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Rear panel

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Tips

Operations cannot be performed through the remote control unit

The color of the menu screen and operations content displayed

Power does not turn on / Power is turned off

The menu screen is not displayed on the TV

USB memory devices cannot be played back

Music files on PC or NAS cannot be played back

The Internet radio cannot be played back

Various online services cannot be played

The HDMI Control function does not work

Cannot connect to a wireless I AN network

on the television is different from normal

Display on this unit shows nothing

Desired sound does not come out

No video is shown on the TV

AirPlay cannot be played back

Bluetooth cannot be played back

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Resetting factory settings

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Thank you for purchasing this Marantz product.

To ensure proper operation, please read this owner's manual carefully before using the product.

After reading this manual, be sure to keep it for future reference.

Accessories

Check that the following parts are supplied with the product.

Quick Start Guide	Safety Instructions	Notes on radio	Warranty (for USA/for CANADA)	Cable labels
Power cord	FM indoor antenna	AM loop antenna	Sound calibration microphone	Sound calibration microphone stand
Remote control unit (RC040SR)	R03/AAA batteries	External antennas for Bluetooth/wireless connectivity		



Playback

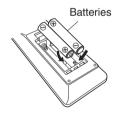
Settings

Inserting the batteries

Remove the rear lid in the direction of the arrow and remove it.



2 Insert two batteries correctly into the battery compartment as indicated.



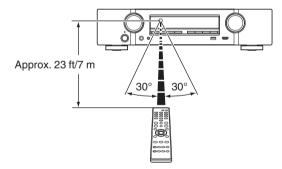
3 Put the rear cover back on.

NOTE

- To prevent damage or leakage of battery fluid:
 - Do not use a new battery together with an old one.
 - Do not use two different types of batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.

Operating range of the remote control unit

Point the remote control unit at the remote sensor when operating it.











Features

High quality sound

 With discrete circuit technology, the power amplifier provides identical quality for all 5-channels (60 Watts x 5-channels) For optimum realism and stunning dynamic range, the power amplifier section features discrete power devices (not integrated circuitry). By using high current, high power discrete power devices, the amplifier is able to easily drive high quality speakers.

High performance

· 4K 60Hz input/output supported



When 4K Ultra HD (High Definition) is used, an input/output speed of 60 frames per second (60p) is achieved for video signals. When connected to 4K Ultra HD and 60p video signal input compatible TV, you can enjoy the sense of realism only available from high-definition images, even when viewing fast-moving video.

This unit also supports image processing for 4K 60p, 4:4:4 and 24-bit videos. By processing the video at the original resolution, this unit lets you enjoy flawless, high-definition picture quality.

This unit also supports HDR (High Dynamic Range) and BT.2020 wide color gamut.

• HDCP 2.3

This unit is compatible with HDCP 2.3 copyright protection standard.

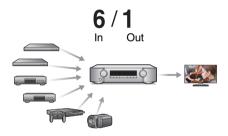
Front panel

eARC (Enhanced Audio Return Channel) function compatibility

The eARC function is compatible with conventional ARC functioncompatible audio formats in addition to multichannel linear PCM, Dolby TrueHD, DTS-HD Master Audio and other audio formats a conventional ARC function cannot transmit.

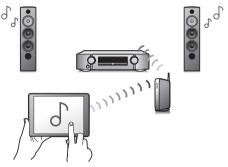
Additionally, connecting to an eARC function-compatible television enables enjoyment of higher-quality surround playback of the audio content played from your television.

HDMI connections enable connection to various digital AV devices (6 inputs, 1 output)



This unit is equipped with 6 HDMI inputs and 1 HDMI output enabling connection to various HDMI compatible devices such as Blu-ray Disc players, game consoles and HD video camcorders.

 The device is equipped with a AirPlay[®] function in addition to network functions such as Internet radio etc. (127 p. 84)



You can enjoy a wide variety of content, including listening to Internet Radio, playing audio files stored on your PC.

This unit also supports Apple AirPlay which lets you stream your music library from an iPhone[®], iPad[®], iPod touch[®] or iTunes[®].

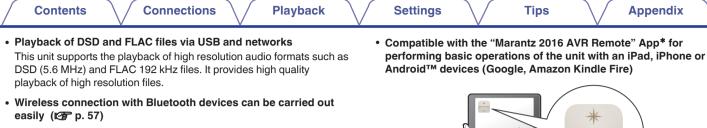
• Supports AirPlay 2[®] wireless audio

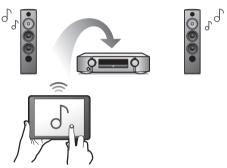
Sync multiple AirPlay 2 compatible devices/speakers for simultaneous playback.

This unit supports AirPlay 2 and requires iOS 11.4 or later.

Front panel







You can enjoy music simply by connecting wirelessly with your smartphone, tablet, PC, etc.

· Energy-saving design

This unit is equipped with an ECO Mode function that allows you to enjoy music and movies while reducing the power consumption during use, and also an auto-standby function that automatically turns off the power supply when the unit is not in use. This helps reduce unnecessary power use.



Along with many new features, the graphics and user interface have been completely overhauled. The new app gives you full control of this unit as well as access to its setup menu for detailed adjustments from your phones or tablets. "Marantz 2016 AVR Remote" App also gives you quick access to the receiver's status display, option menus, Marantz Blu-ray Disc player control, and online owner's manual for your convenience.

* Download the appropriate "Marantz 2016 AVR Remote" App for your iOS or Android devices. This unit needs to be connected to the same LAN or Wi-Fi (wireless LAN) network that the iPad, iPhone or Android™ is connected to.





Playback

HEOS provides streaming music from your favorite online music sources





HEOS wireless multi-room sound system that enables you to enjoy your favorite music anywhere and everywhere around your home. By utilizing your existing home network and the HEOS App (available for iOS, Android and Amazon devices), you can explore, browse, and play music from your own music library or from many online streaming music services.

When multiple HEOS devices are connected to the same network, HEOS devices can be grouped to play back the same music on all devices simultaneously, or different music can be played on each separate HEOS device.

Easy operation

• "Setup Assistant" provides easy-to-follow setup instructions First select the language when prompted. Then simply follow the instructions displayed on the TV screen to set up the speakers, network, etc.

Tips

• Easy to use Graphical User Interface

This unit is equipped with a Graphical User Interface for improved operability.

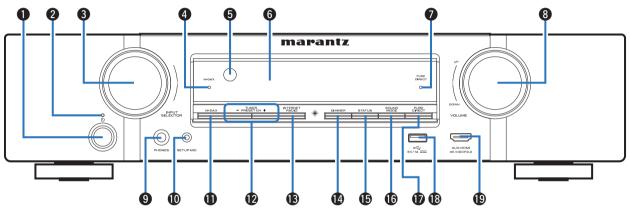




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Part names and functions

Front panel



For details, see the next page.





Settings Tips Appendix
 () INPUT SELECTOR knob () This selects the input source. (定 p. 51) () M-DAX indicator () This lights when the M-DAX mode is selected. (定 p. 127) () Common control sensor () This receives signals from the remote control unit. (定 p. 9) () Open DIRECT indicator () This lights when the "Pure Direct" mode is selected as the sound mode. (定 p. 90) () OLUME knob () This adjusts the volume level. (定 p. 52) () PaceDifference indicator (Direct) () This is used to connect headphones. () Men the headphones are plugged into this jack, audio will no longer be output from the connected speakers or from the PRE OUT connectors. () NOTE () Approximation of the set of the set of the proximation of the pro

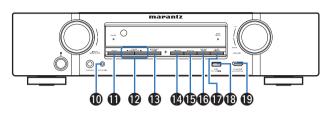


Front panel



Playback





Connections

M SETUP MIC jack

Contents

This is used to connect the supplied Sound calibration microphone. (@ p. 149)

M-DAX button

This switches the M-DAX mode. (P p. 127)

Tuner preset channel buttons (TUNER PRESET CH +, -)

These select preset broadcast stations. (PP p. 65)

INTERNET RADIO button

This switches the input source to "HEOS Music" - "TuneIn Internet Radio". (1 p. 69)

DIMMER button

Settings

Each press of this switches the brightness of the display. (P p. 172)

Tips

(f) STATUS button

Each press of this switches the status information that is shown on the display.

SOUND MODE button

Switching the sound mode. (12 p. 94)

PURE DIRECT button

This switches the sound mode between Direct. Pure Direct and Auto surround.

- "Direct playback" (1 p. 96)
- "Pure Direct playback" (1 p. 96)

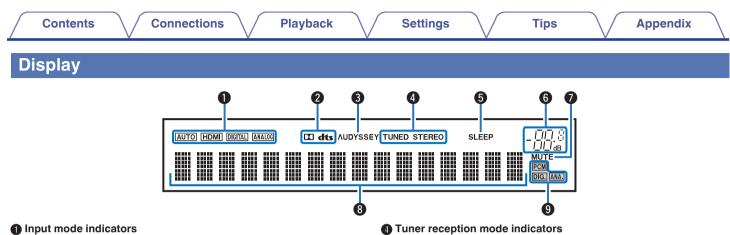
USB port (+++++)

This is used to connect USB storages (such as USB memory devices). (🖙 p. 43)

AUX-HDMI connector

This is used to connect HDMI output compatible devices such as video camcorders and game consoles. (127 p. 41)

Index



These light according to the audio input mode settings of each input source. (2 p. 144)

Decoder indicators

These light when Dolby or DTS signals are input or when the Dolby or DTS decoder is running.

B Audyssey[®] indicator

This lights when "MultEQ®", "Dynamic EQ" or "Dynamic Volume" has been set up. (@ p. 130)

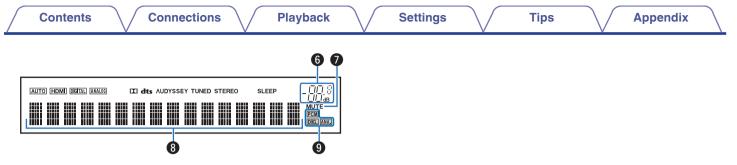
These light up according to the reception conditions when the input source is set to "Tuner".

TUNED: Lights up when the broadcast is properly tuned in. STEREO: Lights up when receiving FM stereo broadcasts.

6 Sleep timer indicator

This lights when the sleep mode is selected. (27 p. 107)





6 Volume indicator

MUTE indicator

This blinks while the sound is muted. (12 p. 52)

Information display

The input source name, sound mode, setting values and other information are displayed here.

Input signal indicators

The respective indicator will light corresponding to the input signal.

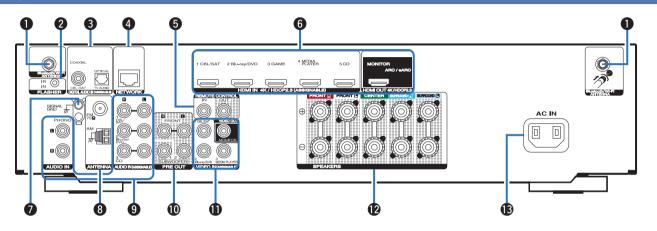






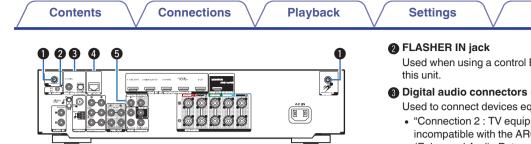


Rear panel



For details, see the next page.





Bluetooth/wireless LAN antenna connectors

Used to connect the included external antennas for Bluetooth/wireless connectivity when connecting to a network via wireless LAN, or when connecting to a handheld device via Bluetooth. (127 p. 47)

- (1) Place the external antennas for Bluetooth/wireless connectivity evenly over the screw terminal of rear.
- (2) Turn clockwise until the antennas is fully connected.
- (3) Rotate the antenna upwards for best reception.

Used when using a control BOX or other such control devices to control

Digital audio connectors (DIGITAL AUDIO)

Used to connect devices equipped with digital audio connectors.

Tips

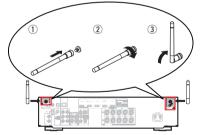
- "Connection 2 : TV equipped with an HDMI connector and incompatible with the ARC (Audio Return Channel) / eARC (Enhanced Audio Return Channel)" (1 p. 36)
- "Connection 3 : TV equipped without an HDMI connector" (@p. 37)
- "Connecting a set-top box (Satellite tuner/cable TV)" (
 p. 39)

A NETWORK connector

Used to connect to a LAN cable when connecting to a wired LAN network. (2 p. 46)

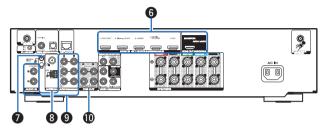
6 REMOTE CONTROL jacks

Used to connect infrared receivers/transmitters in order to operate this unit and external devices from a different room. (1) p. 48)





│ / Connections



6 HDMI connectors

Contents

Used to connect devices equipped with HDMI connectors.

- "Connection 1 : TV equipped with an HDMI connector and compatible with the ARC (Audio Return Channel) / eARC (Enhanced Audio Return Channel)" (127 p. 35)
- "Connection 2 : TV equipped with an HDMI connector and incompatible with the ARC (Audio Return Channel) / eARC (Enhanced Audio Return Channel)" (P p. 36)
- "Connecting a set-top box (Satellite tuner/cable TV)" (12 p. 39)
- "Connecting a DVD player or Blu-ray Disc player" (12 p. 40)

SIGNAL GND terminal

Used to connect a ground wire for the turntable. (127 p. 42)

8 FM/AM antenna terminals (ANTENNA)

Used to connect FM antennas and AM loop antennas. (ICP p. 44)

Analog audio connectors (AUDIO)

Used to connect devices equipped with analog audio connectors.

- "Connecting a set-top box (Satellite tuner/cable TV)" (m p. 39)
- "Connecting a DVD player or Blu-ray Disc player" ($\textcircled{\sc p}$ p. 40)
- "Connecting a turntable" (12 p. 42)

PRE OUT connectors

Used to connect a subwoofer with a built-in amplifier. (127 p. 30)







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Video connectors (VIDEO)

Used to connect devices equipped with video connectors.

- "Connecting a set-top box (Satellite tuner/cable TV)" (I p. 39)
- "Connecting a DVD player or Blu-ray Disc player" (1 p. 40)

Speaker terminals (SPEAKERS)

Used to connect speakers. (IP p. 29)

AC inlet (AC IN)

Used to connect the power cord. (127 p. 49)

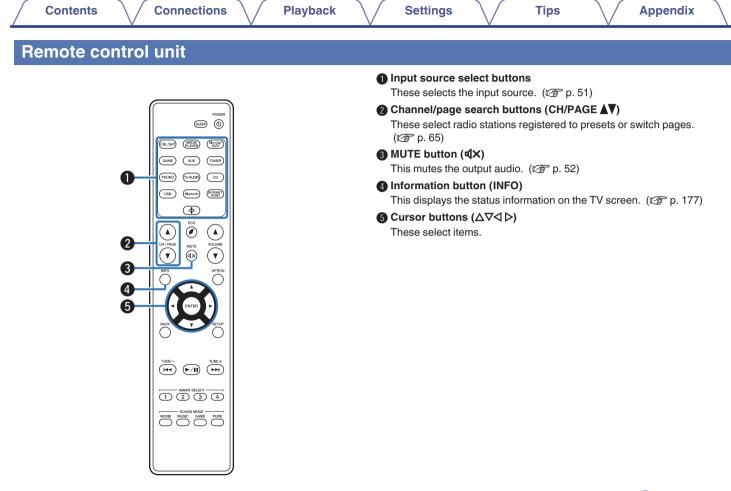
NOTE

• Do not touch the inner pins of the connectors on the rear panel. Electrostatic discharge may cause permanent damage to the unit.











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6	BACK button
	This returns to the previous screen.
0	System buttons
	These perform playback related operations.
	Tuning up / Tuning down buttons (TUNE +, -)
	These select either FM broadcast or AM broadcast. (127 p. 62)
8	SMART SELECT buttons (1 – 4)
	These call up settings registered to each button, such as input source volume level and sound mode settings. (\mathbb{CP} p. 109)
9	SOUND MODE buttons
-	These select the sound mode. (12 p. 94)
10	Remote control signal transmitter
Ī	This transmits signals from the remote control unit. (1 p. 9)
1	SLEEP button
-	This sets the sleep timer. (@p. 107)









С	on	ten	ts
		CUI	13

		の POWER button (の)
		This turns the power on/off. (2 p. 51)
		B ECO Mode button (
(POWER	This switches to ECO Mode. (12 p. 169)
	seep 🕚	WOLUME buttons (▲▼)
	(CBL/SAT) (MEDIA PLAYER (BU-ray) DVD	These adjusts the volume level. (🕼 p. 52)
	GAME AUX TUNER	OPTION button
	PHONO (TVAUDRO) CD	This displays the option menu on the TV screen.
	USB (Burtooth) (NTERNET)	ID ENTER button
		This determines the selection.
		SETUP button
	CH/PAGE NITE VOLUME	This displays the menu on the TV screen. (m p. 121)
	CH/PAGE MUTE VOLUME	
	BACK	
	1 2 3 4	
	MOME MUSIC GAME PURE	



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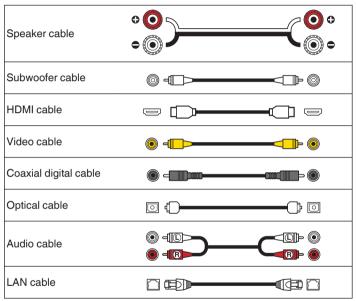
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Connecting the power cord	49

NOTE

- Do not plug in the power cord until all connections have been completed. However, when the "Setup Assistant" is running, follow the instructions in the "Setup Assistant" (page 9 in the separate "Quick Start Guide") screen for making connections. (During "Setup Assistant" operation, the input/output connectors do not conduct current.)
- Do not bundle power cords together with connection cables. Doing so can result in noise.

Cables used for connections

Provide necessary cables according to the devices you want to connect.



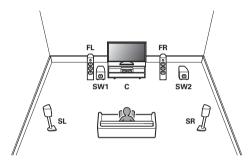
Front panel





Speaker installation

Determine the speaker system depending on the number of speakers you are using and install each speaker and subwoofer in the room. Speaker installation is explained using this example of a typical installation.

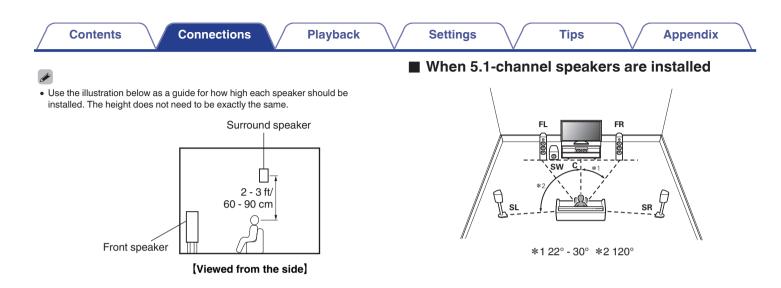


FL/FR (Front speaker left/ right):	Place the FRONT left and right speakers an equal distance from the main listening position. The distance between each speaker and your TV should also be the same.		
C (Center speaker):	Place the CENTER speaker in between the front speakers and above or below your TV.		
SL/SR (Surround speaker left/ right):	Place the SURROUND left and right speakers an equal distance to the left and right sides of the main listening position.		
SW 1/2 (Subwoofer):	Place the SUBWOOFER at a convenient location near the front speakers. If you have two subwoofers, place them asymmetrically across the front of your room.		









Connecting speakers

Here we connect the speakers in the room to this unit.

Before connecting speakers

NOTE

- Disconnect this unit's power plug from the power outlet before connecting the speakers. Also, turn off the subwoofer.
- Connect so that the speaker cable core wires do not protrude from the speaker terminal. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other. ("Protection circuit" (127 p. 222))
- Never touch the speaker terminals while the power cord is connected. Doing so could result in electric shock. When the "Setup Assistant" (page 9 in the separate "Quick Start Guide") is running, follow the instructions in the "Setup Assistant" screen for making connections. (Power is not supplied to the speaker terminals while the "Setup Assistant" is running.)
- Use speakers with an impedance of 4 16 Ω /ohms.

NOTE

- Carry out the following settings when using a speaker with an impedance of 4 6 $\Omega/ohms.$
 - 1. Press and hold the main unit's TUNER PRESET CH + and STATUS at the same time for at least 3 seconds.

"V.Format:< NTSC>" appears on the display.

- 2. Press DIMMER on the main unit three times. "Sp.Imp.:<80hms>" appears on the display.
- Press TUNER PRESET CH + or TUNER PRESET CH on the main unit to select the impedance.

