidal Connect

To listen to music on Tidal through the MX124, using the Tidal app, select content to play and then select the connect icon  on the Now Playing screen. This will bring up a list of nearby devices to stream through. Locate the MX124, and select to pair.

Once paired, use the Tidal app as a remote. Tidal is compatible with select smart assistants that enable voice controls. Depending on the region, voice controls may be enabled by linking a Tidal account with the selected smart device. This option can normally be found in the Settings section of the respective Smart Devices app.

• AirPlay

AirPlay is an Apple technology designed to control home audio systems and speakers in any room with a tap when the device is on a network. To control this AirPlay enabled device, follow the Using an iOS Device instructions on the previous page.

HDMI ARC/eARC

The HDMI ARC (Audio Return Channel) allows the entire audio system to play the sound from a TV. Ensure the MX124 is connected to the TV's HDMI input that is labeled "ARC." The TV's Setup menu, and settings may need to be adjusted before sound is heard. When the MX124 is set to the HDMI input, the unit will automatically turn On and Off with the TV. Multi-channel formats will be down mixed to a 2-channel output. Audio formats supported by HDMI ARC include, PCM (2 channel), Dolby Digital (up to 5.1 channel), DTS Digital Surround (up to 5.1 channel).

eARC is the enhanced version of ARC, supporting uncompressed, high-quality audio formats such as Dolby Atmos, IMAX Enhanced, and DTS:X.

• Web Control

The MX124 may be configured via a web browser if correctly connected to a network. In the web browser, the Setup Menu, power, and Main Zone input source switching may be controlled. Begin by setting the Network Control setting to Always On, and check the IP address of the unit in the Information section of the Network menu. On a PC or tablet, enter the IP address of the MX124 in a browser's address box.

Setup Menus

Menus	Submenus
Audio	Subwoofer Level Adjust, Bass Sync, Surround Parameter, DFR, Volume, Audyssey, Dirac Live, Graphic EQ, DAC Filter
Video	HDMI Setup, Output Settings, On-Screen Display, Screen Saver, 4K/8K Signal Format, HDCP Setup
Inputs	Input Assign, Source Rename, Hide Sources, Source Level
Speakers	Audyssey Setup, Manual Setup
Network	Information, Connection, Settings, Network Control, Friendly Name, Diagnostics, AirPlay, Spotify Connect, Roon Ready, TIDAL Connect, Qobuz Connect, Wi-Fi and Bluetooth
General	Language, Bluetooth Transmitter, ZONE 2 and 3 Setup, Zone Rename, Quick Select, Trigger Out 1-2, Auto Standby, Front Display, Firmware, Information, Save & Load, Setup Lock, Reset

How to Navigate the Setup Menus

The McIntosh MX124 has been factory configured so default operating settings allow immediate enjoyment of superb audio, and video without the need for further adjustments. If the settings must be changed from the factory default settings, a Setup menu is provided to customize the operating settings using the TV connected to the unit. Enter the Setup menu by pressing the SETUP button on the front panel of remote control. To scroll through the menus, use the arrow keys in the center of the remote.

Audio Setup Submenu

Settings	Options
Subwoofer Level Adjust	-12.0 dB - 0.0 dB - +12.0 dB
Bass Sync	0 ms - 16 ms
Surround Parameter	
DFR	High, Medium, Low, Off
Volume	
Audyssey	
Dirac Live	
Graphic EQ	
DAC Filter	Filter 1 , Filter 2

Note: Options in bold are the default settings.

• Subwoofer Level Adjust

Subwoofer Level Adjust changes the subwoofer volume level for all input sources, with a range of -12 dB to +12 dB.

Bass Sync

Bass Sync corrects the delay of low frequency effects for multi-channel content, such as Blu-ray discs with a correction range of 0 to 16 ms.

• Sound Parameter

Surround Parameter allows the surround audio-sound field effects to be adjusted for each sound mode. Certain settings must be set during playback.

Cinema EQ softens the upper treble range of movie sound tracks to improve clarity. By default, this feature is turned Off. Cinema EQ cannot be set when the sound mode is set to Direct, Pure Direct, Stereo, or Multi Ch Stereo.

Loudness Management uses settings made in Dynamic Compression, and compresses the dynamic range of audio based on user preference. By default, Loudness Management is On.

Dynamic Compression sets the sound compression level, changing the difference between loud and soft sounds. By default, this feature is Off, but can be set to Automatic, Low, Medium, or High. Dynamic Compression can be set when the input is Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, or DTS.

Dialogue Control adjusts the volume of dialogue in videos, and vocals in music, with a range of 0 to 6.

Low Frequency Effects adjusts the level of low frequency effects and ranges from -10 dB to 0 dB. The recommended settings for Dolby Digital and DTS movie sources is 0 dB, and -10 dB for DTS music sources.

Speaker Virtualizer enhances speaker channels to create a surround sound effect. By default, this feature is On.

Center Spread expands the center channel signal to create a sound stage effect for the listener, primarily used for music. By default, this feature is Off, and may only be adjusted when the sound mode is set to Dolby Surround.

DTS Neural X optimizes non-object based audio signals for a specific speaker configuration. By default, this feature is On, and may only be adjusted when the sound mode is set to DTS:X.

IMAX sets the audio mode for IMAX playback. By default, this feature is set on Auto, and automatically enables IMAX mode when IMAX content is detected.

IMAX Audio Settings can be configured so a system will mimic an IMAX theater. By default, this feature is set on Auto and automatically optimizes speaker settings. This setting may only be adjusted when the sound mode is set to IMAX DTS or IMAX DTS:X.

High Pass Filter sets the cutoff frequency for all speakers during IMAX playback when IMAX audio settings are set to Manual, with a range of 40 Hz to 250 Hz and a default of 80 Hz.

Low Pass Filter sets the cutoff frequency of low frequency effects during IMAX playback. IMAX audio settings must be set to Manual to change this setting, which offers a range of 70 to 250 Hz.

Subwoofer Output sets the bass signal for the subwoofer during IMAX playback when IMAX audio settings are set to Manual. By default, only the Low Frequency Effect signals are played.

Speaker Select selects which speakers output sound in the current sound mode. By default, this feature uses Floor and Height speakers. This setting may only be used adjusted when the sound mode is set to Multi Ch Stereo.

Subwoofer turns the subwoofer outputs On and Off. By default, the subwoofers are used. This setting may be adjusted when the sound mode is Direct or Stereo, and when LFE + Main is set in Subwoofer Output.

Set Defaults returns all Surround Parameter settings to default.

• DFR

Dynamic Frequency Restorer takes the sound of compressed audio and restores its quality to near-pre-compression. By default, DFR is Off, but can be changed to High, Medium, or Low. High is optimized for sources with very weak highs (64 kbps and under), Medium applies a suitable bass and treble boost (96 kbps and under), and Low is optimized for sources with normal highs (96 kbps and over). This setting may not be adjusted when the sound mode is set to Direct or Pure Direct.

• Volume

Volume controls the MAIN ZONE volume settings.

Scale sets whether the volume is displayed in typical 0-98 format, or in decibels.

