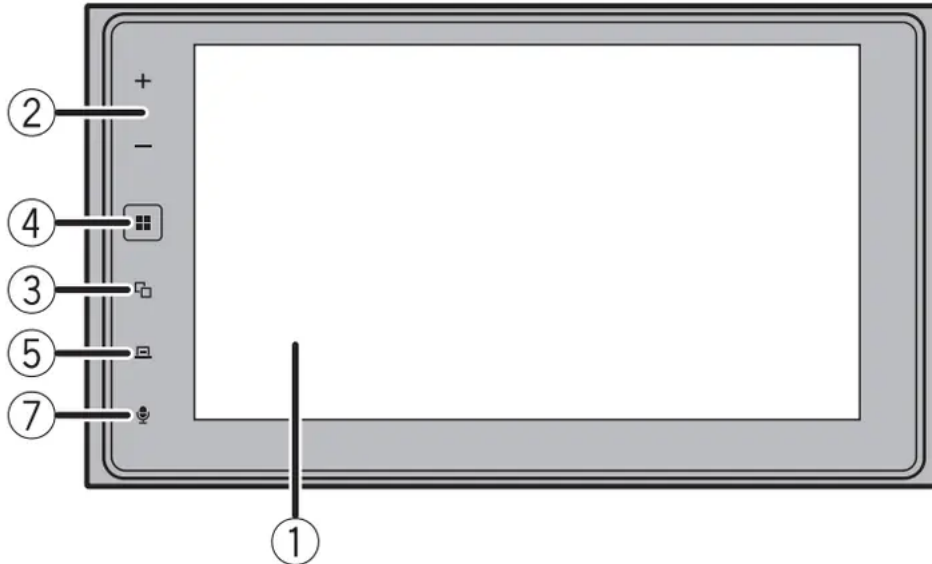







PARTS AND CONTROLS

Main unit

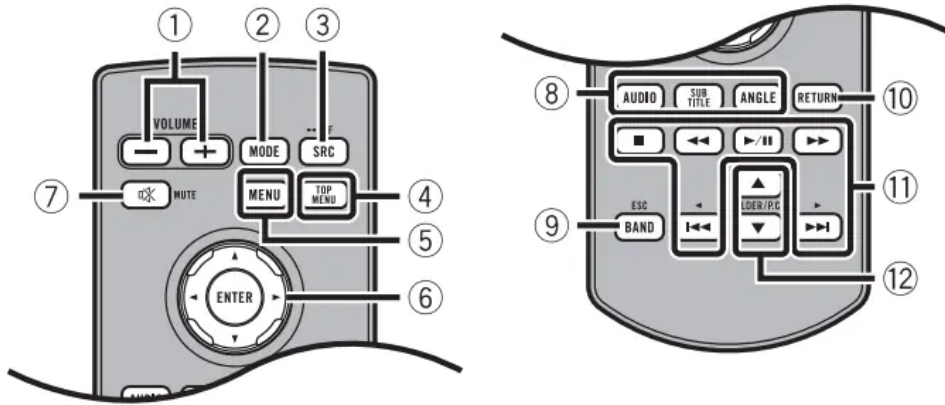


NOTE

For MVH-2400NEX/MVH-2300NEX, press buttons on the main unit, and for MVH-1400NEX, touch buttons on the main unit.

①	LCD screen	
②	VOL (+/-)	
③		Press (touch) to switch between the Application screen and the AV operation screen. For MVH-2400NEX/MVH-2300NEX, press and hold to switch to the camera view mode, and for MVH-1400NEX, touch and hold to turn off the display. NOTE To activate the camera view mode with this button, set [Back Camera Input] to [On] (page 79).
④		Press (touch) to display the top menu screen. Press (touch) and hold to power off. To power back on, press (touch) any button.
⑤		Press (touch) to display the menu bar (page 17). Press (touch) and hold to mute or unmute.
⑥		Press to display the top menu screen or back to previous screen. Press and hold to turn off the display.
⑦		Press to activate the voice recognition mode such as Siri® when the iPhone is connected to the unit via Bluetooth or USB.
⑧	RESET	Press to reset the microprocessor (page 14).