8ohms (Default):	Select when the impedance for all of the connected speakers is 8 Ω /ohms or over.			
6ohms:	Select when the impedance for any of the connected speakers is 6 Ω /ohms.			
4ohms:	Select when the impedance for any of the connected speakers is 4 Ω /ohms.			

4. Press the main unit's STATUS to complete the setting.





Connecting the speaker cables

Carefully check the left (L) and right (R) channels and + (red) and -(black) polarities on the speakers being connected to this unit, and be sure to connect the channels and polarities correctly.

- Peel off about 3/8 inch (10 mm) of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.

Turn the speaker terminal counterclockwise to loosen it.



3 Insert the speaker cable's core wire to the hilt into the speaker terminal.



Turn the speaker terminal clockwise to tighten it. Δ



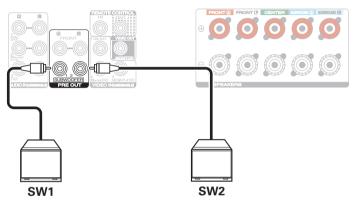


Remote

Connecting the subwoofer

Use a subwoofer cable to connect the subwoofer. Two subwoofers can be connected to this unit.

The same signal is output from the respective subwoofer terminals.







About the cable labels (supplied) for channel identification

The channel display section for speaker terminals on the rear panel is color-coded for each channel to be identifiable.

Attach the cable label corresponding to each speaker to each speaker cable.

This makes it easy to connect the correct cable to the speaker terminals on the rear panel.

Speaker	Color
FRONT L	White
FRONT R	Red
CENTER	Green
SURROUND L	Light Blue
SURROUND R	Blue
SUBWOOFER 1	Black
SUBWOOFER 2	Black

Attach the cable label for each channel to its speaker cable as shown in the diagram.

Refer to the table and attach the label to each speaker cable.

Then, make connection so that the color of the speaker terminal matches that of the cable label.

[How to attach the cable labels]





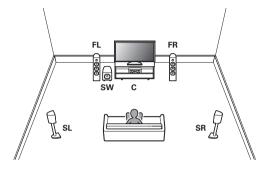


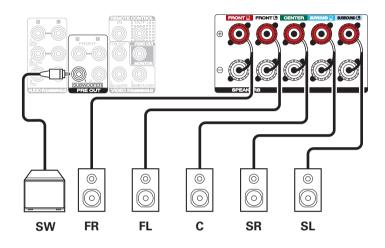




Standard connection

This serves as a basic 5.1-channel surround system.







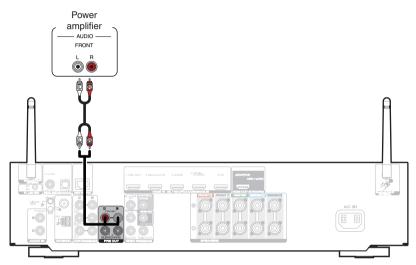
Remote





Connecting a front speaker that uses a power amplifier

This unit supports connection of a front speaker that uses an external power amplifier to increase its output. Connect a separately sold power amplifier to the PRE OUT (FL/FR) connector of this unit.





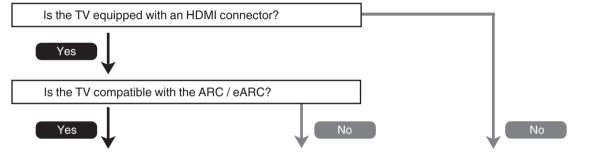
Contents Connection	ns	Playback	Settings	\setminus	Tips	\bigvee	Appendix	
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Connecting a TV

Connect a TV to this unit so that the input video is output to the TV. You can also enjoy audio from the TV on this unit.

How to connect a TV depends on the connectors and functions equipped on the TV.

ARC (Audio Return Channel) / eARC (Enhanced Audio Return Channel) function plays TV audio on this unit by sending the TV audio signal to this unit via HDMI cable.



"Connection 1 : TV equipped with an HDMI"Connection 2 : TV equipped with an HDMI"Connection 3 : TV equipped without
an HDMI connector" (IFP p. 37)Return Channel) / eARC (Enhanced Audio
Return Channel)" (IFP p. 35)Return Channel) / eARC (Enhanced Audio Return
Channel)" (IFP p. 36)Connector and incompatible with the ARC (Audio
an HDMI connector" (IFP p. 37)

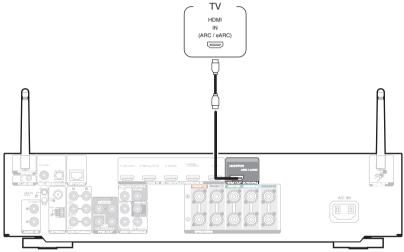


Connection 1 : TV equipped with an HDMI connector and compatible with the ARC (Audio Return Channel) / eARC (Enhanced Audio Return Channel)

Use an HDMI cable to connect a TV that is compatible with the ARC / eARC function to this unit.

Set "HDMI Control" to "On" or "ARC" to "On" when using a TV that supports the ARC function. (127 p. 136)

Using an eARC function-compatible television enables audio playback from the speaker connected to this unit, regardless of "HDMI Control" and "ARC" settings in the menu.



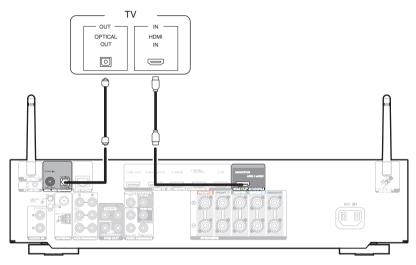
- eARC function settings may be required depending on the eARC function-compatible television you are using. Make sure eARC is set to on if this setting exists on your television. For more information, check your television's owner's manual.
- When an ARC and an eARC function-compatible televisions are connected, the eARC function-compatible television is prioritized.
- Use a "High Speed HDMI Cable with Ethernet" when using an ARC / eARC function-compatible television.



(Audio Return Channel) / eARC (Enhanced Audio Return Channel)

Use an HDMI cable to connect the TV to this unit.

To listen to audio from TV on this unit, use an optical cable to connect the TV to this unit.





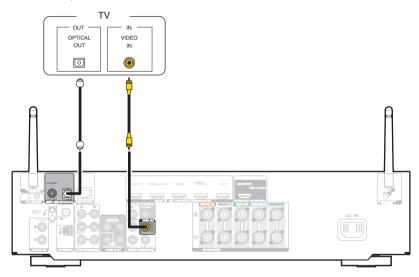


Contents	Connections	Playback	Settings	Tips	Appendix	
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Connection 3 : TV equipped without an HDMI connector

Use a video cable to connect the TV to this unit.

To listen to audio from TV on this unit, use an optical cable to connect the TV to this unit.









Tips

Connecting a playback device

This unit is equipped with two types of video input connectors (HDMI and composite video) and three types of audio input connectors (HDMI, digital audio and audio).

Select input connectors on this unit according to the connectors equipped on the device you want to connect.

If the device connected to this unit is equipped with an HDMI connector, it is recommended to use HDMI connections.

In the HDMI connection, audio and video signals can be transmitted through a single HDMI cable.

- "Connecting a set-top box (Satellite tuner/cable TV)" (1 p. 39)
- "Connecting a DVD player or Blu-ray Disc player" (1 p. 40)
- "Connecting a video camcorder or game console" (1 p. 41)
- "Connecting a turntable" (P p. 42)

- Connect devices to this unit as indicated by the input sources printed on the audio/video input connectors of this unit.
- The source that is assigned to the HDMI IN, DIGITAL AUDIO IN, VIDEO IN and AUDIO IN connectors can be changed. See "Input Assign" on how to change the input source assigned to the input connectors. (127 p. 142)
- To play back audio signals that are input to this unit on a TV connected via HDMI, set in the menu "HDMI Audio Out" to "TV". (127 p. 134)
- To enjoy content that is copyright protected by HDCP 2.2 or HDCP 2.3, use a playback device and TV compatible with HDCP 2.2 or HDCP 2.3.



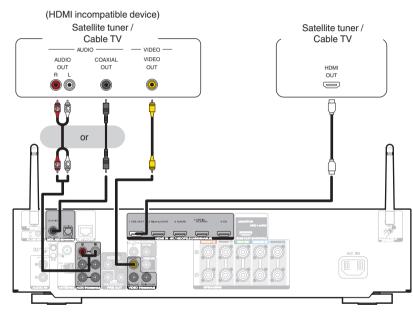




Connecting a set-top box (Satellite tuner/cable TV)

This explanation uses the connection with a satellite tuner/cable TV STB as an example.

Select the input connectors on this unit to match the connectors on the device that you want to connect to.



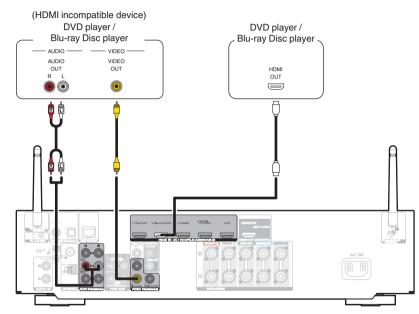




Contents Connecti	ns Playback	Settings	Tips	Appendix
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Connecting a DVD player or Blu-ray Disc player

This explanation uses the connection with a DVD player or Blu-ray Disc player as an example.











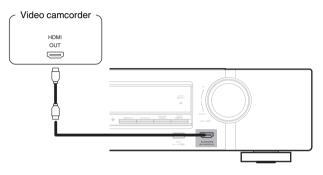
Contents	Connections	Playback	Settings	Tips	Appendix	\setminus
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Connecting a video camcorder or game console

This explanation uses the connection with a video camcorders as an example.

Display

Connect a playback device to this unit, such as a video camcorder or game console.



Front panel

• The 4K 60/50Hz video signal cannot be input to this connection using a format other than YCbCr 4:2:0. If your playback device does not support YCbCr 4:2:0 for the 4K 60/50Hz output format, use an HDMI connector on the rear panel.

41

Remote

Index

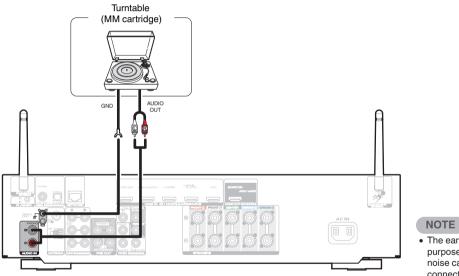
Rear panel

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Connecting a turntable

This unit is compatible with turntables equipped with a moving magnet (MM) phono cartridge. When you connect to a turntable with a low output moving coil (MC) cartridge, use a commercially available MC head amp or a step-up transformer.

If you set this unit's input source to "Phono" and you accidentally increase the volume without having a turntable connected, you may hear a hum noise from the speakers.



• The earth terminal (SIGNAL GND) of this unit is not for safety grounding purposes. If this terminal is connected when there is a lot of noise, the noise can be reduced. Note that depending on the turntable, connecting the ground line may have the reverse effect of increasing noise. In this case, it is not necessary to connect the ground line.



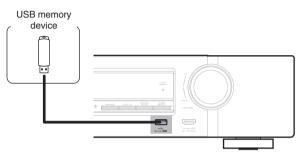




Contents	Connections	Playback	Settings	Tips	Appendix
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Connecting a USB memory device to the USB port

For operating instructions see "Playing a USB memory device" (1 p. 53).



• Marantz does not guarantee that all USB memory devices will operate or receive power. When using a portable USB hard disk drive (HDD) which came with an AC adapter, use that device's supplied AC adapter.

NOTE

- USB memory devices will not work via a USB hub.
- It is not possible to use this unit by connecting the unit's USB port to a PC via a USB cable.
- Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices.









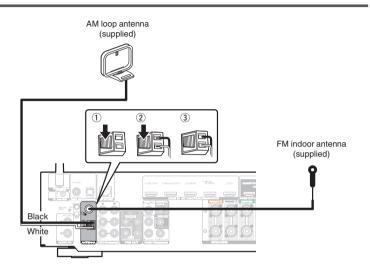
Connecting FM/AM antennas

Connect the antenna, tune in to a broadcast and then move the antenna to the location where there is least noise. Then use tape, etc. to fix the antenna in this location. ("Listening to FM/AM broadcasts" (P p. 61))

 If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit.

NOTE

Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.



Front panel







Using the AM loop antenna

Suspending on a wall

Suspend directly on a wall without assembling.



Nail, tack, etc.

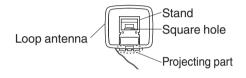
Standing alone

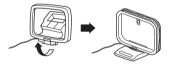
Use the procedure shown above to assemble.

When assembling, refer to "AM loop antenna assembly".

AM loop antenna assembly

- **1** Put the stand section through the bottom of the loop antenna from the rear and bend it forward.
- 2 Insert the projecting part into the square hole in the stand.













Connecting to a home network (LAN)

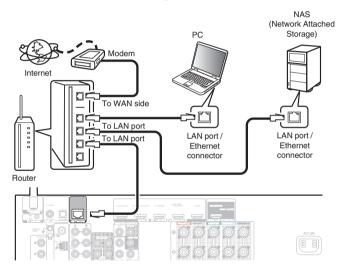
This unit can connect to a network using a wired LAN or wireless LAN. You can connect this unit to your home network (LAN) to enable various types of playback and operations as described below.

- Playback of network audio such as Internet Radio and from your media server(s)
- · Playback of streaming music services
- Using the Apple AirPlay function
- · Operation on this unit via the network
- · Operation with the HEOS wireless multi-room sound system
- Firmware Update

For connections to the Internet, contact an ISP (Internet Service Provider) or a computer shop.

Wired LAN

To make connections via wired LAN, use a LAN cable to connect the router to this unit as shown in the figure below.



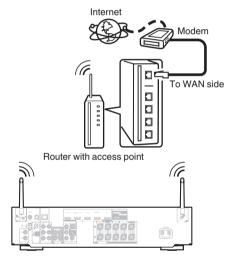
Front panel



Wireless LAN

When connecting to the network via wireless LAN, connect the external antennas for Bluetooth/wireless connectivity connection to the rear panel and stand them upright.

See "Wi-Fi Setup" on how to connect to a wireless LAN router. ($(\ensuremath{\mathbb{CP}}\xspace$ p. 163)



- When using this unit, we recommend you use a router equipped with the following functions:
 - Built-in DHCP server This function automatically assigns IP addresses on the LAN.
 - Built-in 100BASE-TX switch When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater.
- Only use a shielded STP or ScTP LAN cable (readily available at electronics stores). (CAT-5 or greater recommended)
- The normal shielded-type LAN cable is recommended. If a flat-type cable or unshielded-type cable is used, other devices could be affected by noise.
- When using this unit connected to a network with no DHCP function, configure the IP address, etc. in "Network". ($\ensuremath{\mathbb{CP}}$ p. 162)

NOTE

- The types of routers that can be used depend on the ISP. Contact your ISP or a computer shop for details.
- This unit is not compatible with PPPoE. A PPPoE compatible router is required if your contracted line is not set using PPPoE.
- Do not connect a NETWORK connector directly to the LAN port / Ethernet connector on your computer.
- Various online services may be discontinued without prior notice.

Front panel





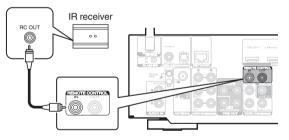
Connecting an external control device

REMOTE CONTROL jacks

Performing operations by RC on this unit without visual contact

You can connect an external IR receiver to the REMOTE CONTROL connectors to perform operations on this unit with the supplied remote control unit without visual contact. This might be necessary if the unit is hidden in a cupboard or corner, so you can't directly point with the remote control unit to the device.

To do this, disable the remote control signal receiving function ("Remote lock function" (${}^{r}_{T}$ p. 114)).



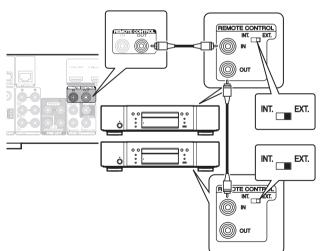
NOTE

• When the remote control signal receiving function is disabled, you can not perform operations with the remote control unit.

Remotely connecting Marantz devices

When you are using a Marantz device other than this unit that supports remote connection, you can transmit remote control signals just by connecting the device to the REMOTE CONTROL IN/OUT connector with a monaural cable.

Set the remote control switch located on the rear panel of the connected audio component to "EXTERNAL" or "EXT." to use this feature.



Front panel

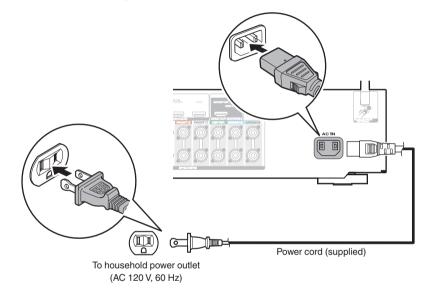
Rear panel





Connecting the power cord

After completing all the connections, insert the power plug into the power outlet.





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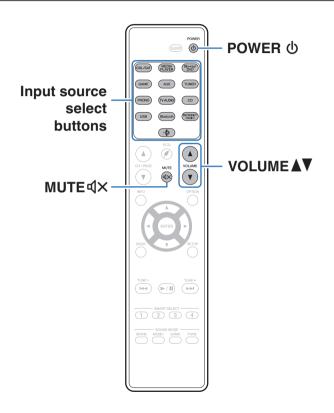
Front panel







Basic operation



Turning the power on

Press POWER 🕁 to turn on power to the unit.

• You can press the input source select button when the unit is in standby mode to turn on the power.

- You can also switch the power to standby by pressing $\ensuremath{\textcircled{}}$ on the main unit.

Selecting the input source

Press the input source select button to be played back. The desired input source can be selected directly.



 You can also select the input source by turning INPUT SELECTOR on the main unit.







Adjusting the volume

Use VOLUME **I** to adjust the volume.

- The variable range differs according to the input signal and channel level setting.
- You can also adjust the master volume by turning VOLUME on the main unit.

Turning off the sound temporarily (Muting)

Press MUTE **4**X.

- MUTE indicator on the display flashes.
- ◀× appears on the TV screen.

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- The sound is reduced to the level set at "Mute Level" in the menu. (1 p. 129)
- To cancel mute, either adjust the sound volume or press MUTE dx again.

Playback a DVD player/Blu-ray Disc player

Tips

The following describes the procedure for playing DVD player/Blu-ray Disc player.

Prepare for playback.

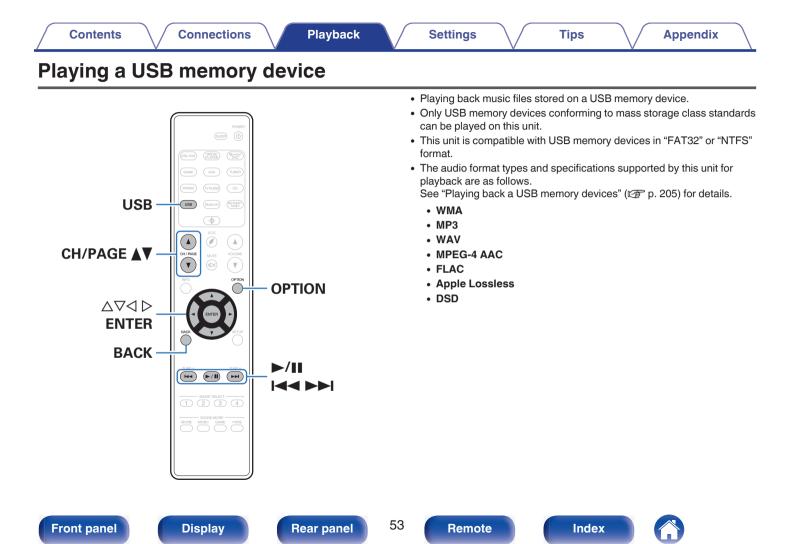
Turn on the power of the TV, subwoofer and player.
 Change the TV input to the input of this unit.

- 2 Press POWER () to turn on power to the unit.
- **3** Press Blu-ray/DVD to switch an input source for a player used for playback.
- **4** Play the DVD player or Blu-ray Disc player.
- Surround playback (
 r p. 94)

Front panel







Playing files stored on USB memory devices

- **1** Insert a "FAT32" or "NTFS" formatted USB memory device into the USB port.
- **2** Press USB to switch the input source to "USB".
- **3** Select the name of this unit.

4 Browse the music on your USB memory device and select something to play.

Tips

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• When you select something to play you will be asked how you want to queue up your music.

Play Now:	Inserts the item into the queue after the currently playing track and plays the selected item immediately.
Play Now & Replace Queue:	Clears the queue and plays the selected item immediately.
Play Next:	Inserts the item into the queue after the current song and plays it when the current song ends.
Add to End of Queue:	Adds the item to the end of the queue.