Limit sets the maximum volume with a range of 40 to 80. By default, there is no maximum volume.

Power On Level sets the volume level when the MX124 is on. By default, the unit will maintain the volume level it was last set at.

Mute Level sets the amount of attenuation when mute is on. By default, Full mute is set, but this may be changed so the mute level is -40 dB, or -20 dB lower than the current volume.

• Audyssey®

Sets Audyssey settings after initial Audyssey setup has been performed.

MultEQ XT32 compensates for time, and frequency in relation to the measured listening area. MultEQ XT32 is set to the recommended Reference setting, but may be changed to L/R Bypass, which omits the left and right front speakers, Flat, which is optimized for small rooms, and the setting may be turned off altogether.

Dynamic EQ decreases volume to prevent deteriorating sound quality. By default, Dynamic EQ is On, and Tone cannot be adjusted.

Reference Level Offset provides four presets for media of varying mix levels. 0 dB is the default and is optimized for movies, 5 dB is for content with a very wide dynamic range such as classical music, 10 dB is for content with a wide dynamic range like jazz, and 15 dB is for content mixed at very high listening levels like pop or rock music. This setting is available when Dynamic EQ is On.

Surround Level Compensation amplifies the volume of the surround, and rear channels in accordance with the Dynamic EQ to maintain the surround sound effect. By default, it is set to Heavy, which increases the volume by 8.5 based on the master volume. Medium increases the volume by 5.6 dB, Light by 2.8 dB, and Off makes no increase to the surround and rear channels.

Dynamic Volume adjusts the volume between content types automatically. By default, Dynamic Volume is Off, but it may be changed to adjust loudest and softest sounds for Heavy, Medium, and Light adjustment. Dynamic Volume may not be adjusted when MultEQ XT32 is Off.

Audyssey LFC prevents bass, and vibration from being carried to other rooms by adjusting the low frequency band. By default, Audyssey LFC is Off. Audyssey LFC may not be adjusted when MultEQ XT32 is Off.

Containment Amount adjusts low frequency containment, 1 containing the least and 7 containing the most amount of sounds. Containment amount may be adjusted when Audyssey LFC is On.

• Dirac Live

Dirac Live sets a filter after running Dirac Live Room Correction. *See pages 23 and 24 for Dirac Live information.*

• Graphic EQ

Graphic EQ adjusts the tone of each speaker. The Direct and Pure Direct sounds modes must be Off to adjust this setting, as well as MultEQ XT32.

Graphic EQ sets whether or not graphic equalizer is used. By default, graphic equalizer is not used.

Speaker Selection selects which speakers to adjust the tones of. By default, the Left and Right speakers tones are adjusted together, but this may be adjusted so all speakers tones are connected, or so Each has to be individually tuned.

Adjust EQ adjusts the tonal balance of each frequency band per speaker.

Curve Copy copies the correction curve created in Audyssey setup.

Set Defaults return all Graphic EQ settings to default.

• DAC Filter

DAC Filter allows for the selection of multiple filters. By default, Filter 1 is enabled to output the McIntosh sound, but Filter 2 may be selected to use bench test measurements.

Settings	Options
HDMI Setup	
Output Settings	
On-Screen Display	
Screensaver	On, Off
4K/8K Signal Format	Standard, Enhanced , 8k Enhanced
HDCP Setup	Auto , 1.4, 2.3

• HDMI Setup

The HDMI setup menu allows the configuration of HDMI settings related to video processing and audio.

HDMI Audio Out selects which speakers audio is being sent to. By default, audio is output through the speakers connected to a power amp, but can be switched to play through TV speakers with the TV setting.

HDMI Pass Through selects whether or not HDMI signals will be transmitted to the HDMI output when the unit is in Standby Power Mode. By default, this feature is On (Off in Europe).

Pass Through Source selects which HDMI input signals pass through in Standby. By default, CBL/SAT is the Standby source (Last in Europe), but this can be changed to any other input, or the Last setting which selects the last used HDMI input to pass through. Pass Through Source may be adjusted when HDMI Control or HDMI Pass Through is on.

RC Source Select sets whether or not the unit can be turned on by the input source select on the remote control when the unit is on Standby. By default, the power turns on and the input changes, but this can be changed with the Source Select Only setting.

HDMI Control connects the volume, and power of the unit and TV. If turned off, the TV remote cannot control the functions of the TV and unit in tandem. Certain HDMI settings may only be adjusted when HDMI Control is On.

ARC decides whether the unit will receive sound from the HDMI OUT TV 1 connector, even if HDMI Control is off. By default, this feature is Off.

TV Audio Switching changes to the TV Audio input when a TV connected via HDMI sends a command. By default, this feature is On.

Power Off Control links the power of the MX124 to external devices. By default, this feature is set to All, which puts the MX124 in Standby when a connected TV is turned off, independently of the input source. If switched to the Video setting, the unit will go into Standby when the TV is turned Off. Power Off Control can be turned Off so the power of the TV and unit are not connected.

Power Saving reduces energy costs, and can activate Power Control when TV Audio is selected as the input source, or when playing content from a device connected by HDMI. By default, this feature is turned Off.

• Output Settings

The Output Settings menu allows the configuration of video output settings

HDMI Video Output selects the HDMI monitor connector being used. By default, this feature is set to Auto (Dual) in which the output being used is detected automatically. This can be changed so only TV 1 or TV 2 is being used.

Video Mode configures the video processing method to match the video being played. By default, this feature is set to Auto, which allows the unit to automatically process the video based on the HDMI content information. The user can set this setting to Game or Movie, which will make the unit perform processing suitable for either type of media. The Bypass setting will remove all video processing from the HDMI video path. Video Mode cannot be set when the sound mode is set to IMAX or IMAX DTS:X.

HDMI Upscaler upscales 1080p and 4k HDMI video to 8k based on the TV's capabilities. By default, this feature is Off.

• On-Screen Display

Volume sets the location of the volume level. By default, the volume is displayed at the Bottom of the screen, but can be moved to the Top, or turned off so it is not displayed.

Info displays operation status when an input source is switched. By default, this is turned On.

Now Playing sets the playback display time when the input source is Online Music, or Bluetooth. By default, this is Always On, but can be switched to Auto Off which only shows the display for 30 seconds after operation.

21:9 Mode shifts the position of the volume, options, and information menus into a viewable area when using a 21:9 ratio display. By default, 21:9 Mode is Off.

• Screensaver

Screensaver activates if there is no operation detected for five minutes when Screensaver is turned On.

• 4K/8K Signal Format

4K/8K Signal Format sets the signal format options for devices connected to each input. By default, this feature is set to Enhanced for a TV, source device, and cables that can support high quality 4k 60 Hz 4:4:4 8 bit, 4:2:2:2, or 4:2:0 10 bit video signals. 8k Enhanced can be selected if a setup can support high quality 8k 60 Hz or 4k 120 Hz video signals. Set to standard for a setup that can support 4k 60 Hz 4:2:0 8 bit video signals.

• HDCP Setup

HDCP Setup sets the HDCP version for each input source. This feature is automatically set to Auto, which automatically applies the HDCP version according to the TV. This setting can be changes so it is set to 1.4 or 2.3.