Remote Control



①	VOLUME (+/-)	
②	MODE	Press to switch between the Application screen and the AV operation screen. Press and hold to switch to the camera view mode. NOTE To activate the camera view mode with this button, set [Back Camera Input] to [On] (page 79).
③	SRC	Press to cycle through all the available sources. Press and hold to turn the source off.
④	TOP MENU	Not used.
⑤	MENU	Not used.
⑥	Thumb pad	Not used.
⑦	MUTE	

⑧	AUDIO SUBTITLE ANGLE	Not used.
⑨	BAND/ESC	Press to select the tuner band when tuner is selected as a source. Press to cancel the control mode of functions.
⑩	RETURN	Press to return to the specified point and start playback from there.
⑪	▶/	Press to pause or resume playback.
	◀◀ or ▶▶	For audio: Press and hold to perform fast reverse or fast forward. For video: Press to perform fast reverse or fast forward.
	◀◀ or ▶▶	Press to return to the previous track (chapter) or go to the next track (chapter). Press to answer or end a call.
	■	Press to stop playback. If you resume playback, playback will start from the point where you stopped. Press the button again to stop playback completely.
⑫	FOLDER/P.CH	Press to select the next or previous title or folder. Press to recall radio station frequencies assigned to preset channel keys. Press to answer or end a call.

Basic operation

Resetting the microprocessor



CAUTION

- Pressing the RESET button resets settings and recorded contents to the factory settings.
 - Do not perform this operation when a device is connected to this product.
 - Some of the settings and recorded contents will not be reset.
- The microprocessor must be reset under the following conditions:
 - Prior to using this product for the first time after installation.
 - If this product fails to operate properly.
 - If there appears to be problems with the operation of the system.

1 Turn the ignition switch OFF.

2 Press RESET with a pen tip or other pointed tools.

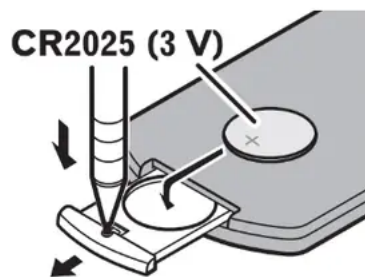
Settings and recorded contents are reset to the factory settings.

Preparing the remote control

Remove the insulation sheet before use.



How to replace the battery



Insert the CR2025 (3 V) battery with the plus (+) and minus (-) poles orientated properly.



WARNING

- Do not ingest the battery, Chemical Burn Hazard.
(The remote control supplied with) This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.



CAUTION

- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.
- If the battery leaks, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institutions' rules that apply in your country/area.
- "Perchlorate Material – special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate. (Applicable to California, U.S.A.)"

Using the remote control

Point the remote control in the direction of the front panel to operate.

NOTE

The remote control may not function properly in direct sunlight.



Important

- Do not store the remote control in high temperatures or direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or gas pedal.

Starting up the unit

1 Start the engine to boot up the system.

The [Select Program Language] screen appears.

NOTE

From the second time on, the screen shown will differ depending on the previous conditions.

2 Touch the language.

3 Touch .

The [Speaker Mode Settings] screen appears.

4 Touch the speaker modes.

[Standard Mode]

4-speaker system with front and rear speakers, or a 6-speaker system with front and rear speakers and subwoofers.

[Network Mode]

3-way system with a high range speaker, middle range speaker and subwoofer (low range speaker) for reproduction of high, middle and low frequencies (bands).



WARNING

Do not use the unit in standard mode when a speaker system for 3-way network mode is connected to the unit. This may cause damage to the speakers.

5 Touch [OK].

Initial Legal Disclaimer screen appears.

6 Touch [OK].

The top menu screen appears.