Front panel



Contents

Settings

Tips

Playback starts.



Operation buttons	Function
►/II	Playback / Pause
	Skip to previous track / Skip to next track
CH/PAGE ▲ ▼	Switch to the previous page/next page in the list display

• When an MP3 music file includes album art data, the album art can be displayed while playing the file.

NOTE

- Note that Marantz will accept no responsibility whatsoever for any problems arising with the data on a USB memory device when using this unit in conjunction with the USB memory device.
- When a USB memory device is connected to this unit, the unit loads all of the files on the USB memory device. Loading may take a while if the USB memory device contains a large number of folders and/or files.

Front panel





Operations accessible through the option menu

- "Adjusting the volume of each channel to match the input source (Ch Level Adjust)" (127 p. 91)
- "Adjusting the tone (Tone)" (m p. 92)
- "Displaying your desired video during audio playback (Video Select)" (127 p. 93)





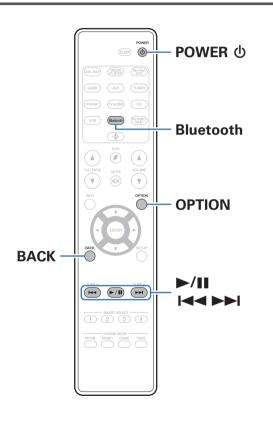






Playback

Listening to music on a Bluetooth device



Music files stored on Bluetooth devices such as smartphones, digital music players, etc. can be enjoyed on this unit by pairing and connecting this unit with the Bluetooth device.

Communication is possible up to a range of about 98.4 ft/30 m.

NOTE

 To play back music from a Bluetooth device, the Bluetooth device needs to support the A2DP profile.







Playing music from Bluetooth device

In order to enjoy music from a Bluetooth device on this unit, the Bluetooth device must first be paired with this unit.

Once the Bluetooth device has been paired, it does not need to be paired again.

Prepare for playback.

- Connect the supplied external antennas for Bluetooth/wireless connectivity to the Bluetooth/wireless LAN antenna connectors on the rear panel. (127 p. 20)
- (2) Press POWER 0 to turn on power to the unit.

2 Press Bluetooth.

When using for the first time, the unit will go into the pairing mode automatically and "Pairing..." will appear on the display of the unit.

3 Activate the Bluetooth settings on your mobile device.

4 Select this unit when its name appears in the list of devices displayed on the screen of the Bluetooth device.

Tips

Connect to the Bluetooth device while "Pairing" is being displayed on the display of the unit.

Perform the connection with the Bluetooth device close to the unit (about 3.3 ft/1 m).

5 Play music using any app on your Bluetooth device.

- The Bluetooth device can also be operated with the remote control of this unit.
- The next time the Bluetooth button is pressed on the remote control unit, this unit automatically connects to the last Bluetooth device that was connected.

Operation buttons	Function
►/II	Playback / Pause
	Skip to previous track / Skip to next track

(

• Press STATUS on this unit during playback to switch the display between Title name, Artist name, Album name, etc.

Front panel



Pairing with other Bluetooth devices

Pair a Bluetooth device with this unit.

- Activate the Bluetooth settings on your mobile device.
- **2** Press and hold Bluetooth on the remote control unit for at least 3 seconds.

This unit will go into the pairing mode.

3 Select this unit when its name appears in the list of devices displayed on the screen of the Bluetooth device.

- This unit can be paired with a maximum of 8 Bluetooth devices. When a 9th Bluetooth device is paired, it will be registered in place of the oldest registered device.
- You can also enter pairing mode by pressing the OPTION button when the Bluetooth playback screen is displayed and selecting "Pairing Mode" from the displayed option menu.

NOTE

- To operate the Bluetooth device with the remote control of this unit, the Bluetooth device needs to support the AVRCP profile.
- The remote control of this unit is not guaranteed to work with all Bluetooth devices.
- Depending on the type of Bluetooth device, this unit outputs audio that is coupled to the volume setting on the Bluetooth device.

Operations accessible through the option menu

- "Pairing with other Bluetooth devices" (127 p. 59)
- "Adjusting the volume of each channel to match the input source (Ch Level Adjust)" (127 p. 91)
- "Adjusting the tone (Tone)" (2 p. 92)
- "Displaying your desired video during audio playback (Video Select)" (P. 93)

Front panel



Reconnecting to this unit from a Bluetooth device

After pairing is completed, the Bluetooth device can be connected without performing any operations on this unit.

This operation also needs to be performed when switching the Bluetooth device for playback.

- **1** If a Bluetooth device is currently connected, deactivate the Bluetooth setting of that device to disconnect it.
- 2 Activate the Bluetooth setting of the Bluetooth device to be connected.
- **3** Select this unit from the Bluetooth device list on your Bluetooth device.
- **4** Play music using any app on your Bluetooth device.

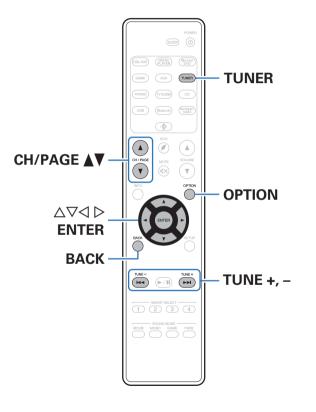
- The screen automatically switches to the "Bluetooth" playback screen if a Bluetooth device is connected while the power of this unit is on.
- When the "Network Control" setting of this unit is set to "Always On" and a Bluetooth device is connected with the unit in the standby state, the power of the unit will be turned on automatically. (127 p. 166)

Front panel









You can use the built-in tuner of this unit to listen to FM broadcasts and AM broadcasts.

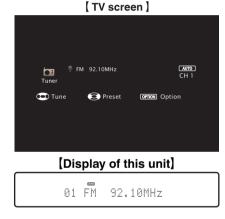
Make sure the FM antenna and AM loop antenna are connected to this unit first.





Listening to FM/AM broadcasts

- Connect the antenna. ("Connecting FM/AM antennas" (1 p. 44))
- **2** Press TUNER to switch the input source to "Tuner".



3 Press OPTION.

The option menu screen is displayed.

4 Use $\Delta \nabla$ to select "FM/AM", then press ENTER.

This displays the reception band input screen.

5 Use $\triangleleft \triangleright$ to select "FM" or "AM", then press ENTER.

Tips

FM:	When listening to an FM broadcast.
AM:	When listening to an AM broadcast.

6 Press TUNE + or TUNE – to select the station you want listen to.

Scanning is performed until it finds an available radio station. When it finds a radio station, it stops the scan automatically and tunes in.

• The modes for receiving FM broadcasts consists of "Auto" mode that automatically searches available broadcast stations and "Manual" mode that lets you tune in using buttons to change the frequency. The default setting is "Auto". You can also use "Direct Tune" to tune in by entering the frequency directly.

In "Auto" mode, you cannot tune in to radio stations if the reception is not good. If this is the case, then use the "Manual" mode or "Direct Tune" mode to tune in.

Operation buttons	Function
TUNE +, -	Selects the radio station (up/down)
CH/PAGE	Selects preset radio stations
$\Delta \nabla$	Selects the radio station (up/down)
$\triangleleft \triangleright$	Selects preset radio stations







Contents

Operations accessible through the option menu

- "Tuning in by entering the frequency (Direct Tune)" (1 p. 63)
- "Changing the tune mode (Tune Mode)" (
 P p. 64)
- "Tuning in to stations and presetting them automatically (Auto Preset)" (127 p. 64)
- "Presetting the current broadcast station (Preset Memory)" (P p. 65)
- "Specify a name for the preset broadcast station (Preset Name)" (127 p. 66)
- "Skipping preset broadcast stations (Preset Skip)" (1 P. 67)
- "Adjusting the volume of each channel to match the input source (Ch Level Adjust)" (127 p. 91)
- "Adjusting the tone (Tone)" (P p. 92)
- "Displaying your desired video during audio playback (Video Select)" (127 p. 93)

Tuning in by entering the frequency (Direct Tune)

You can enter the receiving frequency directly to tune in.

- **1 Press OPTION when the input source is "Tuner".** The option menu screen is displayed.
- **3** Use $\Delta \nabla$ to select a number, then press \triangleright .
 - If \lhd is pressed, the immediately preceding input is cancelled.
- 4 Repeat step 3 and enter the frequency of the radio station you want to hear.
- 5 When setting is completed, press ENTER.

The preset frequency is tuned in.

Changing the tune mode (Tune Mode)

You can change the mode for tuning into FM and AM broadcasts. If you cannot tune in automatically with "Auto" mode, change the mode to "Manual" and tune in manually.

Press OPTION when the input source is "Tuner".

The option menu screen is displayed.

2 Use $\Delta \nabla$ to select "Tune Mode", then press ENTER.

3 Use $\triangleleft \triangleright$ to select the tune mode, then press ENTER.

Auto:	Automatically search for and tune to a receivable radio station.
Manual:	Manually change the frequency one step at a time each time the button is pressed.

Tuning in to stations and presetting them automatically (Auto Preset)

A maximum of 56 radio stations can be automatically preset.

- **1** Press OPTION when the input source is "Tuner". The option menu screen is displayed.
- **2** Use $\Delta \nabla$ to select "Auto Preset", then press ENTER.

3 Press ENTER.

The unit starts to tune in to radio stations automatically and preset them.

• When presetting is completed, "Completed" is displayed for about 5 seconds and the option menu screen turns off.

• The preset memory is overwritten.





^{(&}lt;sup>s</sup>

Settings

Presetting the current broadcast station (Preset Memory)

Your favorite broadcast stations can be preset so that you can tune them in easily.

Up to 56 stations can be preset.

- **1** Tune in the broadcast station you want to preset. ("Listening to FM/AM broadcasts" (1 p. 62))
- **2** Press OPTION.

The option menu screen is displayed.

- 3 Use △▽ to select "Preset Memory", then press ENTER. The list of already preset channels is displayed.
- 4 Use $\Delta \nabla$ to select the channel you want to preset, then press ENTER.

The current broadcast station that is preset.

• To preset other stations, repeat steps 1 to 4.

Channel	Default settings
1 – 8	92.10 / 92.30 / 92.50 / 92.70 / 93.10 / 93.50 / 93.70 / 94.10 MHz
9 – 16	94.30 / 94.50 / 94.70 / 94.90 / 95.10 / 95.30 / 95.50 / 95.70 MHz
17 – 24	98.10 / 98.30 / 98.50 / 98.70 / 98.90 / 99.10 / 100.10 / 100.30 MHz
25 – 32	100.50 / 100.70 / 100.90 / 101.10 / 101.30 / 101.50 / 101.70 / 101.90 MHz
33 – 40	103.10 / 103.30 / 103.50 / 103.70 / 103.90 / 104.10 / 104.30 / 104.50 MHz
41 – 48	104.70 / 104.90 / 105.10 / 105.30 / 105.50 / 105.70 / 105.90 / 106.10 MHz
49 – 56	106.30 / 106.50 / 106.70 / 106.90 / 107.10 / 107.30 / 107.50 / 107.90 MHz

Listening to preset stations

1 Use CH/PAGE ▲▼ to select the desired preset channel.

 You can also select preset broadcast stations by pressing TUNER PRESET CH + or TUNER PRESET CH – on the main unit.







5

Specify a name for the preset broadcast station (Preset Name)

You can set the name to the preset broadcast station or change it. Up to 8 characters can be input.

- **1 Press OPTION when the input source is "Tuner".** The option menu screen is displayed.
- 2 Use △▽ to select "Preset Name", then press ENTER. The "Preset Name" screen is displayed.
- **3** Use $\triangleleft \triangleright$ to select the group of the broadcast station you want to name.
- 4 Use $\Delta \nabla$ to select the broadcast station you want to name, then press ENTER.

Use $\Delta \nabla$ to select a name label, then press ENTER.

The screen that lets you edit the Preset Name is displayed.

- If you select "Set Defaults", then the unit returns to displaying the frequency.
- 6 Enter the characters, then press "OK".
- **7** Press OPTION to return to the previous screen.







Skipping preset broadcast stations (Preset Skip)

Perform auto preset memory to save all the broadcasting stations that can be received in the memory. Selecting a broadcast station becomes easier by skipping unnecessary memories.

- **1** Press OPTION when the input source is "Tuner". The option menu screen is displayed.
- $\label{eq:linear} \textbf{2} \quad \text{Use } \triangle \nabla \text{ to select "Preset Skip", then press ENTER.}$

The "Preset Skip" screen is displayed.

3 D To set the stations you want to skip by groups

- (1) Use $\triangleleft \triangleright$ to select the group of broadcast stations you want to skip.
- ② Press △ to select "Set No.* * to Skip", then press ENTER. Skip all the broadcast stations that are included in the selected group "*-*".
 - (* is the selected group number.)

To set the stations you want to skip by stations

- Use < ▷ to select the group of broadcast stations you want to skip.
- (2) Use $\Delta \nabla$ to select the broadcast station you want to skip.
- (3) Use $\triangleleft \triangleright$ to select "Skip".

The station you selected is not displayed.

4 Press OPTION to return to the previous screen.









- 1 While the "Preset Skip" screen is displayed, use ⊲ ▷ to select a group containing a broadcast station to cancel the skip for.
- $\label{eq:loss_loss} 2 \quad \text{Use } \triangle \nabla \text{ to select a broadcast station to cancel the skip} \\ \text{for.}$
- **3** Use $\triangleleft \triangleright$ to select "On".

The skip is cancelled.

NOTE

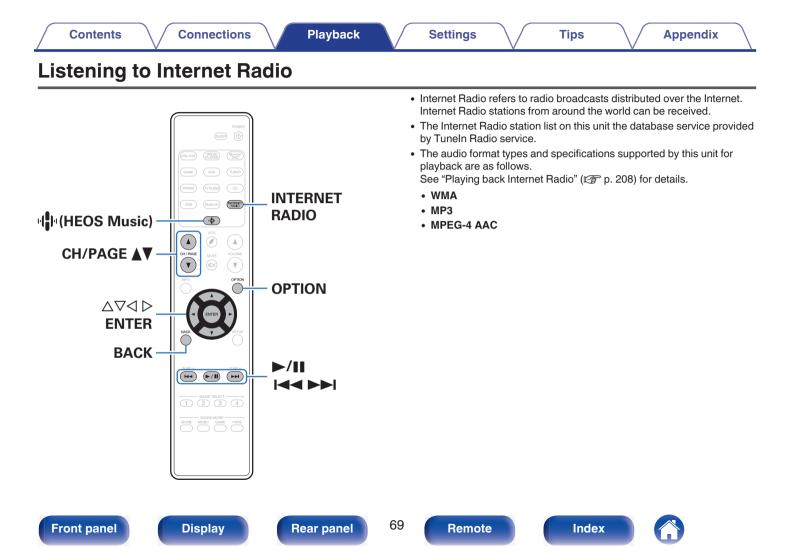
• "Preset Skip" cannot be cancelled for groups.











Listening to Internet Radio

Press INTERNET RADIO.

 You can also press ⁴↓ (HEOS Music). Use △▽ to select "TuneIn Internet Radio", then press ENTER.

2 Select the station you want to play.

Operation buttons	Function
►/II*	Playback / Pause
*	Skip to previous track / Skip to next track
CH/PAGE ▲ ▼	Switch to the previous page/next page in the list display

* Enabled when playing Podcasts.

• The display switches between track title and radio station name etc. each time the main unit's STATUS is pressed.

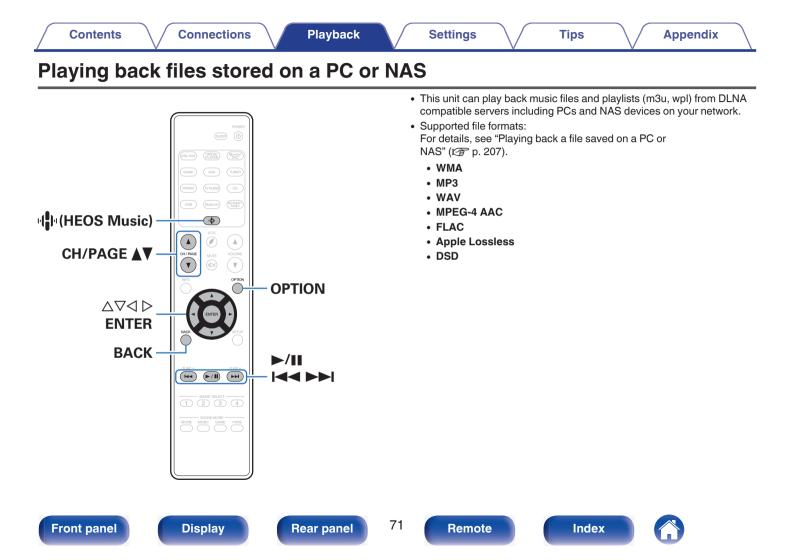
NOTE

• The radio station database service may be suspended or be otherwise unavailable without notice.

Operations accessible through the option menu

- "Adding to HEOS Favorites" (1 p. 89)
- "Adjusting the volume of each channel to match the input source (Ch Level Adjust)" (127 p. 91)
- "Adjusting the tone (Tone)" (P p. 92)
- "Displaying your desired video during audio playback (Video Select)" (127 p. 93)

Front panel

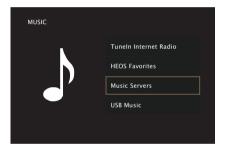


Playing back files stored on a PC or NAS

Use this procedure to play music files or playlists stored on DLNA files servers on your local network.

Press 🕸 (HEOS Music).

- 2
- Use $\Delta \nabla$ to select "Music Servers", then press ENTER.



3 Select the name of your networked PC or NAS (Network Attached Storage) server.

4 Browse the music on your PC/NAS and select something to play.

Tips

• When you select something to play you will be asked how you want to queue up your music.

Play Now:	Inserts the item into the queue after the currently playing track and plays the selected item immediately.
Play Now & Replace Queue:	Clears the queue and plays the selected item immediately.
Play Next:	Inserts the item into the queue after the current song and plays it when the current song ends.
Add to End of Queue:	Adds the item to the end of the queue.



Front panel



Playback starts.



Operation buttons	Function
►/II	Playback / Pause
	Skip to previous track / Skip to next track
CH/PAGE ▲ ▼	Switch to the previous page/next page in the list display

- The display switches between track title, artist name, and album title each time the main unit's STATUS is pressed.
- When a WMA (Windows Media Audio), MP3 or MPEG-4 AAC file includes album art data, the album art can be displayed while the music files are playing.
- If you use Ver.11 or later of Windows Media Player, the album art for WMA files can be displayed.

NOTE

- When playing back music files with your PC or NAS connected through wireless LAN, audio may be interrupted depending on your wireless LAN environment. In this case, connect using a wired LAN.
- The order in which the tracks/files are displayed depends on the server specifications. If the tracks/files are not displayed in alphabetical order due to the server specifications, searching by the first letter may not work properly.

Front panel



Operations accessible through the option menu

- "Adjusting the volume of each channel to match the input source (Ch Level Adjust)" (127 p. 91)
- "Adjusting the tone (Tone)" (P p. 92)
- "Displaying your desired video during audio playback (Video Select)" (127 p. 93)











Getting the HEOS App

You can use many online music streaming services from the HEOS App. Depending upon your geographical location, there are several options to choose from.

Download the HEOS App for iOS or Android by searching App Store, Google Play store or Amazon Appstore for "HEOS".











Front panel

Display

Rear panel

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Signing up for a HEOS Account

You will be instructed to signup for a HEOS Account the first time you try to access any music service from the main "Music" menu of the HEOS App.

Why do I need a HEOS Account?

With the HEOS Account you just have to enter your music services login names and passwords one time. This allows you to easily and guickly use multiple controller apps on different devices.

your HEOS music services with one single username and password.

You just log into your HEOS Account on any device and you will have access to all of your associated music services, play history and custom plavlists, even if you are at a friend's house listening to music on their HEOS system.

A HEOS Account is master account or "keychain" for managing all of

HEOS App. What is a HEOS Account?

menu of this unit or by tapping "Music" tab - "Settings" icon 🙆 in the

Connections

HEOS Account HEOS Accounts can be registered in "HEOS Account" (1 p. 168) in the

Changing your HEOS Account

Playback

Tap the "Music" tab.

Settinas

2 Select the Settings icon in the upper left corner of the screen.

Tips

- 3 Select "HEOS Account".
- 4 Change your location, change your password, delete your account or sign out of your account.

Appendix

Playing from streaming music services

A music service is an online music company that provides access to vast music collections via free and/or paid subscriptions. Depending upon your geographical location, there are several options to choose from.