Inputs Setup Submenu

Settings	Options
Input Assign	
Source Rename	CBL/SAT, Media Player, Blu-ray, Game1, Game2, AUX1, AUX2, TV Audio, CD, Phono, Tuner
Hide Sources	Show, Hide
Source Level	

• Input Assign

Input assign adjusts settings related to input source playback.

HDMI assigns HDMI input connectors to inputs 1-7 when needed.

Digital assigns digital audio input connectors to COAX1, COAX2, OPT1, or OPT 2 when needed.

Analog assigns Analog input connectors to inputs 1-6, or XLR when needed.

Video assigns video input connectors and composite video input connectors to inputs COMP, VIDEO1, or VIDEO2 when needed.

Input Mode sets the audio input modes for each input. The default setting, Auto, is recommended for Input Mode, but can be changed to HDMI, Digital, or Analog so it plays signals from only the selected input.

Set Defaults sets Input Assign back to the default settings.

• Source Rename

Source Rename changes the display name of the selected input source. If the device name can be acquired from an HDMI device connected to the unit, the display name will change automatically. Default names can be returned by selecting the Set Defaults setting.

• Hide Sources

Hide Sources hides the input sources not being used. By default, all sources are shown on the display.

• Source Level

Source Level corrects the playback level of a selected source's audio input.

Source Level can be adjusted between -12 dB and +12 dB when using Online Music.

Analog Inputs/Digital Inputs set the source level of analog or digital inputs.

Speaker Setup Submenu

Settings	Options
Audyssey Setup	Speaker Layout, Check Results, Restore..., Start
Manual Setup	Speaker Layout, Distances, Levels, Crossovers, Speaker Preset, Advanced

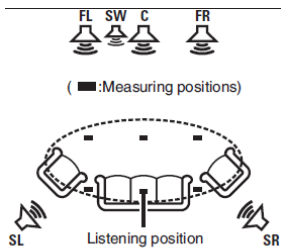
• Audyssey Setup

Audyssey is an intelligent system which automatically calibrates a setup to properly interact with a room’s acoustics.

To perform measurements, place the sound calibration microphone in multiple locations around the listening area, always within 2 ft (60 cm) of the main listening position. The main listening position is where one would typically sit alone in the listening environment. Ensure the room is as silent as possible, there are no cellphones, and no obstacles stand between the speakers and microphone.

Measuring in six or more positions is recommended for the best results. Audyssey MultEQ XT32 use the measurements from the main listening position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer. Audyssey Sub EQ HT™ corrects audio based on the volume and distance of subwoofers and utilized the Audyssey MultEQ XT32 signal to reproduce powerful low frequency sounds. To run Audyssey Sub EQ HT, set Measure (2 spkrs), Measure (3 spkrs), or Measure (4 spkrs), and set Subwoofer Mode to Standard in Speaker Layout.

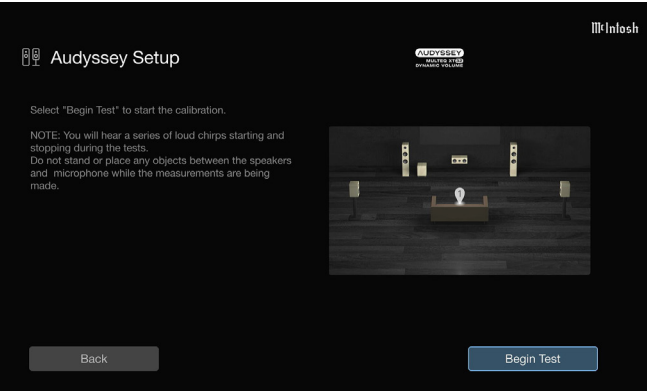
Preparation: Before installing the Audyssey microphone in the main listening position, attach it to the supplied stand. Ensure the tip of the microphone is pointed toward the ceiling and the height of the stand matches the ear level of a seated listener.



When using a subwoofer with a direct mode, turn direct mode On, and disable both the Volume Adjustment, and Crossover Frequency settings. When using a subwoofer without direct mode set the volume in the 10 o’clock position, set the crossover frequency to its maximum, turn Low Pass Filter Off, and disable Standby mode. Connect the sound calibration microphone to the SETUP MIC jack on the rear panel of the MX124.

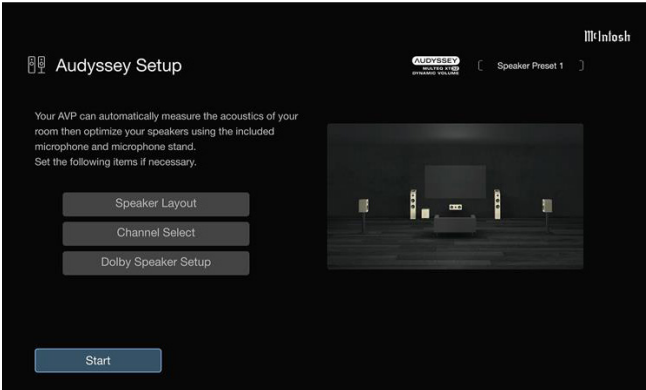
- Speaker Layout sets the systems speakers to suit the environment.
- Channel Select measures the front speakers if Amp Assign is set to 11.1ch + Front B.
- Dolby Speaker Setup sets the distance between the Dolby Atmos Enabled speaker and the ceiling speakers, which can be set when any Dolby Atmos speaker setting is enabled.

Select Start and follow the instructions on the screen, pressing Next to proceed.



Measurement: Select Begin Test to start measurements, noting that measurement requires several minutes. If ERROR or CAUTION is displayed on the screen, go to Error Messages to check related items, performing any necessary procedures. If the volume level of the subwoofer is inadequate, an error message will appear. See page 20 for error messages.

When the detected speaker is displayed, select Next and move the sound calibration microphone to position 2. Repeat this step with each consecutive position, in up to eight positions.



Calculation and Storage: Once measurements are complete, Audyssey will analyze the results for several minutes. Ensure the power remains on when analysis is taking place. Turning on Dynamic EQ is an option once analysis has taken place to correct the frequency response so media may be heard at a low volume. The output volume is monitored and altered to remain steady and audible in a room.

Finishing Setup: Once analysis and storage has ended, unplug to sound calibration microphone from the SETUP MIC jack on the main unit and press Next. Measurement data is automatically stored to Speaker Preset 1 in the Speaker Preset menu. To verify measurement results, select Details. Do not enable new speakers in the speaker layout after Audyssey setup, if the layout has changed, rerun Audyssey setup. Note that subwoofers may measure a greater distance than they are due to common electrical delay.

Error Messages: During Audyssey setup an error message may pop up, if this occurs, reference the table below.