NOTE

Once the speaker mode is set, the setting cannot be changed unless this product is restored to the default settings. Restore the default settings to change the speaker mode setting (page 95).

Switching the speaker mode

To change the speaker mode, you need to restore this product to the default settings.

1 Restore the default setting (page 95).

Using the touch panel

You can operate this product by touching the keys on the screen directly with your fingers.

NOTE

To protect the LCD screen from damage, be sure to touch the screen only with your finger gently.

Common touch panel keys

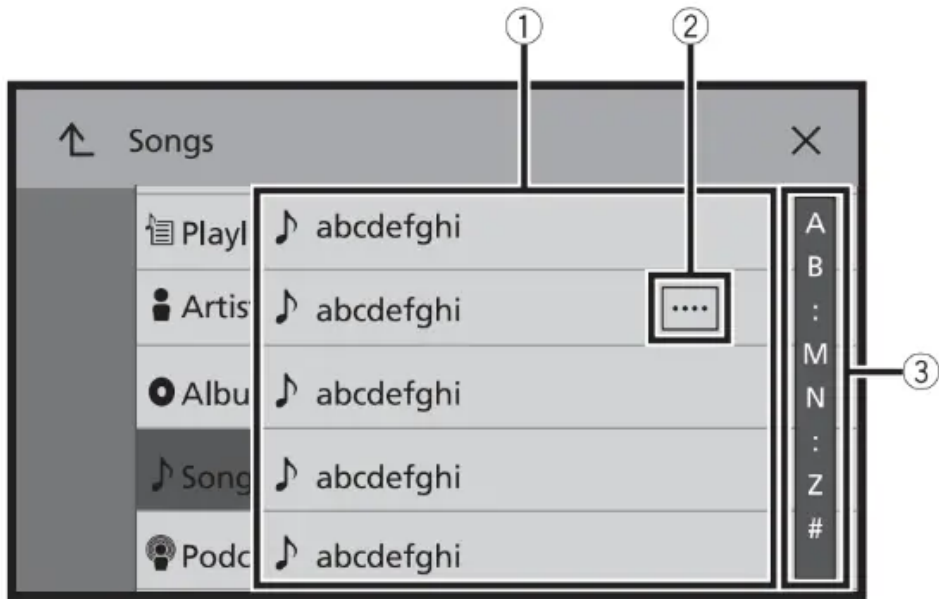


Returns to the previous screen.



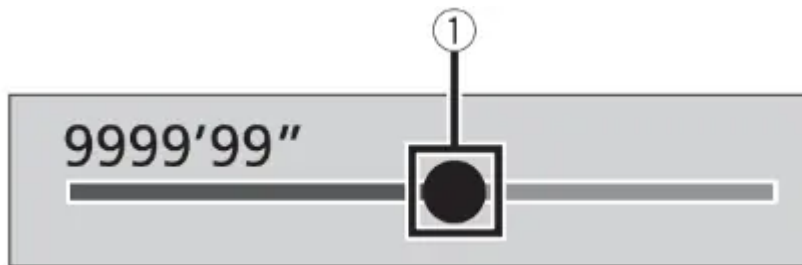
Close the screen.

Operating list screens




1	Touching an item on the list allows you to narrow down the options and proceed to the next operation.
2	<p>Appears when all characters are not displayed on the display area. If you touch the key, the rests are scrolled for display.</p> <p>NOTE This function is available only when you stop your vehicle in a safe place and apply the parking brake.</p>
3	Appears when items cannot be displayed on a single page. Drag the side bar, the initial search bar or the list to view any hidden items.

Operating the time bar



1	<p>You can change the playback point by dragging the key. The playback time corresponding to the position of the key is displayed while dragging the key.</p>
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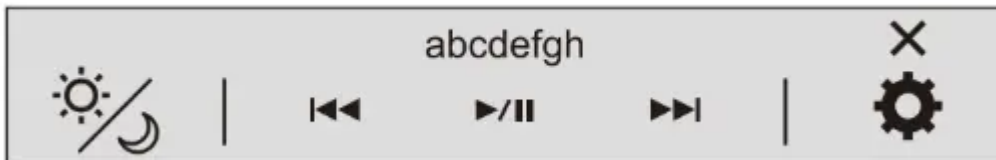
Operating the menu bar








1 Press (touch) .

The menu bar pops up on the screen.