NOTE

 The HEOS app and brand is not affiliated with any manufacturer of any mobile device. Availability of music services may vary by region. Not all services may be available at time of purchase. Some services may be added or discontinued from time to time based on decisions of the music service providers or others.

Selecting a room/device

Tap the "Rooms" tab, and select "Marantz NR1510" if there are multiple HEOS devices.

• Tap the Pencil icon 2 at the top right to switch edit mode. You can change the displayed name.



Tips

Front panel









Selecting the music track or station from music sources

- Tap the "Music" tab and select a music source.

 - All music services displayed may not be available in your location.











Contents

Browse the music to play.

After selecting a music track or radio station the app will automatically change to the "Now Playing" screen.

2

• When you select a music track to play you will be asked how you want to queue up your music.

Play Now:	Inserts the item into the queue after the currently playing track and plays the selected item immediately.
Play Now & Replace Queue:	Clears the queue and plays the selected item immediately.
Play Next:	Inserts the item into the queue after the current song and plays it when the current song ends.
Add to End of Queue:	Adds the item to the end of the queue.

• When you select a radio station the following items are displayed.

Plays Now: Plays the selected item immediately.

Add to HEOS Favorites: Adds to HEOS Favorites.







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Remote



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Appendix

Listening to the same music in multiple rooms

The HEOS system is a true multi-room audio system that automatically synchronizes audio playback between multiple HEOS devices so that the audio coming from different rooms is perfectly in sync and always sounds amazing! You can easily add up to 32 HEOS devices to your HEOS system. You can join or group up to 16 individual HEOS devices into a group of HEOS devices that function as if they were a single HEOS device.

Grouping rooms

- **1** Press and hold your finger on room that is not playing music.
- **2** Drag it into the room that is playing music (indicated by the red outline) and lift your finger.
- **3** The two rooms will be grouped together into a single device group and both rooms will be playing the same music in perfect sync.



Front panel





Contents Connections Playback Settings Tips Appendix Ungrouping rooms Rooms ß Rooms Drag one room into another to group them Drag one room into another to group them 1 Press and hold your finger on room that you want to Dining Dining remove from the group. Song Name 1 Song Name 1 2 Drag it out of the group and lift your finger. Living Song Name 2 Living Song Name 2 Living Kitchen Song Name 4 NOTE 2

1→

Kitchen Bedroom

5

Norma Planete

• You can not remove the first room that started playing the music before grouping.

Front panel









Bedroom

5

Now Playing

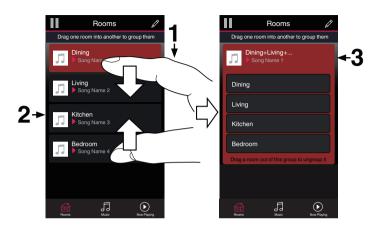
Tips

Appendix

Grouping all rooms (party mode)

You can easily group 16 rooms together into Party Mode by using a "pinch" gesture.

- Place two fingers on the screen over the list of rooms.
- **2** Quickly pinch your two fingers together and release.
- **3** All of your rooms will be joined together and begin playing the same music in perfect sync.



Front panel







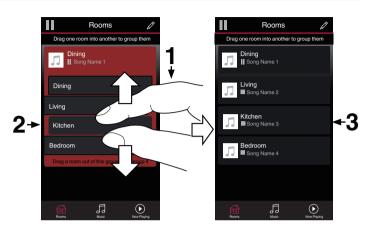
Tips

Appendix

Ungrouping all rooms

You can easily ungroup all of your rooms and exit Party Mode by using a "spread" gesture.

- **1** Place two fingers close together on the screen over list of rooms.
- **2** Quickly spread your two fingers apart from each other and release.
- **3** All of your rooms will be ungrouped.











AirPlay function

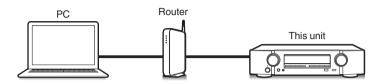
Music files stored on your iPhone, iPod touch, iPad or iTunes can be played on this unit via the network.

- Source input will be switched to "HEOS Music" when AirPlay playback is started.
- You can stop AirPlay playback by choosing other input source.
- To see song and artist names together, press STATUS on the main unit.
- For information about how to use iTunes, also see the Help for iTunes.
- The screen may differ depending on the OS and software versions.

This unit supports AirPlay 2.

Sync multiple AirPlay 2 compatible devices/speakers for simultaneous playback.

• This unit supports AirPlay 2 and requires iOS 11.4 or later.











Playing songs from your iPhone, iPod touch or iPad

If you update your "iPhone/iPod touch/iPad" to iOS 4.2.1 or later, you can stream music stored in your "iPhone/iPod touch/iPad" directly to this unit.

- Connect your iPhone, iPod touch or iPad Wi-Fi to the same network as this unit.
 - · For details, see your device's manual.

2 Play the song on your iPhone, iPod touch or iPad.

AirPlay icon is displayed on the iPhone, iPod touch or iPad screen.

3 Tap the AirPlay icon and select this unit.





Playing iTunes music with this unit

Install iTunes 10, or later, on a Mac or Windows PC that is connected to the same network as this unit.

2 Turn this unit ON.

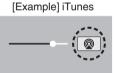
Set "Network Control" to "Always On" for this unit. (P p. 166)

NOTE

- When "Network Control" is set to "Always On", the unit consumes more standby power.
- 3

Δ

Start iTunes and click the AirPlay icon to select this unit.



Choose a song and click play in iTunes.

The music will stream to this unit.







NOTE

• In playback using the AirPlay function, the sound is output at the iPhone, iPod touch, iPad or iTunes volume setting level.

You should turn down the iPhone, iPod touch, iPad or iTunes volume prior to playback and then adjust it to a suitable level.

Play a song from your iPhone, iPod touch or iPad on multiple synced devices (AirPlay 2)

Songs from an iPhone, iPod touch or iPad operating iOS 11.4 or later can be synced with multiple AirPlay 2 supported devices for simultaneous playback.

Play the song on your iPhone, iPod touch or iPad.

AirPlay icon is displayed on the iPhone, iPod touch or iPad screen.



2 Tap the AirPlay icon.

Displays a list of devices/speakers that can be played back on the same network.

• A circle is displayed to the right of AirPlay 2 compatible devices.



3 Tap the devices/speakers you want to use.

- Multiple AirPlay 2 compatible devices can be selected.
- Volume can be adjusted for each device individually or for all synced devices simultaneously.

	iPhone	
ò	Marantz xxxxxxxx	0
ò	Speakers	9
	•	• »)



Spotify Connect function

Spotify is the world's most popular streaming service. If you subscribe to Spotify Premium, you can control your new speaker with your phone or tablet. Because Spotify is built-in to your speaker, you can still take calls or use other apps - the music never stops.

For information on how to set up and use Spotify Connect please visit www.spotify.com/connect

Spotify server Spotify Spotify Spotify App This unit Audio Streaming/ control

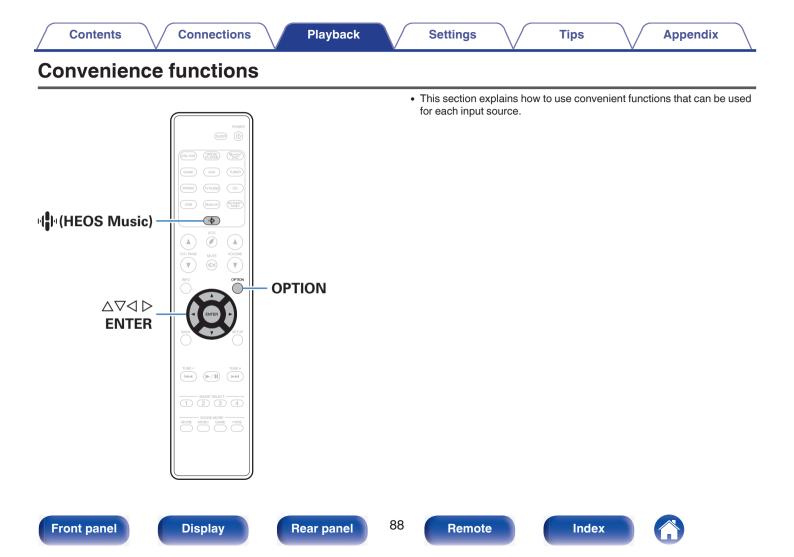
Playing Spotify music with this unit

Download the "Spotify App" onto your Android or iOS device beforehand. To play a Spotify track in this unit, you need to register in the Spotify premium account first.

- Connect the Wi-Fi settings of the iOS or Android device in the same network as this unit.
- **2** Launch the Spotify App.
- **3** Play back the Spotify track.
- 4 Tap the Spotify icon 🗐 to select the unit. The music will stream to this unit.







Adding to HEOS Favorites

While content is playing, press OPTION.

The option menu screen is displayed.

Playing back HEOS Favorites

- Press 🕆 (HEOS Music).
- **2** Use $\Delta \nabla$ to select "HEOS Favorites", then press ENTER.



3 Browse the content and select something to play.







- 1 While the HEOS Favorites content list is displayed, use △▽ to select the item you want to remove from HEOS Favorites, then press OPTION.
- $\label{eq:loss_loss} 2 \quad \text{Use } \Delta \nabla \text{ to select "Remove from HEOS Favorites", then} \\ \text{press ENTER.} \\$









Adjusting the volume of each channel to match the input source (Ch Level Adjust)

The volume of each channel can be changed while listening to music. You can set this for each input source.

Press OPTION.

An option menu screen is displayed.

• When the input source is "HEOS Music", an option menu for online music is displayed. Select "AVR Options...", then press ENTER.

2 Use △▽ to select "Ch Level Adjust", then press ENTER. The "Ch Level Adjust" screen is displayed.

3 Use $\Delta \nabla$ to select the channel that you wish to adjust.

4 Use $\triangleleft \triangleright$ to adjust the volume.

-12.0 dB - +12.0 dB (Default: 0.0 dB)

5 Use $\Delta \nabla \triangleleft \triangleright$ to select "Exit", then press ENTER.

Tips

- Select "Reset" and press ENTER if you want to restore the adjustment values of the various channels to "0.0 dB" (Default).
- Headphone volume can be adjusted when a headphone is connected.
- "Ch Level Adjust" settings are stored for each input source.
- You can only set this for speakers that output audio. In addition, you cannot set this when in the menu "HDMI Audio Out" is set to "TV". (127 p. 134)

Front panel



Adjusting the tone (Tone)

Adjusts the tonal quality of the sound.

Press OPTION.

An option menu screen is displayed.

 When the input source is "HEOS Music", an option menu for online music is displayed. Select "AVR Options...", then press ENTER.

2 Use $\Delta \nabla$ to select "Tone", then press ENTER.

The "Tone" screen is displayed.

3 Use $\triangleleft \triangleright$ to set the tone control function to on/off.

On:	Allow tone adjustment (bass, treble).
Off (Default):	Playback without tone adjustment.

4 Select "On" in step 3 and press ∇ to select the sound range to be adjusted.

Tips

Bass:	Adjust bass.
Treble:	Adjust treble.

5 Use $\triangleleft \triangleright$ to adjust the tone, then press ENTER.

-6 dB - +6 dB (Default : 0 dB)

- "Tone" settings are stored for each input source.
- This cannot be set when the sound mode is set to "Direct" or "Pure Direct".
- This item cannot be set when "Dynamic EQ" is set to "On". (1) p. 131)
- You cannot set this when no audio signal is input or in the menu "HDMI Audio Out" is set to "TV". (127 p. 134)

Front panel



Displaying your desired video during audio playback (Video Select)

This unit can display video from a different source on TV during audio playback. You can set this for each input source.

Supported input sources: CD* / Tuner / HEOS Music / Phono

* This cannot be set when any of the HDMI or video connectors are assigned.

Press OPTION.

An option menu screen is displayed.

- When the input source is "HEOS Music", an option menu for online music is displayed. Select "AVR Options...", then press ENTER.
- 2 Use $\Delta \nabla$ to select "Video Select", then press ENTER.

The "Video Select" screen is displayed.

3 Use $\triangleleft \triangleright$ to select the Video Select mode.

Off (Default):	Disable Video Select mode.
On:	Enable Video Select mode.

If you selected "On" in step 3, press ∇ and select Δ "Source".

Tips

5 Use $\triangleleft \triangleright$ to select the input source for video you want to play back, then press ENTER.

• "Video Select" settings are stored for each input source.

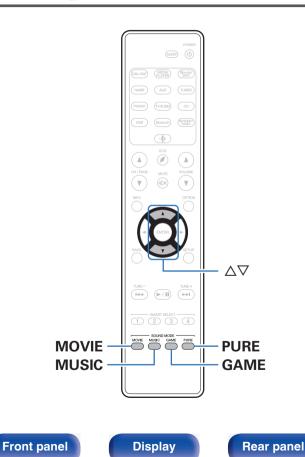








Selecting a sound mode



This unit allows you to enjoy various kinds of surround and stereo playback modes.

Disc formats such as Blu-ray Disc and DVD, as well as being supported by digital broadcasting, and even by streaming movies and music from internet-based subscription services.

Index

This unit supports playback of almost all of these multi-channel audio formats. It also supports surround playback of audio formats other than multi-channel audio such as 2-channel stereo audio.

<u>s</u>

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Remote

• For audio formats recorded on a disc, see the disc jacket or label.

Selecting a sound mode

Press MOVIE, MUSIC or GAME to select a sound mode.

MOVIE :	Switches to the sound mode suitable for enjoying movies and TV programs.				
MUSIC :	Switches to the sound mode suitable for enjoying music.				
GAME :	Switches to the sound mode suitable for enjoying games.				

- The MOVIE, MUSIC, or GAME button memorizes the last sound mode selected for its button. Pressing MOVIE, MUSIC, or GAME recalls the same sound mode as the one selected at the previous playback.
- If the content played back does not support the previously selected sound mode, the most appropriate sound mode for the content is automatically selected.
- You can also select the sound mode by pressing SOUND MODE on the main unit.

Display

Switching the sound mode

- Press MOVIE, MUSIC or GAME to display a list of the sound modes that can be selected. Each time you press MOVIE, MUSIC or GAME, the sound mode changes.
- While the list is displayed, you can also use $\Delta \nabla$ to select a sound mode.
- Try out various sound modes and enjoy sound mode in your favorite mode.

[Example] When MOVIE is pressed







Direct playback

Sound recorded in source is played as is.

Press PURE to select "Direct". Direct playback begins.

• This can also be set by pressing PURE DIRECT on the main unit.

Pure Direct playback

This mode is for playback with higher sound quality than in Direct playback mode.

Tips

This mode turns off the main unit display and analog video circuit. Doing so suppresses noise sources that affect sound quality.

Press PURE to select "Pure Direct".

The display goes dark, and Pure Direct playback begins. The PURE DIRECT indicator lights.

- In Direct and Pure Direct sound modes, the following items cannot be adjusted.
 - Tone (🖅 p. 92)
 - M-DAX (🖅 p. 127)
 - MultEQ[®] (1 p. 130)
 - Dynamic EQ (🖅 p. 131)
 - Dynamic Volume (127 p. 132)
 - Manual EQ (127 p. 132)
- This can also be set by pressing PURE DIRECT on the main unit.

NOTE

- Video signals are only output when HDMI signals are played in the Pure Direct mode.
- When the Pure Direct mode has been selected, the display turns off after about 5 seconds.

Front panel

Rear panel







Auto surround playback

This mode detects the type of input digital signal, and automatically selects the corresponding mode for playback.

Perform stereo playback when the input signal is PCM. When the input signal is Dolby Digital or DTS, the music is played back according to the respective channel number.

Press PURE to select "Auto".

Auto surround playback begins.

• This can also be set by pressing PURE DIRECT on the main unit.







Settings

Appendix

Description of sound mode types

Dolby sound mode

Sound mode type	Description			
Dolby PLII	This mode can be selected when the Dolby PLII decoder is used to play back 2-channel sources in 5.1-channel surround sound with an enveloping surround sound experience.			
Dolby Digital	This mode can be selected when playing sources recorded in Dolby Digital.			
Dolby TrueHD	This mode can be selected when playing sources recorded in Dolby TrueHD.			
Dolby Digital Plus	This mode can be selected when playing sources recorded in Dolby Digital Plus.			

DTS sound mode

Sound mode type	Description
DTS Neo:6	This mode can be selected when the DTS Neo:6 decoder is used to play back 2-channel sources in 5.1-channel surround sound. There are two playback modes: "Cinema" mode that is optimized for movie playback, "Music" mode that is optimized for music playback.
DTS Surround	This mode can be selected when playing sources recorded in DTS.
DTS 96/24	This mode can be selected when playing sources recorded in DTS 96/24.
DTS-HD	This mode can be selected when playing sources recorded in DTS-HD.
DTS Express	This mode can be selected when playing sources recorded in DTS Express.

Front panel





	Contents	\checkmark	Connections	\bigvee	Playback		Settings	\bigvee	Tips	\bigvee	Appendix	
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PCM multi-channel sound mode

Sound mode type	Description
Multi Ch In	This mode can be selected when playing multi-channel PCM sources.

Original sound mode

Sound mode type	Description		
Multi Ch Stereo	This mode is for enjoying stereo sound from all speakers.		
	This mode lets you experience an expansive surround sound effect when playing back through just the front (L/R) speakers only, and when listening with stereo headphones.		

Auto sound mode

Sound mode type	Description
	In this mode, the type of digital signal input, such as Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS, DTS-HD, PCM (multi-channel) is detected, and the playback mode switches automatically to the corresponding mode. If the input signal is analog or PCM (2-channel), stereo playback is used. For Dolby Digital or DTS, the music is played back according to the respective channel number.





Contents	\bigvee	Connec
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Stereo sound mode

Sound mode type	Description
Stereo	This mode plays 2-channel stereo audio with no additional surround sound processing.
	 Sound is output from the front left and right speakers, and subwoofer if connected.
	 When multi-channel signals are inputted, they are mixed down to 2-channel audio and are played back with no additional surround sound processing.

Direct sound mode

Sound mode type	Description
Direct	This mode plays back audio as recorded in the source.
Pure Direct	This mode plays back an even higher quality sound than the "Direct" mode. The following circuits are stopped in order to further improve sound quality. • Display indicator circuit of the main body (display will go off.)
	The analog video input/output switcher and processor is disabled.









Sound mode that can be selected for each input signal

- The following sound modes can be selected using the MOVIE, MUSIC and GAME buttons.
- Adjust the sound field effect with the menu "Surr.Parameter" to enjoy surround sound the way you like it. (127 p. 123)

Input signal	Sound mode	MOVIE button	MUSIC button	GAME button
	Stereo	0	0	0
	Dolby PLII Movie *2	0		
	Dolby PLII Music *2		0	
0 sharpel tid	Dolby PLII Game *2			0
2-channel *1	DTS Neo:6 Cinema *2	0		
	DTS Neo:6 Music *2		0	
	Multi Ch Stereo	0	0	0
	Virtual	0	0	0

*1 2-channel also includes analog input.

*2 This mode plays back 2-channel sources in 5.1-channel playback. It cannot be selected when headphones are used or when the speaker configuration is front speakers only.







	Contents Connections	Playback	Settings	Tips	Appendix
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Input signal	Sound mode	MOVIE button	MUSIC button	GAME button
Multi-channel *3	Stereo	0	0	0
Dolby Digital	Dolby Digital	0	0	0
Dolby TrueHD	Dolby TrueHD	0	0	0
Dolby Digital Plus	Dolby Digital Plus	0	0	0
DTS	DTS Surround	0	0	0
	DTS 96/24	0	0	0
	DTS-HD HI RES	0	0	0
DTS-HD / DTS Express	DTS-HD MSTR	0	0	0
	DTS Express	0	0	0
PCM multi-channel	Multi Ch In	0	0	0
	Multi Ch Stereo	0	0	0
	Virtual	0	0	0

*3 The sound mode that can be selected differs depending on the audio format of the input signal and the number of channels. For details, see "Types of input signals, and corresponding sound modes" (1) p. 213).











Shows a decoder to be used.

• A Dolby Digital Plus decoder is displayed as "DDD+".

Ð

2

② Shows the name of the input source being played back.











HDMI Control function

A recent addition to the HDMI standard is CEC (Consumer Electronics Control), which allows control signals from one device to communicate with another device via the HDMI cable connection.

Setting procedure

- Enable the HDMI Control function of this unit. Set "HDMI Control" to "On". (1) p. 136)
- 2 Turn the power on for all the devices connected by HDMI cable.
- **3** Set the HDMI Control function for all devices connected by HDMI cable.
 - Please consult the operating instructions for the connected devices to check the settings.
 - Carry out steps 2 and 3 should any of the devices be unplugged.
- 4 Switch the television input to the HDMI input connected to this unit.