No Speakers Found	The sound calibration microphone is not detected, or not all speakers could be detected	Connect the included sound calibration microphone to the SETUP MIC jack, or check the speaker connections
Ambient Noise is too High or Level is too Low	Excess noise in the room, or the speaker/subwoofer sound is too low	Ensure quiet surroundings, check the speaker installation, or adjust the subwoofer volume
Front R : None	The displayed speaker could not be detected	Check the connections of the displayed speaker
Front R : Phase	The display speaker is connected with the polarity reversed	Check the polarity of the displayed speaker, or if certain of the speaker being properly connected, press Ignore

The ideal level of each subwoofer measurement is 75 dB, and an error message will appear when one level of subwoofers is outside the range of 72 dB - 78 dB.

After selecting SW Level Matching, adjust the volume control on the subwoofer so it measures in the 72 dB - 78 dB range.

• Manual Setup

• Speaker Layout

Speaker Layout allows for the selection of a speaker layout suitable to a speaker system

Amp Assign configures detailed preamplifier settings manually. By default, MAIN ZONE can play up to 13.1-channels, but you can connect speakers for up to 15.1-channels. This setting can be changed to 11.1 ch (Bi-Amp) to create bi-amp connections with the front speaker, 11.1ch + Front B to connect two front speakers, or Custom to assign the preamplifier of the unit as desired. Go to Settings to assign a channel to a speaker terminal.

Front/Center/Surround/Surround Back/Front Wide selects which speakers exist in a system by turning the Front, Center, Surround, and Front Wide On or Off. Configuration for the Surround Back speakers is separate. By default, two speakers are used, but this can be changed to one speaker, or none.

Height Speakers selects the amount of height speakers, ceiling speakers, and Dolby Atmos Enabled speakers used in MAIN ZONE. None may be used, though 2, 4, 5, 6, 7, or 8 speakers used at a time is optional. 5 or more speakers should be selected when Top Surround or Center Height speakers are being used. 7 or 8 speakers can be selected when Front Wide is not used.

Layout selects the layout of speakers for a 2, 4, or 6-channel setup of height, ceiling, or Dolby Atmos Enabled speakers.

Subwoofers sets the presence of the subwoofers. By default, only one is used, though up to four may be selected.

Subwoofer Mode sets the audio to be output from the subwoofer when using multiple subwoofers. By default, this is set to Standard in which all active subwoofers output LFE signals and bass below the crossover frequency of all the speakers. This setting may be changed to Directional in which the bass output is below the crossover frequency of the speakers placed beside them.

Subwoofer Layout configures the layout of multiple subwoofers. The options for this setting change depending on the amount of subwoofers being used. Left/Right is the default, meaning the subwoofers are set symmetrically on the front side. When set to 2 spkrs, Front/Rear is an option when placing a subwoofer in the middle of the front side and another in the middle of the rear

side of a setup. 3 spkrs has a FL/FR/Rear option for two subwoofers set symmetrically on the front side and one in the middle of the rear side of a setup. 4 spkrs has a FL/FR/RL/RR options for four subwoofers in each corner of the room.

Bi-Amp determines which connector is used for the Bi-Amp connection of the front speakers. 11.1ch (Bi-Amp) must be set in Amp Assign to adjust the Bi-Amp setting.

Front B determines which connector is used for the connection of the second front speakers. 11.1ch + Front B must be set in Amp Assign to adjust the Front B setting.

Settings selects the signal to be output from the selected PRE OUT connector. Only Center and None can be set for the CENTER PRE OUT connector. If seven or more height/ceiling/Dolby Atmos Enabled speakers are being used, only Top Middle, Surround Dolby, or None can be set for HEIGHT 3 PRE OUT connectors. HEIGHT 4 / FRONT WIDE PRE OUT connectors may be used with front wide speakers or if seven or more height / ceiling / Dolby Atmos Enabled speakers are used. HEIGHT 4 / FRONT WIDE PRE OUT connectors may only be set to Front Wide, Top Surround, Center Height, TS/CH, or No. To set Top Surround, Center Height, or TS/CH, Top Middle, Surround Dolby, or Surround height must be set on the HEIGHT 3 PRE OUT connector.

View Terminal Config. shows how to connect PRE OUT connectors for the Amp Assign setting.

• Distances

Distances allows the user to set the measured distance between the listening position to each speaker. When using Dirac Live the unit is fixed as msec.

Unit establishes the unit of measurement for the distance. Units can be changed between Feet and Meters.

Step sets the minimum variable width of distance. By default, the minimum is 1 ft, but can be changed anywhere between 1 ft and 0.1 ft (0.1 m / 0.01 m, 1 ms / 0.1 ms when using Dirac Live.)

Set the Distance establishes the distance between the listener and the speakers, ranging from 0.0 ft to 59.1 ft (0.00 m - 18.00 m, 0.0 ms - 50.0 ms when using Dirac Live.) By default, Front L / Front R / Front Height L / Front Height R / Center / Front Wide L / Front Wide R / Front Dolby L / Front Dolby R / Subwoofer 1 / Subwoofer 2 / Subwoofer 3 / Subwoofer 4 are set to 11.8 ft (3.60 m). Any other speakers are set to 9.8 ft (3.00 m).

Dolby Speaker Setup sets the distance between the Dolby Atmos Enabled speaker and the ceiling between 3.0 ft - 10.8 ft (0.90 m - 3.30 m). This setting can be set when Front Dolby, Surround Dolby, or Back Dolby is set in Speaker Layout, but cannot be used when Dirac Live is in use.

Set Defaults returns all Distance settings to their default state.

• Levels

Levels sets the volume of the test tone to be the same at the listening position when it is output from each speaker. Each Level is stored independently in Dirac Live Room Correction.

Test Tone Start adjusts the test tone volume from -12 dB - +12.0 dB. By default the volume is set to 0.0 dB. To adjust the channel levels for each input, set these in the Channel Level Adjust Options menu.

Set Defaults returns all settings in Levels to their default state.

• Crossovers

Crossovers set with the lower limit frequency of the base frequencies that can be played through each speaker. Check the speaker specifications for frequency information.

Set the Crossover Frequency establishes the crossover point for low frequency sounds, with a default frequency is 80 Hz due to its ability to work with a wide range of speakers. Full Range may be selected for the speaker to play the full range of audio, but it is possible to set a crossover point for the subwoofer to take over low tones ranging from 40 Hz to 250 Hz. Higher frequencies are recommended for smaller speakers.

• Speaker Preset

Speaker Presets may be saved to suit environments in which speakers are being used. The settings saved to each preset are Speaker Layout, Distances, Levels, Crossovers, Subwoofer Output, Low Pass Filter, Distribution, 2ch Playback, Front Speaker settings as well as MultEQ XT32, Dirac Live, and Graphic EQ data.

• Advanced

Advanced speaker settings include Low Frequency Effects, Front Speaker, 2ch Playback, and Tactile Transducer.

• Subwoofer Output

Subwoofer Output selects which low frequency signals are sent to the subwoofer outputs.

Subwoofer Output determines what information the subwoofers receive. By default, LFE is selected, allowing the subwoofer to receive the Low Frequency Effects track, and any redirected bass from speakers using Crossover. This setting can be changed to LFE + Main, allowing the subwoofer to receive the LFE track, redirected bass, and a copy of low frequency signals from all full range speakers.

Bass Extration LPF selects the low-pass filter point for the full-range speaker to copy the low frequency signal to the subwoofer. The default is 80Hz, but can range from 40 Hz to 250 Hz.