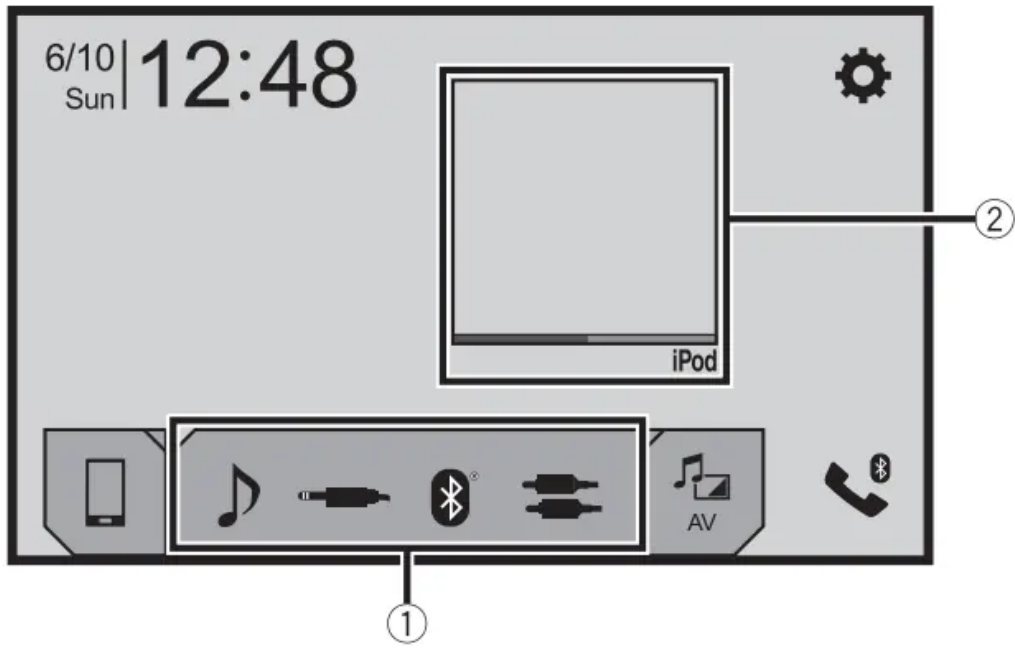
NOTE




The menu bar availability may vary depending on the activating source.



	<p>Switches the dimmer duration by day or night.</p> <p>NOTE When AppRadio Mode + is on, AppRadio Mode + SideControlBar is displayed.</p>
	<p>Switches between playback and pause.</p>
	<p> Skips files forward or backward.</p>
	<p> Performs fast reverse or fast forward.</p>
	<p>Displays setting menu screen (page 78).</p>
	<p>Closes the menu bar.</p>

Operating the menu bar



1	<p>Favorite source icons</p> <p>TIPS</p> <ul style="list-style-type: none"> • When you connect the external navigation system to this unit, the navigation mode key is displayed at the middle of the right side of the display. • If you select [Power OFF], you can turn off almost all functions. <ul style="list-style-type: none"> – An incoming call is received (only for hands-free phoning via Bluetooth). – A rear view camera image is input when the vehicle is in reverse. – A button on this unit is pressed (touched). – The ignition switch is turned off (ACC OFF), then turned on (ACC ON).
2	<p>AV operation key</p> <p>Displays the current source.</p> <p>TIP</p> <p>When the last source is displayed behind the key, you can switch the source by touching the key.</p>
	<p>Setting the time and date</p>
	<p>Settings (page 78) and Favorite menu (page 93)</p>
	<p>Connected device key</p> <p>Displays connected device.</p> <p>Switches the source or application with connected devices such as AppRadio Mode +, external navigation system, etc.</p> <p>TIP</p> <p>When a device with a compatible application is connected, the favorite application key appears. Once the key appears, you can adjust the range of the favorite application key area with the following steps.</p> <p>1 Touch and hold .</p> <p> appears at the top right of the favorite application key.</p> <p>2 Drag  to the desired position.</p> <p>To finish the adjusting, touch any place of the display except for the</p>

	favorite application key. NOTE This function is available only when you stop your vehicle in a safe place and apply the parking brake.
	AV source
	Hands-free phoning