- 5 Switch the input source of this unit to check that video from the player connected by HDMI is played back correctly.
- 6 When you turn the TV's power to standby, check that the power of this unit also goes to standby.



• Some functions may not operate depending on the connected TV or player. Check the owner's manual of each device for details beforehand.





Smart Menu function

This function can be used to configure the settings of this unit, select an input source and set Tuner and Internet Radio stations using the TV remote control.

- Enable the HDMI control function of this unit and the TV. (P p. 136)
- 2 Set "Smart Menu" to "On" on this unit. (IPP p. 138)

3 Select "AV Receiver" in a TV menu such as "Input"* or "Operate Connected HDMI Device"*.

The Smart Menu of this unit is displayed on the TV.

- This unit can be operated with the TV remote control while the Smart Menu is displayed.
- * The selection method differs depending on your TV.



Now Playing

Enjoy content from the input source currently selected on this unit.

Source

Switch the input of this unit.

If you select "HEOS Music" or "Tuner", you can continue to operate this unit using the TV remote control.

Sound Mode

Change the sound mode of this unit. You can select from the following three sound modes.

Surround:	Surround sound playback according to the input signal.
Stereo:	Stereo playback.
Multi Ch Stereo:	Multi-channel stereo playback.

Front panel





Contents

Setup Menu

Displays a setup menu for configuring the settings of this unit.

Smart Select

Calls up the "Smart Select" items registered to this unit.

NOTE

- If the "HDMI Control" or "Smart Menu" settings have been changed, always reset the power to connected devices after the change.
- The Smart Menu function may not work properly depending on the specifications of your TV. In this case, set "Smart Menu" to "Off". (☞ p. 138)

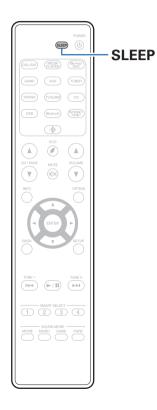
Front panel







Sleep timer function



You can have the power automatically switched to standby once a set time has elapsed. This is convenient for viewing and listening while going to sleep.









Using the sleep timer

Press SLEEP and display the time you want to set.

- The SLEEP indicator lights up on the display and the sleep timer starts.
- You can set the sleep timer in the range from 10 to 120 minutes in steps of 10 minutes.

Checking the remaining time

Press SLEEP when the sleep timer is in operation. The remaining time appears on the display.

To cancel the sleep timer

Press SLEEP to select "Off". The SLEEP indicator on the display turns off.

• The sleep timer setting is canceled when the unit switches to standby mode.

NOTE

 The sleep timer function cannot turn off the power of devices connected to this unit. To turn off the power of those connected devices, set up sleep timers on the connected devices themselves.

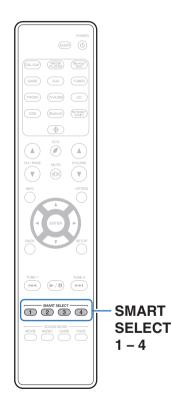
Front panel







Smart select function



Settings such as the input source, volume level and sound mode can be registered to the SMART SELECT 1 - 4 buttons.

You can simply press one of the registered SMART SELECT buttons in subsequent playbacks to switch to the group of saved settings in a batch. By saving frequently used settings at the SMART SELECT 1 - 4 buttons, you will always be able to easily call up the same playback environment.







Calling up the settings

Press SMART SELECT.

The Smart Select settings registered to the button you pressed are called up.

• The default settings for the input source are as shown below.

Button	Input source
SMART SELECT 1	CBL/SAT
SMART SELECT 2	Blu-ray/DVD
SMART SELECT 3	Media Player
SMART SELECT 4	HEOS Music

- Volume is not registered to Smart Select in the factory default settings. See "Changing the settings" to register volume to Smart Select. (© p. 111)









Changing the settings

Set the items below to the settings you want to register.

- (1) Input source (1 p. 51)
- (2) Volume (12) p. 52)
- (3) Sound mode (127 p. 94)
- ④ Audyssey (Audyssey MultEQ[®], Audyssey Dynamic EQ[®], Audyssey Dynamic Volume[®]) (27 p. 130)
- (5) " M-DAX " (😰 p. 127)
- (6) "Adjusting the volume of each channel to match the input source (Ch Level Adjust)" (Cp p. 91)
- (1) "Displaying your desired video during audio playback (Video Select)" (127 p. 93)

- Press and hold SMART SELECT while a radio station is being received is being played back with any of the following sources, the current radio station is memorized.
- Tuner / Internet Radio Station

2 Press and hold the desired SMART SELECT until "Smart* Memory" appears on the display.

The current settings will be memorized.

* is displayed the number for the SMART SELECT button you pressed.

Changing the Smart Select Name

The Smart Select name displayed on the TV screen or display of this unit can be changed to a different name.

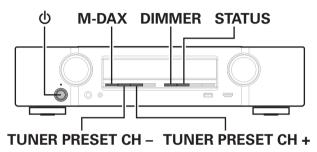
For the name change method, see "Smart Sel.Names". (P p. 172)





Panel lock function

To prevent accidental operation of this unit, you can disable operation of the buttons on the front panel.



Disabling all key button operations

- **1** Press **(b)** while you press and hold M-DAX and DIMMER with the unit in standby mode.
- 2 Use TUNER PRESET CH + or TUNER PRESET CH to select "FP/VOL LOCK On".
- **3** Press STATUS to enter the setting. All button operations except Φ are disabled.

Disabling all button operations except VOLUME

- **1** Press **(b)** while you press and hold M-DAX and DIMMER with the unit in standby mode.
- 2 Use TUNER PRESET CH + or TUNER PRESET CH to select "FP LOCK On".
- **3** Press STATUS to enter the setting.

All button operations except 0 and VOLUME are disabled.

Front panel







Canceling the Panel lock function

- **1** Press **(b)** while you press and hold M-DAX and DIMMER with the unit in standby mode.
- 2 Press TUNER PRESET CH + or TUNER PRESET CH to select "FP LOCK *Off".

(* The currently set mode.)

3 Press STATUS to enter the setting.

The Panel lock function is canceled.

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• Even when the Panel lock function is set, you can operate the unit using the remote control unit.



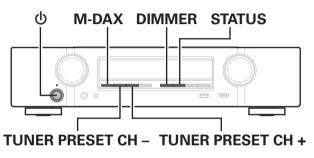




Remote lock function

When connecting an IR receiver, enable the Remote lock function. When the function is enabled, you can not perform operations with the remote control unit.

By default, this function is disabled.



Disabling the sensor function of the remote control unit

- Press Φ while you press and hold M-DAX and DIMMER with the unit in standby mode.
- 2 Use TUNER PRESET CH + or TUNER PRESET CH to select "RC LOCK On".
- **3** Press STATUS to enter the setting.

The infrared light receiving function is disabled.

Enabling the remote sensor function

- **1** Press (b) while you press and hold M-DAX and DIMMER with the unit in standby mode.
- 2 Press TUNER PRESET CH + or TUNER PRESET CH to select "RC LOCK *Off".

(* The currently set mode.)

3 Press STATUS to enter the setting.

Infrared light receiving function on the main unit is enabled.



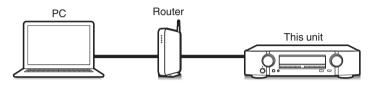






Web control function

You can control this unit from a web control screen on a web browser.





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- This unit and the PC or tablet need to be connected correctly to the network in order to use the web control function. (127 p. 46)
- Depending on the settings of your security-related software, you may not be able to access this unit from your PC. If this is the case, then change the settings of the security-related software.

Controlling the unit from a web control

- Switch the "Network Control" setting to "Always On". (@ p. 166)
- 2 Check the IP address of this unit with "Information". (© p. 162)

Information Friendly Name Connection		
DHCP IP Address MAC Address –Ethernet –Wi–Fi	On 192.168.100.19 ******-000000 ******-000000	
Checking the IP address.		

3 Start up the web browser.





For example, if the IP address of this unit is "192.168.100.19", enter "http://192.168.100.19".

,
🗲 🎯 📲 📴 http://192.168.100.19 🛯
<u>File Edit View Favorites Tools H</u> elp

5 When the top menu is displayed on the web browser, click on the menu item you want to operate.









Menu map

When using menu operations, connect this unit to a TV and operate this unit while viewing the TV.

The recommended settings are configured for this unit by default. You can customize this unit based on your existing system and your preferences.

Setting items	Detailed items	Description	Page
	Center Level	Adjusts the center channel volume to clarify the dialog for all sources.	122
	Subwoofer Level	Adjusts the subwoofer channel volume for all input sources.	122
	Surr.Parameter	Adjusts surround sound parameters.	123
Audio	M-DAX	Expands the low and high frequency components of compressed audio content such as MP3 files to enable richer audio playback.	127
	Audio Delay	Compensates for incorrect timing between video and audio.	128
	Volume	Sets the volume setting.	129
	Audyssey	Makes Audyssey MultEQ [®] , Audyssey Dynamic EQ [®] and Audyssey Dynamic Volume [®] settings.	130
	Manual EQ	Uses the graphic equalizer to adjust the tone of each speaker.	132
	HDMI Setup	Makes settings for HDMI Audio Out, HDMI Pass Through and HDMI Control settings.	134
	On Screen Disp.	Configures the on-screen display settings.	139
	4K Signal Format	Set the 4K signal format when the TV or playback device is 4K compatible.	140
Video	TV Format	Sets the video signal format to be output for the TV you are using.	141



Setting items	Detailed items	Description	Page
	Input Assign	Changes input connector assignment and the audio input mode.	142
	Source Rename	Changes the display name for input source.	145
	Hide Sources	Removes from the display input sources that are not used.	145
Inputs	Source Level	Adjusts the playback level of the audio input.	145
Speakers	Audyssey [®] Setup	The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically.	146
	Manual Setup	Sets up the speakers manually or changes Audyssey® Setup settings.	156
	Information	Displays network information.	162
	Connection	Selects whether to connect the home network to a wireless LAN or a wired LAN.	162
Network	Settings	Used for manually setting the IP address.	164
	Network Control	Enables network communication in standby power mode.	166
	Friendly Name	The "Friendly Name" is the name of this unit displayed on the network. You can change the Friendly Name according to your preferences.	166
	Diagnostics	Used to check the network connection.	167
	AirPlay	Settings for Apple AirPlay.	167

Front panel

Rear panel

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Setting items	Detailed items	Description	Page
	[When the user is signed o	ut the HEOS Account]	
	I have a HEOS Account	Selects to sign in.	168
	Create Account	Creates new HEOS Account.	168
HEOS Account	Forgot Password	If you forgot your password, we'll send you an email with instructions about how to reset it.	168
[When the user is signed in the HEOS Account]			
Signed in As Displays your HEOS Account.		Displays your HEOS Account.	168
	Change Location	Selects your location.	168
	Change Password	Changes your HEOS Account Password.	168
	Delete Account	Deletes your HEOS Account.	168
	Sign Out	Sign out of your HEOS Account.	168









Setting items	Detailed items	Description	Page
	Language	Changes the language of the display on the TV screen.	169
	ECO	Configures the ECO Mode and Auto Standby energy-saving functions.	169
	Smart Sel.Names	Changes the Smart Select Name display title to one you prefer.	172
	Front Display	Makes settings related to the display on this unit.	172
General	Firmware	Checks for the latest firmware information about updates and upgrades, updates the firmware, and sets up the notification message display.	173
	Information	Shows information about this unit settings, input signals, etc.	176
	Usage Data	Selects whether or not to send anonymous usage data to Marantz.	177
	Save & Load	Save and restore device settings by using a USB memory device.	178
	Setup Lock	Protects settings from inadvertent changes.	178
	Reset	Various settings are reset to the factory default values.	179
	Begin Setup	Performs basic installation/connections/settings from the beginning according to the guidance indicated on the TV screen.	Page 9 of the separate
	Language Select	Sets individual setting items according to the guidance displayed on the TV screen.	manual "Quick Start
Setup Assistant	Speaker Setup		Guide"
	Sp.Calibration		
	Network Setup		
	TV Audio Connect		
	Input Setup		
	Mobile Apps		



AV⊄D ENTER BACK	 Menu operations 1 Press SETUP. The menu is displayed on the TV screen. 2 Use △▽ ▷ to select the menu to be set or operated, then press ENTER. 3 Use ⊲ ▷ to change to desired setting. 4 Press ENTER to enter the setting. To return to the previous item, press BACK. Exiting the menu, press SETUP while the menu is displayed. The menu display disappears.



Audio

Make audio-related settings.

Center Level

Adjusts the center channel volume to clarify the dialog for all sources.

Center

Adjusts the volume output from the center channel.

-12.0 dB - +12.0 dB (Default: 0.0 dB)

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 This setting is also reflected in the center channel level in the "Speakers" -"Levels" menu settings. (☞ p. 159)

Subwoofer Level

Adjusts the subwoofer channel volume for all input sources.

Subwoofer

Adjusts the volume level for the subwoofer.

-12.0 dB - +12.0 dB (Default: 0.0 dB)

 This setting is also reflected in the subwoofer channel level in the "Speakers" -"Levels" menu settings. (127 p. 159)

Front panel









Surr.Parameter

You can adjust the surround audio sound field effects to match your preferences.

The items (parameters) that can be adjusted depend on the signal being input and the currently set sound mode. For details on the adjustable parameters, see "Sound modes and surround parameters" (127 p. 210).

- Some setting items cannot be set while playback is stopped. Make the settings during playback.
- "Surr.Parameter" settings are stored for each sound mode.

Cinema EQ

Gently softens the upper treble range of movie soundtracks to reduce possible harshness and improve clarity.

On:	"Cinema EQ" is used.
Off (Default):	"Cinema EQ" is not used.

Loudness Mngmt

This sets whether to output as specified in "Dynamic Comp." or output directly without compressing the dynamic range of audio recorded in the disc.

On (Default):	Outputs are given based on enabling the settings made in "Dynamic Comp." and Dialogue normalization function.
Off:	"Dynamic Comp." settings and Dialogue normalization are disabled, and the signals on the disc are output as is.

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• "Loudness Mngmt" can be set when Dolby TrueHD signal is input.





Dynamic Comp.

Compress dynamic range (difference between loud and soft sounds).

Auto:	Automatic dynamic range compression on/off control according to source.
Low / Medium / High:	These set the compression level.
Off:	Dynamic range compression is always off.

- "Dynamic Comp." can be set when Dolby Digital, Dolby Digital Plus, Dolby TrueHD or DTS signal is input.
- The default setting is "Off". When the input signal is the Dolby TrueHD source, the default setting is "Auto".
- "Auto" cannot be set when inputting a DTS signal.

Low Frequency

Adjust the low frequency effects level (LFE).

-10 dB - 0 dB (Default: 0 dB)

• For proper playback of the different sources, we recommend setting to the values below.

- Dolby Digital sources: 0 dB
- DTS movie sources: 0 dB
- DTS music sources: -10 dB









Center Image

Distributes the dialogue output from the center channel to the front left and right channels and widens the sound image in the front.

0.0 - 1.0 (Default : 0.3)

- You can set this when the sound mode is DTS Neo:6 in the "Music" mode.
- The smaller the value, the more dialogue is concentrated on the center channel. The larger the value, the more dialogue is distributed to front left and right channels, and the more the sound image widens in the front.

Panorama

The front sound field is expanded further towards the back to create a seamlessly inclusive sound impression.

On:	Use "Panorama".
Off (Default):	Do not use "Panorama".

• You can set this when the sound mode is Dolby PLII in the "Music" mode.

Dimension

Shift sound image center to front or rear to adjust playback balance.

0-6 (Default:3)

- You can set this when the sound mode is Dolby PLII in the "Music" mode.
- As you set a smaller number, the surround sound field shifts backward; as you set a larger number, the surround sound field shifts forward.

Center Width

Distributes the dialogue output from the center channel to left and right channels and widens the sound image in the front.

0 – 7 (Default : 3)

- You can set this when the sound mode is Dolby PLII in the "Music" mode.
- The smaller the value, the more dialogue is concentrated on the center channel. The larger the value, the more dialogue is distributed to front left and right channels, and the more the sound image widens in the front.





Contents	Connections Playback	 Settings	Tips	\frown	Appendix	\sum
Subwoofer						
Turn subwoofer out	tput on and off.					
On (Default):	The subwoofer is used.					
Off:	The subwoofer is not used.					

- You can set this when the sound mode is "Direct" or "Stereo" and in the menu "Subwoofer Mode" is set to "LFE+Main". (27 p. 161)

Set Defaults

The "Surr.Parameter" settings are returned to the default settings.









M-DAX

Compressed audio formats such as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The "M-DAX" function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also restores the original bass characteristics for a rich and expanded tonal range.

Mode

High:	Optimized mode for compressed sources with very weak highs (64 kbps and under).
Medium:	Apply suitable bass and treble boost for all compressed sources (96 kbps and under).
Low:	Optimized mode for compressed sources with normal highs (96 kbps and over).
Off:	Do not use "M-DAX".

- The M-DAX indicator lights.
- This item can be set with analog signals or PCM signal (Sample Rate = 44.1/48 kHz) is input.
- This item default setting for "HEOS Music" is "Low". All others are set to "Off".
- This cannot be set when the sound mode is set to "Direct" or "Pure Direct".
- "M-DAX" settings are stored for each input source.
- This can also be set by pressing M-DAX on the main unit.







Audio Delay

Compensates for incorrect timing between video and audio.

• "Audio Delay" settings are stored for each input source.

Auto Lip Sync

Automatically adjusts the audio processing time to compensate for delays in audio/video timing from TV compatible with Auto Lip Sync.

On (Default):	Correct automatically.
Off:	Do not correct automatically.

 Automatic correction may not be performed depending on the specifications of your TV even when "Auto Lip Sync" is set to "On".

Adjust

The timing mismatch between the picture and sound needs to be corrected manually.

0 ms - 500 ms (Default : 0 ms)

• You can also finely adjust the delay correction value set by "Auto Lip Sync".







Volume

Set the volume setting.

Scale

Set how volume is displayed.

0 - 98 (Default):	Display in the range 0 (Min) to 98.
-79.5 dB - 18.0 dB:	DisplaydB (Min), in the range -79.5 dB to 18.0 dB.

Limit

Make a setting for maximum volume.

60 (-20 dB) / 70 (-10 dB) / 80 (0 dB)

Off (Default)

- The dB value is displayed when the "Scale" setting is " –79.5 dB – 18.0 dB". (127 p. 129)

Power On Level

Define the volume setting that is active when the power is turned on.

Last (Default) :	Use the memorized setting from the last session.
Mute:	Always use the muting on condition when power is turned on.
1 – 98 (–79 dB – 18 dB) :	The volume is adjusted to the set level.

• The dB value is displayed when the "Scale" setting is " –79.5 dB – 18.0 dB". (\mathcal{C} p. 129)

Mute Level

Set the amount of attenuation when muting is on.

Full (Default):	The sound is muted entirely.
–40 dB :	The sound is attenuated by 40 dB down.
–20 dB :	The sound is attenuated by 20 dB down.







Audyssey®

Set Audyssey MultEQ[®], Audyssey Dynamic EQ[®] and Audyssey Dynamic Volume[®]. These can be selected after Audyssey[®] Setup has been performed.

For additional information on Audyssey technology, please see "Explanation of terms" (27 p. 216).

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- "MultEQ[®]", "Dynamic EQ", "Ref.Lev.Offset" and "Dynamic Volume" settings are stored for each input source.
- When the sound mode is in the "Direct" or "Pure Direct" mode, "MultEQ[®]", "Dynamic EQ" and "Dynamic Volume" settings cannot be configured.

MultEQ[®]

MultEQ[®] compensates for both time and frequency characteristics of the listening area based on "Audyssey[®] Setup" measurement results. Selection is done from three types of compensation curves. We recommend the "Reference" setting.

Reference (Default):	Selects the default calibrated setting with a slight roll off at high frequencies, which is optimized for movies.
L/R Bypass:	Selects the reference setting, but bypasses MultEQ [®] on the front left and right speakers.
Flat:	Selects the calibrated setting which is optimized for small rooms where your listening position is closer to the speakers.
Off:	Do not use "MultEQ®".

• When using headphones, "MultEQ®" is automatically set to "Off".

Front panel





Dynamic EQ

Solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics.

Works with MultEQ®.

On (Default):	Use "Dynamic EQ".
Off:	Do not use "Dynamic EQ".