• Low Pass Filter

Low Pass Filter sets the crossover point for the LFE channel when changing the playback of the LFE signal to the subwoofer. By default, this setting is set to 120 Hz, but can range from 70 Hz to 250 Hz.

• Distribution

Distribution adjusts the amount of LFE signal sent to the full-range floor speakers.

Front/Center/Surround/Surround Back/Front Wide plays LFE signals through floor speakers. By default, the floor speakers do not play LFE signals, but this can be changed so they play signals ranging from -20 dB to 0 dB.

• Front Speaker

Front Speaker sets which front speaker to use for every sound mode. By default, front speaker A is used, but this may be changed so only front speaker B is used, or so A+B speakers are used.

• 2ch Playback

2ch Playback selects the method for setting the speakers used in the 2-channel direct and stereo playback modes.

Setting selects the method for setting the speakers used in 2-channel setups. By default, this setting is set to Auto so settings in Speakers are applied, but this may be set to Manual so speakers can be set differently for 2-channel playback.

Crossover sets the maximum frequency of the bass signal from each channel to the subwoofer. The default Crossover frequency is 80 Hz due to the frequency working with a wide variety of speakers. Full Range may be selected for the speaker to play the full range of audio, but it is possible to set a crossover point for the subwoofer to take over low tones ranging from 40 Hz to 250 Hz. Higher frequencies are recommended for smaller speakers.

Subwoofer establishes the presence of a subwoofer. By default, a subwoofer is used, but this setting may be set to No when no subwoofer is connected.

Subwoofer Output selects the low frequency signals sent to the subwoofer. By default, LFE is selected so when 2ch Playback Crossover is set to Full Range, only LFE signals are output from the subwoofer. This may be changed to LFE + Main so front channel low range signal is added to the LFE signal output from the subwoofer.

Bass Extration LPF selects the low-pass filter point for the full-range speakers to copy the low frequency signal to a subwoofer. By default, this frequency is 80 Hz, but can be changed from 40 Hz to 250 Hz.

LFE Distrubution adjusts the amount of LFE signal sent to the full range front speakers. By default, this setting is Off, but may be changed from -20 dB to 0 dB.

Distance FL/Distance FR sets the distance from the main listening position to the speakers. By default, this setting is set at 11.8 ft, but may be changed from a range of 0.0 ft to 59.1 ft (0.00 m - 18.0 m, 0.0 ms - 50.0 ms when using Dirac Live).

Level FL/Level FR sets the level of each channel ranging from -12.0 dB to +12.0 dB, the default being 0.0 dB

• Tactile Transducer

Tactile Transducer sets the level and low pass filter cutoff frequency when using tactile transducers. For Tactile Transducer connections, use the Subwoofer 4 PRE OUT connector. This cannot be set when Subwoofers are set to 4 spkrs in Speaker Layout.

Tactile Transducer Enables and Disables the tactile transducer, and is Disabled by default

Level adjusts the volume of the tactile transducer output. By default, the Level is set to 0.0 dB, but may be changed from -12.0 dB to +12.0 dB.

Low Pass Filter selects the low pass filter cutoff frequency for the tactile transducer output. By default, this is set to 80 Hz, but may be changed from a range of 40 Hz to 250 Hz.

• Dirac Live Setup

The MX124 includes the licensing for Dirac Live Room Correction and Bass Control, the leading digital room correction solution used in home theaters. Room Correction includes state-of-the-art algorithms that analyze and digitally reduce room impact, and enhance speaker performance. Dirac Live Bass Control technology manages low-frequency channel routing from the signal to a systems speakers. Systems with multiple subwoofers will see substantially improved performance.

Equipment

The equipment needed to set up Dirac Live include a computer with the Dirac software installed, and the provided microphone and stand. The Audyssey microphone is not compatible with Dirac Live setup.

Configuring MX124 Settings

Before attempting to configure the speaker setup, ensure that the MX124, and a computer with Dirac Live are connected to the same network. If measurement has taken place before, select the speaker preset to use, keeping in mind that only two can be set at a time. When performing calibration for the first time, measurements will automatically be stored in Speaker Preset 2. In Speaker Layout, set the layout of speakers being measured.

Please review the Dirac Live user manual setup and operation before beginning calibration. Information regarding the user manual and other tips may be found at <https://www.dirac.com/live/downloads>

Measurement

After setting up the Dirac Live software on a computer, log into a Dirac account. Select the MX124 in the Dirac menu, rescanning if the unit fails to initially appear on the screen.

Connect the provided Dirac microphone to the USB input on the back of the MX124. A microphone correction file will be sent from the unit to the Dirac app on the PC in use. If the provided Dirac microphone is connected directly to the PC, select No Microphone Calibration in the Dirac Live software to load the correction file

Download the microphone correction file from www.mcintoshlabs.com/products/home-theater-processors/MX124.

For proper measurements, adjust the output of all speakers to a suitable level. To begin volume calibration, place the provided stand at the main listening position and attach the microphone, pointing it toward the ceiling. Ensure the microphone is set at the same height as listeners ears in the main listening position.

In the Measurement Levels menu, set the microphone gain to 100% and the Master Output somewhere around -55.0 dB. Select one speaker and press play, adjusting the Master Output so the audio detected from the speaker is between -15.0 dB and -30.0 dB. Repeat for all speakers before selecting Proceed to Select Sweet Spot. In Select Sweet Spot, set the measurement type based on where the main listening position is in the room and how it will be utilized.

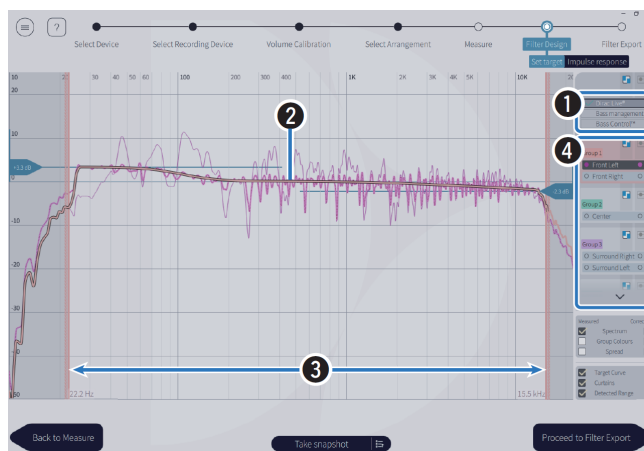
Keeping the microphone in the main listening position, select the circle in the center of the illustration on the screen. Click Measure Selected Position for a tone to play through each speaker. When the measurement is finished, move the microphone to the next position and repeat, selecting a new position each time. When each measurement is finished, click Proceed to Filter Design.

Filter Design

Adjust the filters in Dirac Live Room Correction, Bass Management, or Bass Control. Up to three filters can be created with Dirac.

Room Correction:

1. **Filter Options** selects Dirac Live if using Room Correction. Filters are calculated after being selected, and may take some time to be displayed.
2. **Target Curve** decides the frequency characteristics of the speakers in a system, adjusting the target curve.
3. **Curtains** slides on the screen adjust the frequency range the filter is applied across.
4. **Speaker Selection** selects the speaker(s) to edit the target curve of.