Troubleshooting

If you have problems operating this product, refer to this section. The most common problems are listed below, along with likely causes and solutions. If a solution to your problem cannot be found here, contact your dealer or the nearest authorized Pioneer service facility.

Common problems

A black screen is displayed, and operation is not possible using the touch panel keys.

- [Power OFF] mode is on.
- Press (touch) any button on this product to release the mode.
- [Back Camera Input] is set to [On] in [Camera settings] without connecting the rear view camera.

– MVH-2400NEX/MVH-2300NEX:

Press the RESET button.

– MVH-1400NEX:

Disconnect the (-) battery cable then reconnect it, or remove this product then reinstall it.

Problems with the AV screen

The screen is covered by a caution message and the video cannot be shown.

- The parking brake lead is not connected or the parking brake is not applied.
- Connect the parking brake lead correctly, and apply the parking brake.
- The parking brake interlock is activated.
- Park your vehicle in a safe place and apply the parking brake.

No video output from the connected equipment.


- The [AV Input] or [AUX Input] setting is incorrect.
- Correct the settings.

The audio or video skips.

- This product is not firmly secured.
- Secure this product firmly.

No sounds are produced. The volume level will not rise.

- Cables are not connected correctly.
- Connect the cables correctly.

The icon  is displayed, and operation is impossible.

- The operation is not compatible with the video configuration.

Random playback in Music Browse mode is released in the USB storage device.

- Random playback in Music Browse mode is canceled after the ignition switch is turned off (ACC OFF).
- Switch to Music Browse mode again and turn on random playback.

The picture is stretched, with an incorrect aspect ratio.

- The aspect setting is incorrect for the display.
- Select the appropriate setting for that image.

iPod cannot be operated.

- The iPod is frozen.
- Reconnect the iPod with the USB interface cable for iPod/iPhone.
- Update the iPod software version.
- An error has occurred.
- Reconnect the iPod with the USB interface cable for iPod/iPhone.
- Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.
- Update the iPod software version.
- Cables are not connected correctly.
- Connect the cables correctly.

Sound from the iPod cannot be heard.

- The audio output direction may switch automatically when the Bluetooth and USB connections are used at the same time.
- Use the iPod to change the audio output direction.

No back camera image when the vehicle is in reverse.

- The back camera input setting on the receiver is set to Off.
- Change the back camera setting to On in the settings menu. (Refer to the System Settings

section of this manual to adjust.)

- The camera input may be loose or not connected.
- Check the connection and make sure the male end of the camera is connected to the brown input on the back of the receiver. (Refer to the installation manual.)
- The reverse lead on the receiver may not be connected to the proper wire at the reverse lamp.
- Check the connection and make sure that the violet/white lead of the receiver is connected to the lead whose voltage changes when the shift lever is put in reverse. (Refer to the installation manual.)

Black screen displayed when the vehicle is in reverse, with no camera installed.

- Back camera input is set to On.
- Turn the setting to Off in the settings menu. (Refer to the System Settings section of this manual to adjust.)

Back image displayed when vehicle is not in reverse.

- The camera polarity is not set properly in the Camera settings menu.
- Review System Settings section of this manual for steps to switch the camera polarity. Park in a safe place, then while keeping your foot firmly on the brake, put the vehicle in reverse, access the System Settings menu, and change the camera polarity setting. Put vehicle back in park. (Refer to the System Settings section of this manual to adjust.)