 When the menu "Dynamic EQ" setting is "On", it is not possible to do "Tone" adjustment. (Cp p. 92)

Ref.Lev.Offset

Audyssey Dynamic EQ[®] is referenced to the standard film mix level. It makes adjustments to maintain the reference response and surround envelopment when the volume is turned down from 0 dB. However, film reference level is not always used in music or other non-film content. Dynamic EQ Reference Level Offset provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard. Recommended setting levels for content are shown below.

0 dB (Film Reference) (Default):	Optimized for content such as movies.
5 dB :	Select this setting for content that has a very wide dynamic range, such as classical music.
10 dB :	Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference.
15 dB :	Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.

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Remote

• Setting is enabled when "Dynamic EQ" is "On". (I p. 131)

Front panel



Dynamic Volume

Solves the problem of large variations in volume level between TV, movies and other content (between quiet passages and loud passages, etc.) by automatically adjusting to the user's preferred volume setting.

Works with MultEQ[®].

Heavy:	Most adjustment to softest and loudest sounds.
Medium:	Medium adjustment to loudest and softest sound.
Light:	Least adjustment to loudest and softest sounds.
Off (Default):	Do not use "Dynamic Volume".

 If "Dynamic Volume" is set to "Yes" in "Audyssey[®] Setup", the setting is automatically changed to "Medium". (127 p. 146)

Manual EQ

Uses the graphic equalizer to adjust the tone of each speaker.

- Speakers for which "Manual EQ" can be set differ according to the sound mode.
- This can be set when "MultEQ[®]" setting is "Off". (@ p. 130)
- This cannot be set when the sound mode is set to "Direct" or "Pure Direct".
- If you are using headphones, you can set the equalizer for headphones. ((\mathfrak{T} p. 132)

Manual EQ / Headphone EQ

Set whether to use the graphic equalizer or not.

On:	Use the graphic equalizer.
Off (Default):	Do not use the graphic equalizer.

• "Headphone EQ" is set in the menu when headphones are used.





Speaker Select

Select whether to adjust tones for individual speakers or for all speakers.

All:	Adjust all speaker tones together.
Left/Right (Default) :	Adjust the left and right speaker tones together.
Each:	Adjust the tone for each speaker.

Adjust EQ

Adjust tonal balance for each frequency band.

- 1. Select the speaker.
- Select the adjustment frequency band.
 63 Hz / 125 Hz / 250 Hz / 500 Hz / 1 kHz / 2 kHz / 4 kHz / 8 kHz / 16 kHz
- 3. Adjust the level.
 - -20.0 dB +6.0 dB (Default : 0.0 dB)

Curve Copy

Copy the Flat correction curve created in Audyssey® Setup.

- "Curve Copy" is displayed after Audyssey® Setup has been performed.
- "Curve Copy" cannot be used when using headphones.

Set Defaults

The "Manual EQ" settings are returned to the default settings.









Video

Make video-related settings.

HDMI Setup

Make settings for HDMI Audio Out, HDMI Pass Through and HDMI Control settings.

NOTE

 When "HDMI PassThrough" and "HDMI Control" is set to "On", it consumes more standby power. ("HDMI PassThrough" (2 p. 135), "HDMI Control" (2 p. 136)) If you are not using this unit for an extended period, it is recommended that you unplug the power cord from the power outlet.

HDMI Audio Out

Select HDMI audio output device.

AVR (Default):	Play back through speakers connected to the unit.
TV:	Play back through TV connected to the unit.

- When the HDMI Control function is activated, priority is given to the TV audio setting. (127 p. 104)
- When the power of this unit is on and "HDMI Audio Out" is set to "TV", audio is output as 2-channel from the HDMI OUT connector.

Front panel





HDMI PassThrough

Selects how this unit will transmit HDMI signals to the HDMI output in standby power mode.

On (Default):	Transmits the selected HDMI input through this unit's HDMI output when this unit is in standby power mode.
Off:	No HDMI signals are transmitted through this unit's HDMI output in standby power mode.

Pass Source

Sets the HDMI connector that inputs HDMI signals when in standby.

Last:	The most recently used input source will go into standby mode.
CBL/SAT / Blu-ray/DVD / Game / AUX / Media Player (Default : CBL/SAT):	Pass through the selected input source.

"Pass Source" can be set when "HDMI PassThrough" is set to "On" or "HDMI Control" is set to "On". ("HDMI PassThrough " (127 p. 135), "HDMI Control " (127 p. 136))

RC Select

Set whether to allow this unit to be turned on by the input source select button on the remote control when this unit is on standby.

Power On+Source (Default):	The power of this unit is turned on and the input source changes.
Source Only:	The HDMI input source changes while this unit is on standby. The power display of this unit blinks when the input source select button of the remote control is pressed.

 "RC Select" can be set when "HDMI Control" is set to "On" or "HDMI PassThrough" is set to "On". ("HDMI PassThrough" (P 135), "HDMI Control" (P 136))





HDMI Control

Contents

You can link operations with devices connected to HDMI and compatible with HDMI Control.

On:	Use HDMI Control function.
Off (Default):	Do not use HDMI Control function.

- Please consult the operating instructions for each connected device to check the settings.
- Refer to "HDMI Control function" for more information about the HDMI Control function. (127 p. 104)

NOTE

• If the "HDMI Control" settings have been changed, always reset the power to connected devices after the change.

Settings

On the TV connected to the HDMI MONITOR connector, set whether to receive sound from the TV via HDMI.

Tips

On:	Use ARC function.
Off (Default):	Do not use ARC function.

- You can adjust the volume of this unit using the TV remote control.
- If using this function, use a TV compatible with ARC (Audio Return Channel) and enable the HDMI Control function of the TV.
- When "HDMI Control" is set to "On", the "ARC" settings automatically switch "On". (127 p. 136)



- If the "ARC" settings have been changed, always reset the power to connected devices after the change.
- Using an eARC function-compatible television enables audio playback from the speaker connected to this unit, regardless of "ARC" settings in the menu.

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Remote



TV Audio Switching

Sets automatic switching to the "TV Audio" input when a TV connected via HDMI sends an appropriate CEC control command to this unit.

On (Default):	Select the "TV Audio" input automatically when receiving a command from the TV.
Off:	Do not select the "TV Audio" input automatically when receiving a command from the TV.

"TV Audio Switching" can be set when "HDMI Control" is set to "On".
 (12) p. 136)

Pow.Off Control

Links the power standby of this unit to external devices.

All (Default):	If power to a connected TV is turned off independently of the input source, power to this unit is automatically set to standby.
Video:	With an input source being selected that is assigned either "HDMI" or "VIDEO", when you turn the power of the TV off, power to this unit is automatically set to standby. (() 143)
Off:	This unit does not link with power to a TV.

• "Pow.Off Control" can be set when "HDMI Control" is set to "On". (IP p. 136)









Power Saving

If "TV Speaker" is set as the audio output setting of your TV, this unit is automatically set to standby mode to reduce power consumption. This function is activated in the following cases.

- . When "TV Audio" is selected as the input source of this unit
- · When playing content from a device connected by HDMI

On:	Use Power Saving function.
Off (Default) :	Do not use Power Saving function.

• "Power Saving" can be set when "HDMI Control" is set to "On". (IP p. 136)

Smart Menu

This function can be used to configure the settings of this unit, select an input source and set Tuner and Internet Radio stations using the TV remote control.

On:	Use Smart Menu function.
Off:	Do not use Smart Menu function.

• "Smart Menu" can be set when "HDMI Control" is set to "On". (127 p. 136)

NOTE

- If the "Smart Menu" settings have been changed, always reset the power to connected devices after the change.
- The Smart Menu function may not work properly depending on the specifications of your TV. In this case, set "Smart Menu" to "Off".









On Screen Disp.

Select the on-screen display user interface preferences.

Volume

Sets where to display the volume level.

Bottom (Default):	Display at the bottom.
Тор:	Display at the top.
Off:	Turn display off.

• When the master volume display is hard to see when superimposed text (closed captioning) or movie subtitles are present, set to "Top".

Info

Displays status of operation temporarily when the input source is switched.

On (Default):	Turn display on.	
Off:	Turn display off.	

Now Playing

Sets the display time for the playback display when the input source is "HEOS Music" or "Tuner".

Always On (Default) :	Show display continuously.
Auto Off:	Show display for 30 seconds after operation.







4K Signal Format

Set the 4K signal format to be played back by this unit when the TV or playback device connected to this unit is HDMI 4K (60Hz/50Hz) signal compatible.

4K Signal Format

Set the format of the 4K signal played back by this unit.

Standard (Default):	Select if your TV and playback devices support standard 4K 60p 4:2:0 8 bit video signals.
Enhanced:	Select if your TV, playback devices, and cables support high quality 4K 60p 4:4:4, 4:2:2 or 4K 60p 4:2:0 10 bit video signals.

[Relation between the "4K Signal Format" setting and supported resolutions]

Tips

Support	Color	Color Pixel		4K Signal Format	
Support Resolution	Space	Depth	Enhanced	Standard (Default)	
4K 24p, 4K	RGB /	8 bit	\checkmark	\checkmark	
30p, 4K 25p	YCbCr 4:4:4	10,12 bit	\checkmark	-	
	YCbCr 4:2:2	12 bit	\checkmark	\checkmark	
4K 60p, 4K 50p	YCbCr 4:2:0	8 bit	\checkmark	\checkmark	
		10,12 bit	\checkmark	-	
	RGB / YCbCr 4:4:4	8 bit	\checkmark	_	
	YCbCr 4:2:2	12 bit	\checkmark	-	







- When setting this to "Enhanced", we recommend using a "Premium High Speed HDMI Cable" or "Premium High Speed HDMI Cable with Ethernet" that has an "HDMI Premium Certified Cable" label attached to the product package.
- When this setting is "Enhanced", configure the television or playback device settings to match this setting.
- When this setting is "Enhanced", video may not be output correctly depending on the connected playback device or HDMI cable. In this case, change this setting to "Standard".
- "Custom" is displayed for the setting item if our service engineers or custom installers has configured the HDMI signal format for this unit.
- "4K Signal Format" can also be set by the following procedure. However, the menu screen is not displayed. Watch the display while configuring the setting.
- 1. Press and hold the main unit's TUNER PRESET CH + and STATUS at the same time for at least 3 seconds.

"V.Format:<NTSC>" appears on the display.

- 2. Press the main unit's DIMMER.
 - "4K :<Standard>" appears on the display.
- 3. Use the main unit's TUNER PRESET CH + or TUNER PRESET CH and select the 4K Signal Format.
- 4. Press the main unit's STATUS to complete the setting.

TV Format

Set the video signal format to be output for the TV you are using.

Format

NTSC (Default):	Select NTSC output.
PAL:	Select PAL output.

- "Format" can also be set by the following procedure. However, the menu screen is not displayed. Following the display content to make the setting.
 - 1. Press and hold the main unit's TUNER PRESET CH + and STATUS at the same time for at least 3 seconds.

"V.Format:<NTSC>" appears on the display.

- 2. Use the main unit's TUNER PRESET CH + or TUNER PRESET CH and set the video signal format.
- 3. Press the main unit's STATUS to complete the setting.

NOTE

• When a format other than the video format of the connected TV is set, the picture will not be displayed properly.





Inputs

Perform settings related to input source playback.

You do not have to change the settings to use the unit. Make settings when needed.

Input Assign

By making connections as indicated by the input sources printed on the audio/video input connectors of this unit, you can just press one of the input source select buttons to easily play back audio or video from a connected device.

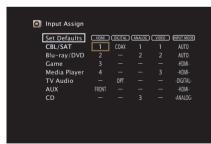
Please change the assignment of the HDMI input connector, digital audio input connector, analog audio input connector and video input connector when connecting an input source that differs from that printed to the audio/ video input connectors of this unit.

Sets the audio input mode for each "INPUT MODE" source. "AUTO" is normally recommended for this setting. This automatically detects and plays signal input to this unit prioritized in the following order: HDMI > DIGITAL > ANALOG.

- 6		1	
	1		2
- 19	~		J

• By default, each item is set as follows.

Input source	Input connector			INPUT	
input source	HDMI	DIGITAL	ANALOG	VIDEO	MODE
CBL/SAT	1	COAX	1	1	AUTO
Blu-ray/DVD	2	-	2	2	AUTO
Game	3	-	-	-	- HDMI -
Media Player	4	-	-	3	- HDMI -
TV Audio	-	OPT	-	-	-DIGITAL-
AUX	FRONT	-	-	-	- HDMI -
CD	_	-	3	_	-ANALOG-



Front panel



TV set top box/satellite users please note

When using the digital audio output on a TV/satellite box:

To play the video signal assigned to "HDMI" combined with the audio signal assigned at "Input Assign" - "DIGITAL", you will also need to select "DIGITAL" in the "INPUT MODE".

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• The same input connector can be assigned to multiple input sources. For example, assign the same HDMI input connector to multiple sources to use each input source in combination with analog or digital audio as you prefer. In such cases, set the audio connector for playback in "INPUT MODE". (This feature will be supported via firmware update.)

I HDMI

Set this to change the HDMI input connectors assigned to the input sources.

1/2/3/4/5/ FRONT:	Assign an HDMI input connector to the selected input source.
-:	Do not assign an HDMI input connector to the selected input source.

- When "HDMI Control" or "ARC" is set to "On" in the menu, "HDMI" cannot be assigned to "TV Audio". (I p. 136)
- The eARC function does not operate when "HDMI" is set as the "TV Audio" input source.

DIGITAL

Set this to change the digital audio input connectors assigned to the input sources.

COAX (Coaxial) / OPT (Optical):	Assign a digital audio input connector to the selected input source.
-:	Do not assign a digital audio input connector to the selected input source.

Set this to change the analog audio input connectors assigned to the input sources.

1/2/3:	Assign a analog audio input connector to the selected input source.
-:	Do not assign a analog audio input connector to the selected input source.

Set this to change the composite video input connectors assigned to the input sources.

1 / 2 / 3:	Assign the video input connector to the selected input source.
-:	Do not assign a video input connector to the selected input source.





INPUT MODE

Set the audio input modes for each input source.

It is normally recommended to set the audio input mode to "AUTO".

AUTO (Default):	Automatically detect input signal and perform playback.
HDMI:	Play only signals from HDMI input.
DIGITAL:	Play only signals from digital audio input.
ANALOG:	Play only signals from analog audio input.

- When digital signals are properly input, the DG indicator lights on the display. If the DG indicator does not light, check "Input Assign" and the connections. (CP p. 142)
- If "HDMI Control" is set to "On" and a TV compatible with the ARC is connected via the HDMI MONITOR connectors, the input mode whose input source is "TV Audio" is fixed to ARC.
- When an eARC function-compatible television is connected to the HDMI MONITOR connector, the input mode whose input source is "TV Audio" is fixed to eARC.

Set Defaults

The "Input Assign" settings are returned to the default settings.

Front panel







Source Rename

- Changes the display name of the input source.
 Once changed, the name is displayed on the display and menu screens of this unit.
- If the device name can be acquired from a connected HDMI device, the display name is changed automatically.

Use this function to change names as needed when the device you are using differs from the input source on this unit. (This feature will be supported via firmware update.)

CBL/SAT / Blu-ray/DVD / Game / Media Player / TV Audio / AUX / CD / Phono: Set Defaults: The "Source Rename" settings are returned to the default settings.

• Up to 16 characters can be input.

Hide Sources

Remove from the display input sources that are not used.

Show (Default) :	Use this source.
Hide:	Do not use this source.

Source Level

This function corrects the playback level of the selected input source's audio input.

Make this setting if there are differences in the input volume levels between the different sources.

-12 dB - +12 dB (Default : 0 dB)

• "Source Level" settings are stored for each input source.









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Tips

The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically. This is called "Audyssey® Setup".

You do not have to perform Audyssev[®] Setup when you have already performed "Sp.Calibration" in "Setup Assistant".

To set up the speakers manually, use "Manual Setup" on the menu. (127 p. 156)

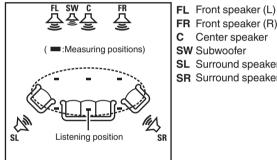
Audyssey[®] Setup

To perform measurement, place the Sound calibration microphone in multiple locations all around the listening area. For best results, we recommend you measure in six positions, as shown in the illustration.

When measuring the second and subsequent positions, install the Sound calibration microphone within 2 ft (60 cm) of the first measurement position (main listening position).



 If you perform Audyssey[®] Setup, Audyssey MultEQ[®], Audyssey Dynamic EQ[®] and Audyssey Dynamic Volume[®] functions are enabled. (@p. 130)



FR Front speaker (R) Center speaker SW Subwoofer SL Surround speaker (L) SR Surround speaker (R)

Front panel







About the main listening position

The main listening position is the position where listeners would normally sit or where one would normally sit alone within the listening environment. Before starting Audyssey[®] Setup, place the Sound calibration microphone in the main listening position.

Audyssey MultEQ $^{\otimes}$ uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

NOTE

- Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows and turn off the power on electronic devices (radios, air conditioners, fluorescent lights, etc.). The measurements could be affected by the sounds emitted by such devices.
- During the measurement process, place cell phones outside the listening room. Cell phone signals could disrupt the measurements.
- Do not stand between the speakers and Sound calibration microphone or allow obstacles in the path while the measurements are being made. Also, install the Sound calibration microphone at least 20 inches (50 cm) away from the wall.
 Failure to do so will result in inaccurate readings.
- During the measurement process, audible test tones will come from the speakers and subwoofer(s), but this is part of normal operation. If there is background noise in the room, these test signals will increase in volume.
- Operating VOLUME ▲ ▼ on the remote control unit or VOLUME on the main unit during the measurements will cancel the measurements.
- Measurement cannot be performed when headphones are connected. Unplug the headphones before performing Audyssey® Setup.



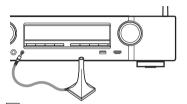


Contents Connections Playback		Settings Tips Appendix
Procedure for speaker settings (Audyssey [®] Setup)	1	Attach the Sound calibration microphone to the supplied microphone stand or own tripod and install it at the main listening position.
Preparation)	When installing the Sound calibration microphone, point the tip of the microphone toward the ceiling and adjust the height to match the height of the ears of a listener in a seated position.
Measurement) 2	If using a subwoofer capable of the following adjustments, set up the subwoofer as shown below.
Calculation & Store)	When using a subwoofer with a direct mode Set the direct mode to "On" and disable the volume adjustment and crossover frequency setting.
↓		When using a subwoofer without a direct mode
Check)	Make the following settings: • Volume : 12 o'clock position • Crossover frequency : Maximum/Highest Frequency
Finish)	Low pass filter : OffStandby mode : Off



5

3 Connect the Sound calibration microphone to the SETUP MIC jack of this unit.



When the Sound calibration microphone is connected, the following screen is displayed.

💍 Audyssey Setup	
Your AV receiver can automat acoustics of your room then o speakers using the included n	optimize your
and microphone stand.	
Back	Next

4 Select "Next", then press ENTER.

Select "Start", then press ENTER.

Audyssey® Setup can also make the following settings.

Channel Select

If channels that are not to be used are set in advance, measurement for the set channels is skipped, and measuring time can be reduced.









Playback

- 6 Follow the instructions on the screen display and press "Next" to proceed further.
 - When the following screen is displayed, select "Begin Test" and then press ENTER.

Start the measurement of the first position.



• Measurement requires several minutes.

NOTE

Contents

- If "Caution!" is displayed on TV screen:
 - Go to "Error messages" (EP p. 154). Check any related items, and perform the necessary procedures.

8 When the detected speaker is displayed, select "Next" and then press ENTER.







9 Move the Sound calibration microphone to position 2, select "Continue", then press ENTER.

The measurement of the second position starts. Measurements can be made in up to six positions.



□ Stopping Audyssey[®] Setup

- (1) Press BACK to display the popup screen.
- $\overline{(2)}$ Press \triangleleft to select "Yes", then press ENTER.

10 Repeat step 9, measuring positions 3 to 6.

• To skip measuring the fourth and subsequent listening position, press ⊲ to select "Complete" and press ENTER to proceed to step 12.

Select "Continue", then press ENTER.



Start the analysis and storage of the measurement results.

· Analysis takes several minutes to complete.

The more speakers and measurement positions that there are, the more time it takes to perform the analysis.

NOTE

• When the measurement results are being saved, make sure the power is not turned off.





12 Perform the settings for Audyssey Dynamic EQ[®] and Audyssey Dynamic Volume[®].

The following screen is displayed during the analysis. Configure the settings as preferred.

Audyssey Setup
and surround sound at low volumes letting you enjoy late-night movies and television.
Turn on Dynamic EQ? Yes No
Analyzing room data 0%
Audyssey Setup Construction Audyssey Dynamic Volume automatically adjusts volume to deliver the perfect levels for day or night listening.
Turn on Dynamic Volume? Yes No
Analyzing room data 50%

• Dynamic EQ corrects the frequency response in consideration of the audio characteristics of the room and human hearing ability so that sound can be heard even at low volume.