Bass Management and Bass Control

1. **Filter Options** selects Bass Management or Bass Control as the filter design. Filters are calculated after being selected, and may take some time to be displayed.
2. **Target Curve** decides the frequency characteristics of the speakers in a system, adjusting the target curve.
3. **Curtains** slides on the screen adjust the frequency range the filter is applied across.
4. **Speaker Selection** selects the speaker(s) to edit the target curve of.
5. **Crossover Points** adjusts the crossover frequency of the selected group of speakers. **A** defines which frequencies are assigned to output mostly through subwoofers. **B** allows both subwoofers, and high-range speakers to receive selected frequencies. **C** defines the frequencies assigned to high-range speakers.
6. **Calculate** calculates the filter to ensure bass accuracy for Bass Control.

Export a filter to the MX124 by selecting the slot of the desired filter. Enter a name for the filter, and press Export.



Troubleshooting

Dirac Live does not measure crossover frequencies. Target curves may not be adjusted offline. If an error message is shown, ensure the Dirac Live software is up to date.

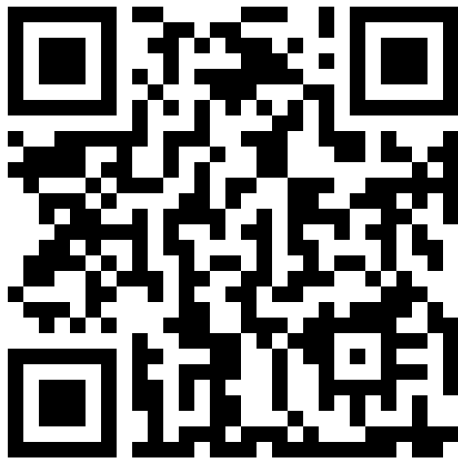
Ensure that the computer being used for calibration, and the MX124 are connected to the same network. If the computer does not detect the MX124, restart the Dirac Live software or the MX124. If this does not work, Dirac Live may not be compatible with the router being used. Use a different router, or check its settings.

If Dirac Live senses that the speaker configuration is different from that of the stored configuration, Device Data Inconsistent or Unsupported will pop up. If the current configuration is ideal, reconfigure the Dirac Live measurements.

Certain speaker settings may not be configured when using Dirac Live Bass Control.

A Dirac Live account is necessary to use the room correction software, make an account on the website:

<https://www.dirac.com/brands/mcintosh>



Network Setup Submenu

To use the MX124 by connecting it to a home network (LAN), configure the network settings. If setting up the home network via DHCP, set DHCP to on. When assigning an IP address to each device manually, assign an IP address to the MX124 using the IP Address settings, and enter the information of the home network.

• Information

Information displays network information, including Friendly Name, Connection, SSID, DHCP, IP Address, MAC Address (Ethernet), MAC Address (Wi-Fi), and Wi-Fi signal strength.

• Connection

Connection chooses whether to connect the home network to a wireless LAN or a wired LAN. When using a wired LAN, select Wired (Ethernet) after connecting a cable. By default, this setting is set to Wireless (Wi-Fi) and connects to the network wirelessly.

• Wi-Fi Setup

Scan Networks displays the local network. Selects the network being used, enter the password, and select OK. Select Rescan if the network cannot be found.

Use iOS Device connects to a network using an iOS device. By connecting a device to the MX124, the unit will automatically connect to the network used by the iOS device. Select Use iOS Device on the TV screen, making sure the iOS device is connected to the wireless LAN, then press Next.

WPS Router uses a WPS compatible router to connect using the push button method. Select Push Button on the TV screen, switch to WPS mode on the router before pressing Connect on the TV screen.

Manual: Enters the name (SSID) and password of the ideal network before setting the name of the SSID. When setting the Security, select the encryption method according to the encryption setting of the access point in use. Enter the password, then press Connect once finished entering all of the required information.

• Settings

Settings configures the IP Address using the available connection settings.

DHCP configures the network settings automatically to the router. By default, DHCP is On.

IP Address sets the IP Address within the available ranges.

CLASS A includes 10.0.0.1 - 10.255.255.254

CLASS B includes 172.16.0.1 - 172.31.255.254

CLASS C includes 192.168.0.1 - 192.168.255.254

Subnet Mask is for connecting an xDSL modem, or connector adaptor directly to the MX124, input the subnet mask indicated in the documentation supplied by the users provider. Normally, input 255.255.255.0

Default Gateway inputs the gateway IP Address when connected.

DNS enters the DNS address indicated in the documentation supplied by the users provider.

• Network Control

Network Control enables network communication in Standby Power mode. By default, this setting is Always On (Off in Standby in Europe) and the main unit remains operable with a network compatible controller.

• **Friendly Name**

The Friendly Name is the name of the MX124 displayed on the network. The default name upon first use is McIntosh MX124, but may be changed to Home Theater, Living Room, Family Room, Guest Room, Kitchen, Dining Room, Master Bedroom, Bedroom, Den, Office, or a personalized name of up to 30 characters. Set Defaults may be selected, restoring the default setting for Friendly Name.

• **Diagnostics**

Diagnostics checks the network connection.

Physical Connection checks the physical LAN port connection. If the LAN cable is not connected an Error will be shown, but if the LAN is in tact it will display OK.

Router Access checks the connection from the MX124 to the router. If the unit fails to communicate with the router an Error will be shown, if communication is in tact OK will be displayed/

Internet Access checks whether the MX124 has access to the internet (WAN). If the MX124 fails to connect to the internet, Error will be displayed. If connection is in tact OK will be displayed.

• **AirPlay**

AirPlay selects settings for Apple AirPlay. To use the AirPlay function, ensure the Apple product being used is connected to the same network as the MX124. Once playing a song on the Apple device, select the AirPlay icon, and subsequently the desired device/speakers.

AirPlay Name displays the name of the MX124 on Apple devices.

AirPlay turns Apple AirPlay On and Off.

• **Spotify Connect**

Toggles access to Spotify Connect. By default, access for Spotify Connect is On.

• **Roon Ready**

Toggles access to Roon Ready. By default access for Roon Ready is On.

• **TIDAL Connect**

Toggles access to TIDAL Connect. By default access for TIDAL Connect is On.

• **Qobuz Connect**

Toggles access to Qobuz Connect. By default access for Qobuz Connect is On.

• **Wi-Fi and Bluetooth**

Enables and Disables the Wi-Fi and Bluetooth radios.

Wi-Fi Enables and Disables Wi-Fi function to prevent noise that affects the sound quality. Using a wired LAN to connect the MX124 to the network enables playback with a high sound quality. By default, Wi-Fi is Enabled.

Bluetooth Disables Bluetooth functions to reduce negative effects to sound quality. By default, Bluetooth is Enabled.

General Setup Submenu

• **Language**

Language sets the language of the display menu on the TV. Change the language in the General Setup menu from English to Spanish, or French. In Europe, the language may be set to English / Deutsch / Français / Italiano / Español / Nederlands / Svenska / Русский / Polski, with English as the default.