Problems with the phone screen

Dialing is impossible because the touch panel keys for dialing are inactive.

- Your phone is out of range for service.
- Retry after re-entering the range for service.
- The connection between the cellular phone and this product cannot be established.
- Perform the connection process.
- Of the two cellular phones connected to this product at the same time, if the first phone is dialing, ringing or a call is in progress, dialing cannot be performed on the second phone.
- When the operation on the first of the two cellular phones is completed, use the switch devices key to switch to the second phone and then dial.

Problems with Application A black screen is displayed.

- While operating an application, the application was ended on the smartphone side.**screen**
- Press (touch) to display the top menu screen.
- The smartphone OS may be awaiting screen operation.
- Stop the vehicle in a safe place and check the screen on the smartphone.

The screen is displayed, but operation does not work at all.

- An error has occurred.
- Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.

– When an Android device is connected, disconnect the Bluetooth connection from this product and then reconnect it.

The smartphone was not charged.

→ Charging stopped because the temperature of the smartphone rose due to prolonged use of the smartphone during charging.

– Disconnect the smartphone from the cable, and wait until the smartphone cools down.

→ More battery power was consumed than was gained from charging.

– This problem may be resolved by stopping any unnecessary services on the smartphone.

Sound from AppRadio Mode + of the Android device cannot be heard from the speakers of this unit.

→ Depending on the Android device, the sound from AppRadio Mode + may not be output from the speakers of this unit.

– Switch to [Smartphone] in the [AppRadio Mode Sound] settings

Specifications

General

Rated power source:

14.4 V DC (10.8 V to 15.1 V allowable)

Grounding system:

Negative type

Maximum current consumption:

10.0 A

Dimensions (W × H × D):

(MVH-2400NEX/MVH-2300NEX)

D

Chassis:

178 mm × 100 mm × 164 mm (7 in. × 3- 7/8 in. × 6-1/2 in.)

Nose:

171 mm × 97 mm × 14 mm (6-3/4 in. × 3-7/8 in. × 1/2 in.)

(MVH-1400NEX)

D

Chassis:

178 mm × 100 mm × 164 mm (7 in. × 3- 7/8 in. × 6-1/2 in.)

Nose:

171 mm × 97 mm × 7 mm (6-3/4 in. × 3-7/8 in. × 1/4 in.)

Weight:

1.2 kg (2.6 lbs)

Display

Screen size/aspect ratio:

(MVH-2400NEX/MVH-2300NEX)

6.94 inch wide/16:9 (effective display area: 156.24 mm × 81.605 mm) (6-1/8 in. × 3-1/4 in.)

(MVH-1400NEX)

6.2 inch wide/16:9 (effective display area: 137.52 mm × 77.232 mm) (5-3/8 in. × 3 in.)

Pixels:

(MVH-2400NEX/MVH-2300NEX)

1 209 600 (2 520 × 480)

(MVH-1400NEX)

1 152 000 (2 400 × 480)

Display method:

TFT Active matrix driving

Color system:

PAL/NTSC/PAL-M/PAL-N/SECAM compatible

Temperature range:

-10°C to +60°C (+14°F to +140°F)

Audio

Maximum power output:

- 50 W × 4 ch/4 Ω
- 50 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for subwoofer)

Continuous power output:

22 W × 4 (50 Hz to 15 kHz, 5 %THD, 4 Ω LOAD, Both Channels Driven)

Load impedance:

4 Ω (4 Ω to 8 Ω [2 Ω for 1 ch] allowable)

Preout output level (max): 4.0 V

Equalizer (13-Band Graphic Equalizer):

Frequency:

50 Hz/80 Hz/125 Hz/200 Hz/315 Hz/

500 Hz/800 Hz/1.25 kHz/2 kHz/3.15

kHz/5 kHz/8 kHz/12.5 kHz

Gain: ±12 dB (2 dB/step)

<Standard Mode>

HPF:

Frequency:

25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80

Hz/100 Hz/125 Hz/160 Hz/200 Hz/250Hz

Slope:

-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, OFF

Subwoofer/LPF:

Frequency:

25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz

Slope:

-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, -30 dB/oct, -36 dB/oct, OFF

Gain:

+10 dB to -24 dB (1 dB/step)

Phase: Normal/Reverse

Time alignment:

0 to 140 step (1 inch/step)

Bass boost:

Gain: +12 dB to 0 dB

Speaker level:

+10 dB to -24 dB (1 dB/step)

<Network Mode>

HPF (High):

Frequency:

1.25 kHz/1.6 kHz/2 kHz/2.5 kHz/3.15 kHz/4 kHz/5 kHz/6.3 kHz/8 kHz/10 kHz/ 12.5 kHz

Slope:

-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct

HPF (Mid):

Frequency:

25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz

Slope:

-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, OFF

LPF (Mid):

Frequency:

1.25 kHz/1.6 kHz/2 kHz/2.5 kHz/3.15 kHz/4 kHz/5 kHz/6.3 kHz/8 kHz/10 kHz/12.5 kHz

Slope:

-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, OFF

Subwoofer:

Frequency:

25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz

Slope:

-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, -30 dB/oct, -36 dB/oct, OFF

Gain:

+10 dB to -24 dB (1 dB/step)

Phase: Normal/Reverse

Time alignment:

0 to 140 step (1 inch/step)

Bass boost:

Gain: +12 dB to 0 dB

Speaker level:

+10 dB to -24 dB (1 dB/step)

USB

USB standard spec:

USB 1.1, USB 2.0 full speed, USB 2.0 high speed

Max current supply: 1.5 A

USB Class:

MSC (Mass Storage Class), MTP (Media Transfer Protocol)

File system: FAT16, FAT32, NTFS

<USB audio>

MP3 decoding format:

MPEG-1 & 2 & 2.5 Audio Layer 3

WMA decoding format:

Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio)

(Windows Media Player)

AAC decoding format:

MPEG-4 AAC (iTunes encoded only) (Ver. 12.5 and earlier)

FLAC decoding format:

Ver. 1.3.0 (Free Lossless Audio Codec)

WAV signal format (MSC Mode only):

Linear PCM

Sampling frequency:

Linear PCM:

16 kHz/22.05 kHz/24 kHz/32 kHz/44.1 kHz/48 kHz <USB image>

JPEG decoding format (MSC Mode only):

.jpeg, .jpg, .jpe

Pixel Sampling: 4:2:2, 4:2:0

Decode Size:

MAX: 8 192 (H) × 7 680 (W)

MIN: 32 (H) × 32 (W)

PNG decoding format (MSC Mode only):

.png

Decode Size:

MAX: 720 (H) × 576 (W)

MIN: 32 (H) × 32 (W)

BMP decoding format (MSC Mode only):

.bmp

Decode Size:

MAX: 1 920 (H) × 936 (W)

MIN: 32 (H) × 32 (W)

<USB video>

H.264 video decoding format:

Base Line Profile, Main Profile, High Profile

H.263 video decoding format:

Base Line Profile 0/3

VC-1 video decoding format:

Simple Profile, Main Profile, Advanced Profile

DivX:

Home Theater

MPEG4 video decoding format:

Simple Profile, Advanced Simple Profile

MPEG2 video decoding format:

Main Profile

Bluetooth

Version:

Bluetooth 4.1

Output power:

+4 dBm Max. (Power class 2)

Frequency band:

2 400 MHz to 2 483.5 MHz

FM tuner

Frequency range:

87.9 MHz to 107.9 MHz

Usable sensitivity:

12 dBf (1.1 μ V/75 Ω , mono, S/N: 30 dB)

Signal-to-noise ratio:

72 dB (IHF-A network)

AM tuner

Frequency range:

530 kHz to 1 710 kHz

Usable sensitivity:

28 μ V (S/N: 20 dB)

Signal-to-noise ratio:
62 dB (IHF-A network)

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

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