This is recommended when using the unit with the volume turned down, e.g. when enjoying a movie or TV program in the middle of the night.

 Dynamic Volume adjusts the output volume to the optimal level while constantly monitoring the level of the audio input to the unit. Optimal volume control is performed automatically without any loss in the dynamism and clarity of the sound when, for example, the volume suddenly increases for commercials shown during television programs.

Front panel





13 When the analysis and storage ends, unplug the Sound calibration microphone from the SETUP MIC jack on the main unit and then press "Next".



14 Select "Details" and press ENTER to verify the measurement results.

• Subwoofers may measure a greater reported distance than the actual distance due to added electrical delay common in subwoofers.

NOTE

 Do not change the speaker connection or subwoofer volume after Audyssey[®] Setup. If these are changed, run Audyssey[®] Setup again in order to configure the optimum equalizer settings.









Error messages

An error message is displayed if Audyssey[®] Setup could not be completed due to speaker placement, the measurement environment, etc. If an error message is displayed, check the relevant items and perform the necessary measures. Be sure to turn off the power before checking speaker connections.

Examples	Error details	Measures
No speakers found.	 Sound calibration microphone is not detected. 	 Connect the included Sound calibration microphone to the SETUP MIC jack of this unit.
	 Not all speakers could be detected. 	Check the speaker connections.
Ambient noise is too high or level is too	There is too much noise in the room.	• Either turn off any device generating noise or move it away.
low		Perform again when the surroundings are quieter.
	Speaker or subwoofer sound is too low.	• Check the speaker installation and the direction in which the speakers are facing.
		Adjust the subwoofer's volume.
Front R : None	 The displayed speaker could not be detected. 	Check the connections of the displayed speaker.
Front R : Phase	• The displayed speaker is connected with the	Check the polarity of the displayed speaker.
	polarity reversed.	• For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure the connection is correct, press ▷ to select "Ignore", then press ENTER.



Retrieving Audyssey® Setup settings

If you set "Restore..." to "Restore", you can return to Audyssey[®] Setup measurement result (value calculated at the start by MultEQ[®]) even when you have changed each setting manually.











Manual Setup

Perform when setting the speakers manually or when changing settings made in Audyssey[®] Setup.

- If you add or remove a speaker after performing Audyssey[®] Setup, you will no longer be able to select Audyssey MultEQ[®], Audyssey Dynamic EQ[®] or Audyssey Dynamic Volume[®]. (127 p. 130)
- "Manual Setup" can be used without changing the settings. Please set if necessary.

Speaker Config.

Select whether or not speakers are present, playback capacity for low bass frequencies and speaker size.

Tips

Front

Set the front speaker size.

Large (Default):	Use a large speaker that can adequately play back very low bass frequencies.
Small:	Use a small speaker that has inadequate playback capacity for very low bass frequencies.

- When "Subwoofer" is set to "No", "Front" is automatically set to "Large".
- When "Front" is set to "Small", you cannot set speakers other than "Front" to "Large".

Front panel



Center

Set the presence and size of the center speaker.

Large:	Use a large speaker that can adequately play back very low bass frequencies.
Small (Default):	Use a small speaker that has inadequate playback capacity for very low bass frequencies.
None:	Select when a center speaker is not connected.

Subwoofer

Set the presence of a subwoofer.

Yes (Default):	Use a subwoofer.
No:	Select when a subwoofer is not connected.

 When "Subwoofer" is set to "No" and you set "Front" to "Small", "Subwoofer" is automatically set to "Yes".

Surround

Set the presence and size of the surround speakers.

Large:	Use a large speaker that can adequately play back very low bass frequencies.
Small (Default):	Use a small speaker that has inadequate playback capacity for very low bass frequencies.
None:	Select when the surround speakers are not connected.









Connections

Distances

Set distance from listening position to speakers.

Measure beforehand the distance from the listening position to each speaker.

Unit

Set the unit of distance.

Feet (Default)

Meters

Step

Set the minimum variable width of the distance.

1 ft / 0.1 ft (Default: 1 ft)

0.1 m / 0.01 m

Set the distance

0.0 ft - 60.0 ft / 0.00 m - 18.00 m

 The speakers that can be selected differ depending on the "Speaker Config." settings. (127 p. 156)

 Default settings: Front L / Front R / Center / Subwoofer: 12.0 ft (3.60 m) Speakers other than the above: 10.0 ft (3.00 m)

• Set the difference in the distance between the speakers to less than 20.0 ft (6.00 m).

Set Defaults

The "Distances" settings are returned to the default settings.









Levels

Set the volume of the test tone to be the same at the listening position when it is output from each speaker.

Test Tone Start

A test tone is output from the selected speaker.

While listening to the test tone, adjust the volume output from the selected speaker.

-12.0 dB - +12.0 dB (Default : 0.0 dB)

- The set "Levels" are reflected in all sound modes.
- If you wish to adjust the channel level for each input source, carry out the settings in "Ch Level Adjust" (CP p. 91).
- When headphones are connected to the PHONES connector on this unit, you cannot set "Levels".

Set Defaults

The "Levels" settings are returned to the default settings.





Crossovers

Set in accordance with the lower limit frequency of the base frequencies that can be played back through each speaker. See the speaker manual for information concerning speaker crossover frequency.

Speaker Select

Selects how to set the crossover frequency.

All (Default):	Sets the same crossover frequency for all speakers.
Individual:	Selects the crossover points for each speaker individually.

Set the crossover frequency

40 Hz / 60 Hz / 80 Hz / 90 Hz / 100 Hz / 110 Hz / 120 Hz / 150 Hz / 200 Hz / 250 Hz (Default: 80 Hz)

- "Crossovers" can be set when the "Subwoofer Mode" setting is "LFE+Main", or when you have a speaker that is set to "Small". (127 p. 161)
- The default crossover frequency is "80 Hz", which will work best with the widest variety of speakers. We recommend setting to a higher frequency that the crossover frequency when small speakers are used. For example, set to "250 Hz" when the frequency range of the speakers is 250 Hz – 20 kHz.
- Sound below the crossover frequency is cut off from the output of the speakers set in "Small". This cut off bass frequency is output from the subwoofer or front speakers.
- The speakers that can be set when "Individual" is selected differ depending on to the "Subwoofer Mode" setting. (127 p. 161)
 - When "LFE" is selected, speakers set to "Small" at "Speaker Config." can be set. If the speakers are set to "Large", "Full Band" is displayed and the setting cannot be made. (Pp p. 156)
 - When "LFE+Main" is selected, speakers can be set regardless of the "Speaker Config." setting. (127 p. 156)

Front panel

Bass

Set subwoofer and LFE signal range playback.

Subwoofer Mode

Select low range signals to be reproduced by subwoofer.

LFE (Default):	The low range signal of the channel set to "Small" speaker size is added to the LFE signal output from the subwoofer.
LFE+Main:	The low range signal of all channels is added to the LFE signal output from the subwoofer.

- "Subwoofer Mode" can be set when "Speaker Config." "Subwoofer" on the menu is set to other than "No". (127 p. 157)
- Play music or a movie source and select the mode offering the strongest bass.
- If "Speaker Config." "Front" and "Center" are set to "Large", and "Subwoofer Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected sound mode. (127 p. 156) Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer.

LPF for LFE

Set LFE signal playback range. Set this when you want to change the playback frequency (low pass filter point) of the subwoofer.

80 Hz / 90 Hz / 100 Hz / 110 Hz / 120 Hz / 150 Hz / 200 Hz / 250 Hz (Default: 120 Hz)







Network

To use this unit by connecting it to a home network (LAN), you must configure network settings.

If you set up your home network (LAN) via DHCP, set "DHCP" to "On". (Use the default setting.) This allows this unit to use your home network (LAN). When assigning an IP address to each device manually, you need to assign an IP address to this unit using the "IP Address" settings, and enter information about your home network (LAN) such as the gateway address and subnet mask, etc.

Information

Display network information.

Friendly Name / Connection / SSID / DHCP / IP Address / MAC Address (Ethernet) / MAC Address (Wi-Fi) / Wi-Fi signal strength

Connection

Choose whether to connect the home network to a wireless LAN or a wired LAN.

When connecting to the network using wired LAN, select "Wired(Ethernet)" after connecting a LAN cable.

When connecting to the network using wireless LAN, select "Wireless(Wi-Fi)" and configure the "Wi-Fi Setup". ($\square p$ 163)

Connect Using

Select the method for connecting to the home network (LAN).

Wired(Ethernet):	Use a LAN cable to connect to a network.
Wireless(Wi-Fi)	Use the wireless LAN (Wi-Fi) function to
(Default):	connect to a network.

Front panel



Wi-Fi Setup

Connect to a wireless LAN (Wi-Fi) router.

The router can be connected in the following ways. Select the connection method to suit your home environment.

Scan Networks

Select the network you wish to connect to from the list of possible networks shown on the TV screen.

1. Select the network you wish to connect to from the list of wireless networks.

Select "Rescan" if the network cannot be found.

2. Enter your password and select "OK".

Use iOS Device

Use your iOS device (iPhone/iPod/iPad) to connect to the network. By connecting your iOS device to this unit using Wi-Fi, the unit can be automatically connected to the same network as your device.

- 1. Select "Use iOS Device" on the TV screen.
- Check that your iOS device is connected to the wireless LAN (Wi-Fi) router and select "Marantz NR1510" from "SET UP NEW AIRPLAY SPEAKER..." at the bottom of the Wi-Fi configuration screen of your iOS device.
- 3. Tap "Next" on the screen of the iOS device.

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• The iOS device firmware version needs to support iOS 7 or later.

WPS Router

Use a WPS-compatible router to connect using the push button method.

- 1. Select "Push Button" on the TV screen.
- 2. Switch to the WPS mode by pressing the WPS button of the router you wish to connect to.
 - The time for pressing the button varies depending on the router.
- 3. Select "Connect" on the TV screen within 2 minutes.

Front panel





Manual

Enter the name (SSID) and password of the network you wish to connect to.

1. Set the following items.

SSID:	Input the name of the wireless network (SSID).
Security:	Select the encryption method according to the encryption setting of the access point you are using.
Password:	Input the password.

2. Select "Connect" at the end of the setting.

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- The wireless LAN (Wi-Fi) settings of this unit can also be configured from a PC or tablet that supports wireless LAN connection.
- 1. Press and hold the M-DAX and SOUND MODE buttons on the main unit for at least 3 seconds when the power of the unit is on.
- Connect the wireless LAN of the PC or tablet used to "Marantz NR1510" when the message "Connect your Wi-Fi device to Wi-Fi network called "Marantz NR1510"." appears in the display.
- 3. Start up the browser and enter "192.168.1.16/Settings/" in the URL.
- 4. Use the browser to enter the settings, select "Connect" and then exit the settings.
- The Default key of this unit is fixed at "1". Set Default key of the router to "1" to use.

Settings

Configure the IP address.

- If you are using a broadband router (DHCP function), the information required for network connection such as the IP address will be automatically configured since the DHCP function is set to "On" in the default settings of this unit.
- Set up the IP Address, Subnet Mask, Default Gateway and DNS server information only when assigning a fixed IP address or when connecting to a network without DHCP function.

Settings		
DHCP	Off	
-IP Address	000.000.000.000	
-Subnet Mask	000.000.000.000	
-Default Gateway	000.000.000.000	
-DNS	000.000.000.000	
Save		
Cancel		







DHCP

Selects how to connect to the network.

On	Configure the network settings
(Default):	automatically from your router.
Off:	Configure the network settings manually.

IP Address

Set the IP address within the ranges shown below.

The Network Audio function cannot be used if other IP addresses
 are set.

CLASS A: 10.0.0.1 - 10.255.255.254

CLASS B: 172.16.0.1 - 172.31.255.254

CLASS C: 192.168.0.1 - 192.168.255.254

Subnet Mask

When connecting an xDSL modem or connector adapter directly to this unit, input the subnet mask indicated in the documentation supplied by your provider. Normally input "255.255.255.0".

Default Gateway

When connected to a gateway (router), input its IP address.

DNS

Enter the DNS address indicated in the documentation supplied by your provider.

- If you cannot connect to the Internet, recheck the connections and settings. ((\mathfrak{T} p. 46)
- If you do not understand about Internet connection, contact your ISP (Internet Service Provider) or the store from which you purchased your computer.







Network Control

Enables network communication in standby power mode.

Off In Standby:	Suspend network function during standby.
Always On (Default) :	Network is on during standby. Main unit operable with a network compatible controller.

ø

• When using the web control function, Marantz 2016 AVR Remote App or HEOS App, use with the "Network Control" setting set to "Always On".

NOTE

When "Network Control" is set to "Always On", the unit consumes more standby power.

Friendly Name

The Friendly Name is the name of this unit displayed on the network. You can change the Friendly Name according to your preferences.

Name

Selects Friendly Name from the list.

When you select "Other", you can change the Friendly Name according to your preferences.

Home Theater /Living Room / Family Room / Guest Room / Kitchen / Dining Room / Master Bedroom / Bedroom / Den / Office / Other

- Up to 30 characters can be input.
- The default Friendly Name on first use is "Marantz NR1510".

Set Defaults

Restores Friendly Name, which you had changed, to the default setting.

Front panel





Diagnostics

Used to check the network connection.

Physical Connection

Checks the physical LAN port connection.

ОК

Error:

The LAN cable is not connected. Check the connection.

Ó

• When connected using a wireless LAN, "Connection Wireless(Wi-Fi)" will be displayed.

Router Access

Checks the connection from this unit to the router.

ок

Error: Failed to communicate with the router. Check the router settings.

Internet Access

Checks whether this unit has access to the Internet (WAN).

ОК	
Error:	Failed to connect to the Internet. Check the Internet connection environment or router settings.

AirPlay Settings for Apple AirPlay. On (Default): Enables Apple AirPlay. Off: Disables Apple AirPlay.





HEOS Account

Make HEOS Account-related settings.

HEOS Account is needed in order to use HEOS Favorites.

The menu displayed differs depending on the status of the HEOS Account.

You have not signed in

I have a HEOS Account

If you already have a HEOS Account, enter the current account name and password to sign in.

Create Account

If you do not have a HEOS Account, create a new HEOS Account.

Forgot Password

If you have forgotten the password, an email explaining how to reset the password will be sent.

You have already signed in

Signed in As

The currently signed in HEOS Account is displayed.

Change Location

Change the regional settings for the signed in HEOS Account.

Change Password

Change the password for the signed in HEOS Account.

Delete Account

Delete the signed in HEOS Account.

Sign Out

Sign out from the HEOS Account.



General

Make various other settings.

Language

Set the language for display the menu on the TV screen.

English / Français / Español (Default: English)

- "Language" can also be set up by the following operation. However, the menu screen is not displayed. Watch the display while configuring the settings.
- 1. Press and hold the main unit's TUNER PRESET CH + and STATUS at the same time for at least 3 seconds.

"V.Format:< NTSC>" appears on the display.

2. Press DIMMER on the main unit twice.

"Lang.:<ENGLISH >" appears on the display.

- 3. Use the main unit's TUNER PRESET CH + or TUNER PRESET CH and set the language.
- 4. Press the main unit's STATUS to complete the setting.

ECO

Configure the ECO Mode and auto standby mode settings.

ECO Mode

This mode can reduce the power consumption and heat generation of this unit when power on.

This is done by reducing the power supply line to the power amplifier, in turn the maximum power output.







Playback

On:	Power savings are always active, regardless of volume or input signal.
Auto:	Gives you the best balance between power savings and maximum power output: For low volume levels, the power savings are active. If you increase the volume level, the power savings are switched off automatically, so you can enjoy maximum output power without distortion.
	If the volume is set to a high level but no input signal is detected for more than 2 minutes, this unit will enable power savings. When an input signal is detected again or the input source is changed, this unit will automatically turn off power savings again at high volume levels.
Off (Default):	No power savings.

- When the unit is switching between the different power saving states in "ECO Mode: Auto", you may notice a click noise from the inside of this unit, this is normal.
- If content is paused for more than 2 minutes and playback is resumed from the same source at these high volume levels, there may be short delay before maximum power is restored.

Front panel





Pow.On Default

Set the mode to ECO when the power is on.

Last (Default) :	The ECO Mode will be set to the previous setting before the power was switched off.
On:	When power is turned on, the mode will always be switched to the ECO Mode in "On".
Auto:	When power is turned on, the mode will always be switched to the ECO Mode in "Auto".
Off:	When power is turned on, the mode will always be switched to the ECO Mode in "Off".

On Screen Disp.

Display the power consumption of this unit using a meter on the TV screen.

Always On:	Always display the meter on the TV screen.
Auto (Default):	Display the meter when changing the mode or volume.
Off:	Do not display the meter.

Auto Standby

Set so the unit power automatically switches to standby.

Sets the time for switching to auto standby when there are no audio or video signals input into this unit.

Before the unit enters standby mode, "Auto Standby" is displayed on the unit display and the menu screen.

60 min:	The unit goes into standby after 60 minutes.
30 min:	The unit goes into standby after 30 minutes.
15 min:	The unit goes into standby after 15 minutes.
Off (Default):	The unit does not go into standby automatically.

Front panel

Smart Sel.Names

Change the smart select name that appears on the TV screen to one you prefer.

Smart Select 1 / Smart Select 2 / Smart Select 3 / Smart Select 4

Set Defaults: The default setting is restored for the edited smart select name.

• Up to 16 characters can be input.

Front Display

Makes settings related to the display on this unit.

Dimmer

Adjust the display brightness of this unit.

Bright (Default) :	Normal display brightness.
Dim:	Reduced display brightness.
Dark:	Very low display brightness.
Off:	Turns the display off.

• You can also adjust the display by pressing DIMMER on the main unit.









Firmware

Checks for the latest firmware information about updates and upgrades, updates the firmware, and sets up the notification message display for upgrades.

Check for Update

Check for firmware updates.

The firmware can be updated if a firmware update has been released.

Update Now:	Execute the update process. When the update starts, the menu screen is shut down. During the update, the progress is shown on the display.
Update Later:	Update later.

 This unit automatically retries updating if updating fails. If an update still cannot be performed, an "Update Error" message appears in the display. See "Troubleshooting" – "Update/upgrade error messages" for information on update error messages. (IPP p. 199)

Check the conditions according to the message and try the update again.

• This menu cannot be selected when "Allow Update" is set to "Off".

Auto-Update

Turns on Automatic Updates so that futures updates are automatically downloaded and installed when this unit is in standby mode.

□ Auto-Update

This unit will automatically update to the newest firmware when in standby mode.

On:	Turns on Automatic Updates.	
Off (Default):	Turns off Automatic Updates.	

Time Zone

Change the time zone.

Set the time zone that matches the area where you live.



• This menu cannot be selected when "Allow Update" is set to "Off".



Allow Update

Enable or disable updates and upgrades for this unit.

On (Default):	Enables this unit to receive updates and upgrades.
Off:	Prevents this unit from receiving update and upgrade.

• This setting causes Incompatibilities between this unit and HEOS App.

Upgrade Notice

When the latest Upgrade firmware is available, a notification message is displayed on the TV screen at power on.

The notification message is displayed for about 40 seconds when the power is turned on.

On (Default):	Display upgrade message.
Off:	Do not display upgrade message.

• This menu cannot be selected when "Allow Update" is set to "Off".









Add New Feature

Display new features that can be downloaded to this unit and perform an upgrade.

Upgrade Package:	Display the items to be upgraded.
Upgrade Status:	Display a list of the additional functions provided by the upgrade.
Upgrade:	Execute the upgrade process. When the upgrade starts, the menu screen is shut down. During the upgrade, the amount of upgrade time which has elapsed is displayed.

- Information regarding the "Update" function and "Add New Feature" will be announced on the Marantz website each time related plans are defined. See the Marantz website for details about upgrades.
- When the procedure is complete, "Registered" is displayed in this menu and upgrades can be carried out. If the procedure has not been carried out, "------" is displayed.

The ID number shown on this screen is needed when carrying out the procedure.

The ID number can also be displayed by pressing and holding the main unit's STATUS and SOUND MODE for at least 3 seconds.

 If the upgrade is not successful, "Upgrade Error" message appears in the display. See "Troubleshooting" – "Update/upgrade error messages" for information on upgrade error messages. (127 p. 199) Check the settings and network environment and then perform the upgrade again.

• This menu cannot be selected when "Allow Update" is set to "Off".