• **Bluetooth Transmitter**

Bluetooth Transmitter can be set to allow the MX124 to connect to multiple types of devices.

Transmitter Enables or Disables the Bluetooth transmitter, and is Disabled by default.

Output Mode selects the output method. By default, audio is output to Bluetooth headphones and main zone speakers, but this setting may be changed to Bluetooth Only.

Connected Devices displays the Bluetooth device connected to the MX124.

Device List displays available Bluetooth devices when pairing mode is activated. Eight Bluetooth headphones can be registered, though only one can be in use at a time. To remove a saved Bluetooth device from the device list, select Forget Device.

• **ZONE2 Setup / ZONE3 Setup**

ZONE2 Setup / ZONE 3 Setup adjusts settings for audio playback with ZONE2 and ZONE3

Bass adjusts the bass between -10 dB - +10 dB.

Treble adjusts the treble between -10 dB - +10 dB.

High Pass Filter sets the cut off point of low ranges to reduce distortion in bass. By default, the bass is not attenuated.

L Ch Level adjusts the left channel output between -12 dB - +12 dB

R Ch Level adjusts the right channel output between -12 dB - +12 dB

Channel resets whether playback is in Stereo or Monaural. By default, Stereo playback is set.

HDMI Audio (ZONE 2 only) selects the audio signal format for playing an HDMI source in ZONE2. By default, the HDMI audio signal passes through the MX124 into the connected device in ZONE 2, but may be changed to PCM so the audio signal is converted to a PCM signal that can be output from the ZONE2 PRE OUT connectors.

Volume Level sets the volume output level. By default, this setting is Variable so the volume may be adjusted, but it may be set to a fixed level.

Volume Limit sets the maximum volume from 60 to 80, and the default is 70.

Power On Limit sets the volume level when the MX124 is turned on. By default, the unit will maintain the volume level it was last set at, but it may be set to turn on with Mute on, or to a specific volume level from 1 to 98.

Mute Level sets the amount of attenuation when mute is on. By default, Full mute is set, but this may be changed so the mute level is -40 dB or -20 dB lower than the current volume.

• Zone Rename

Zone Rename sets the display title for each zone, or reset the names to their defaults.

• Quick Select

Name sets the name of the Quick Select input.

Input Source/Master Volume/Sound Mode/Channel Level/Audyssey Parameters/ DFR/ Dialogue Enhancer/HDMI Video Output/ Playback Content/Speaker Preset/All Zone Stereo/TV Audio Sharing/Dirac Live registers current settings with Quick Select, and can be Disabled so the current settings are not registered when Quick Select is registered.

• Trigger Out 1/Trigger Out 2

Trigger Out 1 and Trigger Out 2 set the conditions for activating trigger out. When a mode is On in this setting, trigger will activate in the selected mode.

• Auto Standby

Auto Standby sets how long it takes for the MX124 to go into Standby when the unit is not being used.

MAIN ZONE establishes when the MX124 will go into Standby. By default, the MX124 will not go into Standby automatically (15 min in Europe), but this can be changed so it goes to Standby after 15, 30, or 60 minutes of dormancy.

ZONE2/ZONE3 establishes when the MX124 will shut off after lack of use. By default, the MX124 does not automatically switch off, but it may be set to turn itself off after 2, 4, or 8 hours.

• Front Display

Brightness adjusts the brightness of the front panel display between Bright, Dim, Dark, and Off.

Channel Indicator sets whether the Input signal display, or Output signal display is used for the channel indication on the display. By default, the Output signal display is used.

• Firmware

Check for Update checks for firmware updates, and allows the user to chose to Update Now or Update later.

Auto-Update turns on automatic updates so the MX124 will automatically install the most recent firmware version while in Standby mode.

Allow Update Enables and disables updates for the MX124.

• Information

Audio shows the audio information for MAIN ZONE. Sound Mode shows the currently set sound mode, Input Signal shows the input signal type, Format shows the number of input signal channels, Sample Rate shows the input signals sampling frequency. Offset shows the dialogue normalization correction value, Flag is displayed when inputting signals including a surround back channel.

Video shows the HDMI signal information.

Zone shows information about current settings for MAIN ZONE, ZONE 2, and ZONE 3.

Firmware displays firmware information and the current DTS version.

Notification displays and sets notifications, including whether or not notifications display when the power is turned on.

Save and Load saves and restores device settings by using a USB memory device. Save Configuration stores the current settings of the MX124 to the USB memory device, this may take up to ten minutes. Load Configuration restores settings saved to an USB memory device.

• Setup Lock

Setup Lock protects settings from inadvertent changes. By default, protection is turned off.

• Reset

Reset reverts settings to their default factory settings. This can be done to All Settings, or just Network Settings.

Audio Specifications

Unless otherwise noted, the below MX124 Specifications were taken with Audyssey® and Dirac® bypassed.

Frequency Response

±0.5 dB from 20 Hz - 20 kHz

Subwoofer:

±0.5 dB from 20 Hz - 8 kHz

Total Harmonic Distortion

0.005% maximum from 20 Hz to 20 kHz at rated Output

Signal To Noise Ratio

Phono: 86 dB below 10 mV Input (A Weighted)

High Level: 96 dB below rated Output (A Weighted)

Rated Output Voltage

Unbalanced: 2.5 V

Balanced: 5.0 V

Maximum Voltage Output

Unbalanced: 6 V

Balanced: 12 V

Output Impedance

220 ohms

Input Impedance

Phono: 47k ohms, 65 pf

High Level: 20k ohms Unbalanced and Balanced

Sensitivity for Rated Output

Phono: 4.5 mV

High Level: 450 mV Unbalanced

900 mV Balanced

Maximum Input Signal

Phono: 50 mV

High Level: 4.5 V Unbalanced and Balanced

Video Specifications

Signal System

NTSC/PAL

HDMI (Inputs and Outputs)

7 inputs, Zone 1 has two 8K outputs, Zone 2 has one 4k output, HDR, Dynamic HDR, HDR 10+, HLG, Dolby Vision, eARC, Dynamic Lip-sync, 4:4:4 Color, REC. 2020, 3D Video pass-through

HDMI/Coaxial/Optical Digital Input Rate

32k Hz to 192k Hz, 24-Bit, Dolby Digital, DTS, PCM

Video Resolution

8K/60 Hz

4K/120 Hz

Fixed Rate Link (FRL)

40 Gbps

18 Gbps TMDS

HDCP

Version 2.3

Gaming

Variable Refresh Rate (VRR)

Quick Frame Transport (QFT)

Auto Low Latency Mode (ALLM)

Scaling

Digital Video Inputs scaled to a 8K Digital Signal

Component Video Input Level

Y Output Level 1.0Vp-p (75 ohms)

PB/CB Output Level 0.7Vp-p (75 ohms)

PR/CR Output Level 0.7Vp-p (75 ohms)

Composite Video Input Level

1Vp-p (75 ohms)

General Specifications

Bluetooth Communication System

Version 5.4, A2DP, SBC, 2.4G Hz

Wireless LAN

Network type: Conforming to IEEE 802.11a/b/g/n/ac

Security: WEP 64 bit, WEP 128 bit,
WPA/WPA2-PSK (AES),
WPA/WPA2-PSK (TKIP),
WPA3-SAE (AES)

Used frequency range: 2.4 GHz, 5 GHz

Power Requirements

Field AC Voltage conversion of the MX124 is not possible. The MX124 is factory configured for one of the following AC Voltages:

100 Volts, 50/60 Hz at 75 watts

110 Volts, 50/60 Hz at 75 watts

120 Volts, 50/60 Hz at 75 watts

220 Volts, 50/60 Hz at 75 watts

230 Volts, 50/60 Hz at 75 watts

240 Volts, 50/60 Hz at 75 watts

Standby, less than 0.5 watt

Note: Refer to the rear panel of the MX124 for the correct voltage.

Overall Dimensions

Width: 17 ½ inches / 44.5 cm

Height: 7 ¾ inches / 19.7 cm (including feet)

Depth: 17 inches / 43.2 cm (including the front panel, knobs, rear panel connections, and Wi-Fi antennas.

Weight

Net: 29 pounds / 13.2 kg

In shipping carton: 53 pounds / 24 kg

Shipping Carton Dimensions

Width: 25 inches / 63.5 cm

Depth: 28 inches / 71.1 cm

Height: 18 ⅜ inches / 46.7 cm

Packing Instructions

In the event it is necessary to repack the equipment for shipment, the equipment must be packed exactly as shown below. **It is very important that the four plastic feet are attached to the bottom of the equipment. This will ensure the proper equipment location on the bottom pad. Failure to do this will result in shipping damage.**

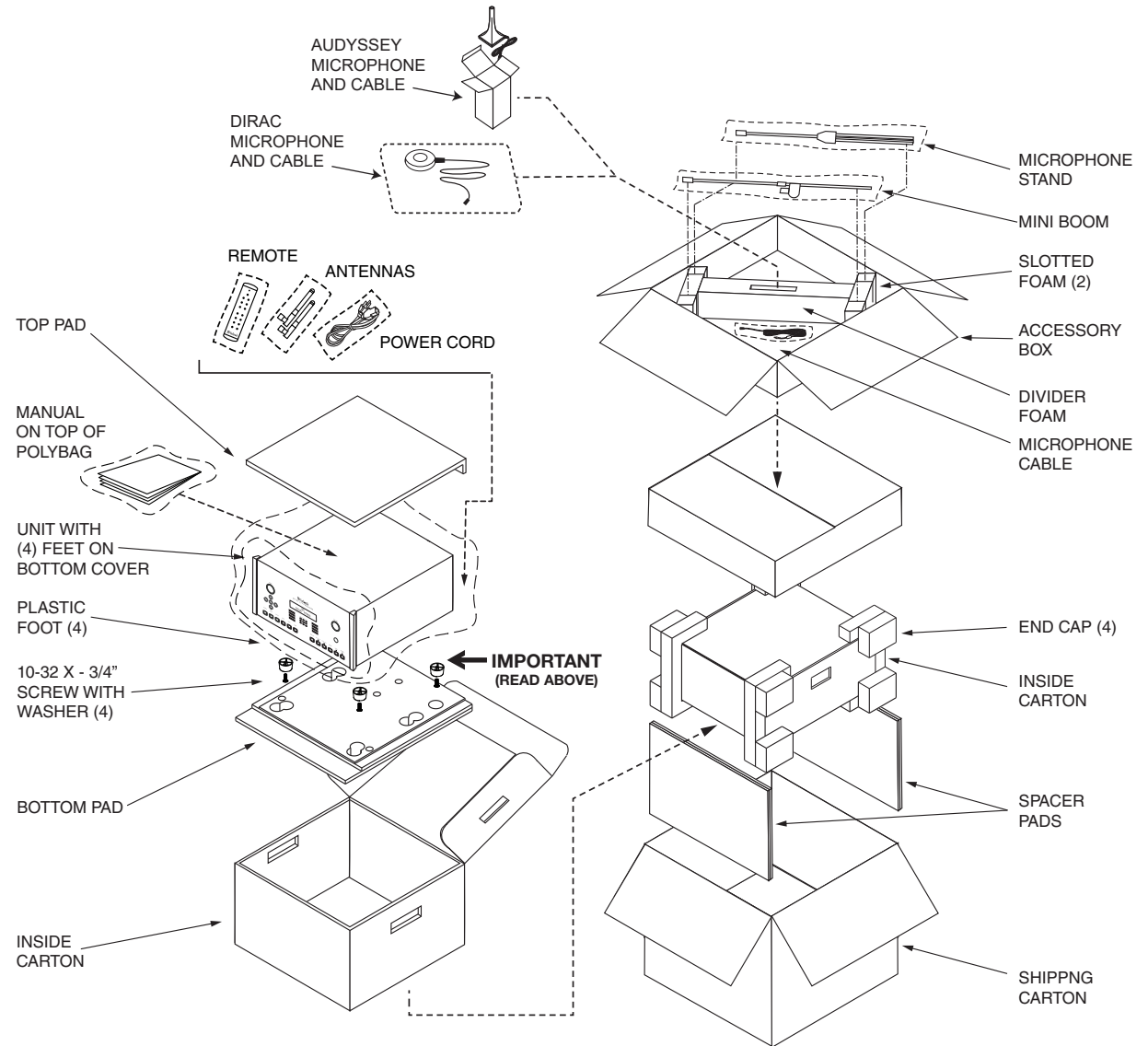
Parts List

Quantity	Part Number	Description
1	034256	Shipping carton only
4	034670	End cap foam
2	034493	Spacer pad
1	753101	Manual Package
1	033697	Inside carton only
1	033725	Inner carton top pad
1	034576	Bottom pad
4	017937	Plastic foot
4	400159	#10-32 x 3/4" screw
4	404080	#10 Flat washer
1	034499	Accessory Box
2	034500	Slotted foam
1	034501	Divider foam
1	HR095	Remote
1	Note 1	Power Cord
2	Note 2	Antenna
1	320967	Dirac Microphone
1	320415	Audyssey Microphone

Note¹: AC power cords are country specific

Note²: Contact customer service

Use the original shipping carton and interior parts only if they are all in good serviceable condition. If a shipping carton or any of the interior part(s) are needed, please call or write Customer Service Department of McIntosh Laboratory. *Refer to page 3.*



McIntosh®

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Binghamton, NY 13903
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The MX124 is designed to employ non-McIntosh provided services some of which require separate customer subscriptions and some of which do not, as part of the Product's functionality. Because McIntosh cannot control the providers of such services or the services themselves, the owner of the Product therefore assumes all risks related to the use of services provided by anyone other than McIntosh itself. McIntosh cannot and does not warrant against, and shall have no liability of any kind for any of the following that are attributable to non- McIntosh providers or services: (i) interruption, discontinuance, or other unsatisfactory performance of service; (ii) reduced Product functionality that is so attributable; or (iii) any other loss or damage of any kind that is so attributable.

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