Notes concerning use of "Update" and "Add New Feature"

- In order to use these functions, you must have the correct system requirements and settings for an Internet connection. (127 p. 46)
- Do not turn off the power until updating or upgrading is completed.
- Approximately 1 hour is required for the updating/upgrading procedure to be completed.
- Once updating/upgrade starts, normal operations on this unit cannot be performed until updating/upgrading is completed. Furthermore, there may be cases where backup data is reset for the parameters, etc., set on this unit.
- If the update or upgrade fails, press and hold the () on the main unit for more than 5 seconds, or remove and re-insert the power cord. After about 1 minute, "Please wait" appears on the display and update restarts. If the error continues, check the network environment.







Information

Show information about this unit settings, input signals, etc.

Audio

Show the audio information.

Sound Mode:	The currently set sound mode.
Input Signal:	The input signal type.
Format:	The number of input signal channels (presence of front, surround, LFE).
Sample rate:	The input signal's sampling frequency.
Offset:	The dialogue normalization correction value.
Flag:	This is displayed when inputting signals including a surround back channel. "MATRIX" is displayed with DTS-ES Matrix input signals, "DISCRETE" with DTS-ES Discrete signals.

Video

Show the HDMI input/output signals and HDMI monitor information.

HDMI Signal

Resolution / HDR / Color Space / Pixel Depth

HDMI Monitor

Interface / HDR / Resolutions

Status

Show information about current settings.

This item shows information about settings for this unit. The information displayed differs according to the input source.

Firmware

Version:

Displays information for the current firmware.





Notifications

Displays and sets notifications.

Also, sets whether or not to display the notification when the power is turned on.

Notif.Alerts

On (Default):	Notification messages are displayed.
Off:	Notification messages are not displayed.

• Press INFO on the remote control unit to display current source name, volume, sound mode name, and other information at the bottom of the screen.

S	OURCE Blu-ray/DVD			
6	OUND Dolby Audio -	TrueHD		
6	IGNAL Dolby Audio -	TrueHD		
6	UDYSSEN MultEQ : Refer	ence		
	Dynamic EQ : 0	Dn		
	Dynamic Volur	ne:Med	ium	
	INPUT SIGNAL THE LTC EXT THE TWO FL C FR THE 24 SA 56 SA		ACTIVE SPEAKERS	
			– 40.0d	В

Usage Data

To help us improve our products and customer service, Marantz collects anonymous information about how you use this unit (such as frequently used input sources and sound modes and speaker settings).

Marantz will never provide any information we collect to third parties.

Yes:	Provide information on the operating status of this unit.
No:	Do not provide information on the operating status of this unit.







Save & Load

Save and restore device settings by using a USB memory device.

- Use a USB memory device that has at least 128 MB of free space and is formatted to FAT32. Data may not Save/Load correctly to some USB memory devices.
- It may take up to 10 minutes for data to Save/Load. Do not turn off the power until the process is complete.

Save Configuration

Current unit settings are stored on the USB memory device. When the settings are saved correctly, "Saved" appears on the display and the file "config.avr" is created on the USB memory device.

• Do not change the file name of the created file. Doing so will prevent the file from being recognized as a settings file when restoring.

Load Configuration

Settings saved on the USB memory device are restored.

When the saved settings are restored correctly, "Loaded" appears on the display and the unit automatically restarts.

Setup Lock

Protect settings from inadvertent changes.

Lock

On:	Turn protection on.	
Off (Default):	Turn protection off.	

• When cancelling the setting, set "Lock" to "Off".

NOTE

• When "Lock" is set to "On", no setting items are displayed except for "Setup Lock".



Reset

Returns settings to the factory default.

Initialization can be performed for all unit settings or for Network settings only.

All Settings

All settings are reset to the factory default values.

Network Settings

Only network settings are reset to the factory default values.

- Before returning the settings to the default settings, use the "Save & Load" function from the menu to save and restore the details of various settings configured on the unit. (127 p. 178)
- The "Reset" operation can also be performed by using the button on the main unit. For details on resetting all of the settings to the factory defaults see "Resetting factory settings" (IP p. 200), and for details on resetting the network settings to the factory defaults see "Resetting network settings" (IP p. 201).

NOTE

• Do not disconnect the power or turn the device off during network settings initialization.







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/ Connections

Tips

I want the volume not to become too loud by mistake

• Set the volume upper limit for "Limit" in the menu beforehand. This prevents children or others from increasing the volume too much by mistake. (127 p. 129)

I want to keep the volume at the same level when I turn the power on

• By default, the volume setting when power was previously set to standby on this unit is applied at next power on with no change. To use a fixed volume level, set the volume level at power on for "Power On Level" in the menu. (127 p. 129)

I want to have the subwoofer always output audio

• Depending on the input signals and sound mode, the subwoofer may not output audio. When "Subwoofer Mode" in the menu is set to "LFE+Main", you can have the subwoofer always output audio. (127 p. 161)

I want to make human voices in the movies clearer

• Use "Center Level" in the menu to adjust the level. (122)

I want to keep bass and clarity during playback at a lower volume level

• Set "Dynamic EQ" in the menu to "On". This setting corrects the frequency characteristics to allow you to enjoy clear sound without the bass being lost even during playback at a lower volume level. (Imp. 131)

I want to automatically adjust the volume level difference in content such as TV and movies

• Set "Dynamic Volume" in the menu. Volume level changes (between quiet scenes and loud scenes) in TV shows or movies are automatically adjusted to your desired level. (127 p. 132)





I want to set the optimized listening environment after changing the configuration/position of the speakers or changing a speaker to a new one

• Perform Audyssey® Setup. This automatically makes the optimized speaker settings for the new listening environment. (127 p. 146)

I want to combine a desired video with the current music

• Set "Video Select" in the option menu to "On". You can combine the current music with your desired video source from a Set-top Box or DVD, etc. while listening to music from the Tuner, CD, Phono, HEOS Music, USB or Bluetooth. (127 p. 93)

I want to skip unused input sources

• Set unused input sources for "Hide Sources" in the menu. This allows you to skip unused input sources when turning the INPUT SELECTOR knob on this unit. (127 p. 145)

I want to operate this unit using the TV remote control

- Select "AV Receiver" in a TV menu such as "Input"* or "Operate Connected HDMI Device"*. The Smart Menu of this unit is displayed on the TV. This Smart Menu can be operated using the remote control of your TV.
- * The selection method differs depending on your TV. See the owner's manual of your TV for details.









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Troubleshooting

If a problem should arise, first check the following:

- 1. Are the connections correct?
- 2. Is the set being operated as described in the owner's manual?
- 3. Are the other devices operating properly?

If steps 1 to 3 above do not improve the problem, restarting the device may improve the problem.
 Continue pressing the Φ button on the unit until "Restart" appears in the display, or remove and re-insert the power cord of the unit.

If this unit does not operate properly, check the corresponding symptoms in this section.

If the symptoms do not match any of those described here, consult your dealer as it could be due to a fault in this unit. In this case, disconnect the power immediately and contact the store where you purchased this unit.









Power does not turn on / Power is turned off

Power does not turn on.

• Check whether the power plug is correctly inserted into the power outlet. (127 p. 49)

Power automatically turns off.

- The sleep timer is set. Turn on the power again. (IP p. 107)
- "Auto Standby" is set. "Auto Standby" is triggered when there is no operation for a set amount of time. To disable "Auto Standby", set "Auto Standby" on the menu to "Off". (127 p. 171)

Power turns off and the power indicator flashes in red approx. every 2 seconds.

- The protection circuit has been activated due to a rise in temperature within this unit. Turn the power off, wait about an hour until this unit cools down sufficiently, and then turn the power on again. (127 p. 222)
- Please re-install this unit in a place having good ventilation.

Power turns off and the power indicator flashes in red approx. every 0.5 seconds.

- Check the speaker connections. The protection circuit may have been activated because speaker cable core wires came in contact with each other or a core wire was disconnected from the connector and came in contact with the rear panel of this unit. After unplugging the power cord, take corrective action such as firmly re-twisting the core wire or taking care of the connector, and then reconnect the wire. (127 p. 29)
- Turn down the volume and turn on the power again. (1 p. 51)
- This unit's amplifier circuit has failed. Unplug the power cord and contact our customer service center.







Operations cannot be performed through the remote control unit

Operations cannot be performed through the remote control unit.

- Batteries are worn out. Replace with new batteries. (12 p. 9)
- Operate the remote control unit within a distance of about 23 ft/7 m from this unit and at an angle of within 30°. (127 p. 9)
- Remove any obstacle between this unit and the remote control unit.
- Insert the batteries in the proper direction, checking the \oplus and Θ marks. (127 p. 9)
- The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the set to a place in which the remote control sensor will not be exposed to strong light.
- When using a 3D video device, the remote control unit of this unit may not function due to effects of infrared communications between units (such as TV and glasses for 3D viewing). In this case, adjust the direction of units with the 3D communications function and their distance to ensure they do not affect operations from the remote control unit of this unit.

Display on this unit shows nothing

Display is off.

- Set "Dimmer" on the menu to something other than "Off". (172)
- When the sound mode is set to "Pure Direct", the display is off. (127 p. 96)





No sound comes out

No sound comes out of speakers.

- Check the connections for all devices. (127 p. 29)
- · Insert connection cables all the way in.
- · Check that input connectors and output connectors are not reversely connected.
- Check cables for damage.
- Check that speaker cables are properly connected. Check that cable core wires come in contact with the metal part on speaker terminals. (1/27 p. 29)
- Securely tighten the speaker terminals. Check speaker terminals for looseness. (1 p. 29)
- Check that a proper input source is selected. (127 p. 51)
- Adjust the volume. (127 p. 52)
- Cancel the mute mode. (127 p. 52)
- Check the digital audio input connector setting. (127 p. 142)
- Check the digital audio output setting on the connected device. On some devices, the digital audio output is set to off by default.
- When a headphone is plugged into the PHONES jack on the main unit, sound is not output from the speaker terminal and PRE OUT connector.

No sound comes out when using the DVI-D connection.

• When this unit is connected to a device equipped with a DVI-D connector, no sound is output. Make a separate audio connection.









Desired sound does not come out

The volume does not increase.

- The maximum volume is set too low. Set the maximum volume using "Limit" on the menu. (127 p. 129)
- Appropriate volume correction processing is performed according to the input audio format and settings, so the volume may not reach the upper limit.

No sound comes out with the HDMI connection.

- Check the connection of the HDMI connectors. (127 p. 35)
- When outputting HDMI audio from the speakers, set "HDMI Audio Out" on the menu to "AVR". To output from the TV, set "TV". (127 p. 134)
- When using the HDMI Control function, check that the audio output is set to the AV amplifier on the TV. (127 p. 104)

When an eARC function-compatible television is connected, television audio is not output from the speaker connected to this unit

- eARC function settings may be required depending on the eARC function-compatible television you are using. Make sure eARC is set to on if this setting exists on your television. For more information, check your television's owner's manual.
- Make sure the input source of this unit is "TV Audio".
- The eARC function does not operate when the HDMI input connector is set to the "TV Audio" input source. To enable eARC function operation, remove the HDMI input connector setting, then restart this unit and the television. (127 p. 143)

No sound comes out of a specific speaker.

- Check that speaker cables are properly connected.
- Check that a selection other than "None" is set for the "Speaker Config." setting in menu. (127 p. 156)
- When the sound mode is "Stereo" and "Virtual", audio is only output from the front speakers and subwoofer.









No sound is produced from subwoofer.

- Check the subwoofer connections.
- Turn on the subwoofer's power.
- Set "Speaker Config." "Subwoofer" on the menu to "Yes". (P p. 157)
- When "Speaker Config." "Front" in the menu is set to "Large", depending on the input signal and the sound mode, no sound may be output from the subwoofer. (127 p. 156)
- When no subwoofer audio signal (LFE) is included in the input signals, no sound may be output from the subwoofer. (127 p. 161)
- You can make the subwoofer always output sound by setting the "Subwoofer Mode" to "LFE+Main". (127 p. 161)

DTS sound is not output.

• Check that the digital audio output setting on the connected device is set to "DTS".

Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output.

- Make HDMI connections. (12 p. 39)
- Check the digital audio output setting on the connected device. On some devices, "PCM" is set by default.

Dolby PLII mode or DTS Neo:6 mode cannot be selected.

- It cannot be selected when "Speaker Config." "Surround" is set for "None". (1777) p. 157)
- Dolby PLII or DTS Neo:6 cannot be selected when using headphones.

Audyssey MultEQ®, Audyssey Dynamic EQ® and Audyssey Dynamic Volume® cannot be selected.

- These cannot be selected when you have not performed Audyssey® Setup. (I p. 146)
- Switch to a sound mode other than "Direct" or "Pure Direct". (1 p. 96)
- These cannot be selected when using the headphones.

"M-DAX" cannot be selected.

- Check that an analog signal or PCM signal (Sample Rate = 44.1/48 kHz) is input. For playback of multichannel signals such as Dolby Digital or DTS surround, "M-DAX" cannot be used. (127 p. 127)
- Switch to a sound mode other than "Direct" or "Pure Direct". (1 p. 96)





Sound is interrupted or noise occurs

During playback from the Internet radio or USB memory device, sound is occasionally interrupted.

- When the transfer speed of the USB memory device is slow, sound may occasionally be interrupted.
- The network communication speed is slow or the radio station is busy.

When making a call on iPhone, noise occurs in audio output on this unit.

• When making a call, keep a distance of 0.7 ft/20 cm or longer between iPhone and this unit.

Noise often occurs in FM/AM broadcasting.

- Change the antenna orientation or position. (1 p. 44)
- Separate the AM loop antenna from the unit.
- Use an outdoor antenna. (12 p. 44)
- Separate the antenna from other connection cables. (127 p. 44)

The sounds appear to be distorted.

- Lower the volume. (127 p. 52)
- Set "Off" to the "ECO Mode". When "On" or "Auto" is in the "ECO Mode", the audio may by distorted when the playback volume is high. (127 p. 169)

Sound cuts out when using Wi-Fi connection.

- The frequency band used by the wireless LAN is also used by microwave ovens, cordless telephones, wireless game controllers and other wireless LAN devices. Using such devices at the same time as this unit may cause sound to cut out due to electronic interference. Sound cut out can be improved using the following methods. (127 p. 46)
 - Install devices that cause interference away from this unit.
 - Turn off the power supply to devices that cause interference.
 - Change the settings of the router channel to which this unit is connected to. (See the instruction manual of the wireless router for details on how to change the channel.)
 - Switch to a wired LAN connection.
- Particularly when you play back large music files, depending on your wireless LAN environment, the playback sound may be interrupted. In this case, make the wired LAN connection. (127 p. 163)







No video is shown on the TV

No picture appears.

- Check the connections for all devices. (127 p. 35)
- Insert connection cables all the way in.
- · Check that input connectors and output connectors are not reversely connected.
- Check cables for damage.
- Match the input settings to the input connector of the TV connected to this unit. (IP p. 142)
- Check that the proper input source is selected. (1 p. 51)
- Check the video input connector setting. (127 p. 142)
- Check that the resolution of the player corresponds to that of the TV. (127 p. 176)
- Check whether the TV is compatible with copyright protection (HDCP). If connected to a device not compatible with HDCP, video will not be output correctly. (127 p. 204)
- To enjoy content that is copyright protected by HDCP 2.2 or HDCP 2.3, use a playback device and TV compatible with HDCP 2.2 or HDCP 2.3.
- To play back a 4K video, use a "High Speed HDMI Cable" or an "High Speed HDMI Cable with Ethernet". In order to achieve a higher fidelity for 4K videos, it is recommended to use a "Premium High Speed HDMI Cables" or an "Premium High Speed HDMI Cables with Ethernet" that has an HDMI Premium Certified Cable label on the product package.

No video is shown on the TV with the DVI-D connection.

• With the DVI-D connection, on some device combinations, devices may not function properly due to the copy guard copyright protection (HDCP). (1) p. 204)

While the menu is being displayed, no video is shown on the TV.

- The video being played will not appear in the background of the menu when the menu is operated during playback of the following video signals.
 - Some images of 3D video contents
 - Computer resolution images (example: VGA)
 - Video with an aspect ratio other than 16:9 or 4:3
 - 4K video
 - Some kind of HDR signals



The menu screen is not displayed on the TV

The menu screen or status information screen is not displayed on the TV.

- The menu screen is only displayed on this unit and a TV connected with an HDMI cable. If this unit is connected to a TV using a different video output connector, operate while watching the display on this unit.
- The status information will not appear on the TV when the following video signals are being played.
 - Some images of 3D video content
 - Computer resolution images (example: VGA)
 - Video with an aspect ratio other than 16:9 or 4:3
 - Some kind of HDR signals
- When a 2D video is converted to a 3D video on the TV, the menu screen or status information screen is not displayed properly. (127 p. 177)
- In the pure direct playback mode, the menu screen or status information is not displayed. Switch to a sound mode other than the pure direct mode. (1) p. 95)
- Set the "TV Format" setting in the menu to a selection that is appropriate for the TV. (127 p. 141)

The color of the menu screen and operations content displayed on the television is different from normal

The color of the menu screen and operations content displayed on the television is different.

• Performing operations on this unit during playback of a Dolby Vision signal may cause variance in the color display of the menu screen and operations content. This is a characteristic of the Dolby Vision signal and is not a malfunction.







AirPlay cannot be played back

The AirPlay icon is not displayed on iTunes / iPhone / iPod touch / iPad.

- This unit and PC / iPhone / iPod touch / iPad are not connected to the same network (LAN). Connect it to the same LAN as this unit. (127 p. 46)
- The firmware on iTunes / iPhone / iPod touch / iPad is not compatible with AirPlay. Update the firmware to the latest version.

Audio is not output.

- The volume on iTunes / iPhone / iPod touch / iPad is set to the minimum level. The volume on iTunes / iPhone / iPod touch / iPad is linked with the volume on this unit. Set a proper volume level.
- The AirPlay playback is not performed, or this unit is not selected. Click the AirPlay icon on the iTunes / iPhone / iPod touch / iPad screen and select this unit. (127 p. 85)

Audio is interrupted during the AirPlay playback on iPhone / iPod touch / iPad.

- Quit the application running in the background of the iPhone/iPod touch/iPad, and then play using AirPlay.
- Some external factors may be affecting the wireless connection. Modify the network environment by taking measures such as shortening the distance from the wireless LAN access point.

iTunes cannot be played back through the remote control unit.

• Enable the "Allow iTunes audio control from remote speakers" setting on iTunes. Then, you can perform playback, pause, and skip operations through the remote control unit.







Settings

USB memory devices cannot be played back

USB memory device is not recognized.

- Disconnect and reconnect the USB memory device. (12 p. 43)
- Mass storage class compatible USB memory devices are supported.
- This unit does not support a connection through a USB hub. Connect the USB memory device directly to the USB port.
- The USB memory device must be formatted to "FAT32" or "NTFS".
- Not all USB memory devices are guaranteed to work. Some USB memory devices are not recognized. When using a type of portable hard disc drive compatible with the USB connection that requires power from an AC adapter, use the AC adapter that came with the drive.

Files on the USB memory device are not displayed.

- Files of a type not supported by this unit are not displayed. (IPP p. 53)
- This unit is able to display files in a maximum of eight folder layers. A maximum of 5000 files (folders) can also be displayed for each layer. Modify the folder structure of the USB memory device.
- When multiple partitions exist on the USB memory device, only files on the first partition are displayed.

iOS and Android devices are not recognized.

• The USB port of this unit does not support playback from iOS and Android devices.

Files on a USB memory device cannot be played.

- Files are created in a format that is not supported by this unit. Check the formats supported by this unit. (127 p. 205)
- You are attempting to play a file that is copyright protected. Files that are copyright protected cannot be played on this unit.
- Playback may not be possible if the album art file size exceeds 2 MB.





Bluetooth cannot be played back

Bluetooth devices cannot be connected to this unit.

- The Bluetooth function in the Bluetooth device has not been enabled. See the Owner's Manual of the Bluetooth device to enable the Bluetooth function.
- Bring the Bluetooth device near to this unit.
- The Bluetooth device cannot connect with this unit if it is not compatible with the A2DP profile.
- Turn the power of the Bluetooth device off and on again, and then try again.

The sound is cut off.

- Bring the Bluetooth device near to this unit.
- · Remove obstructions between the Bluetooth device and this unit.
- To prevent electromagnetic interference, locate this unit away from microwave ovens, wireless LAN devices and other Bluetooth devices.
- Reconnect the Bluetooth device.









The Internet radio cannot be played back

A list of broadcasting stations is not displayed.

- The LAN cable is not properly connected, or the network is disconnected. Check the connection status. (127 p. 46)
- Perform the network diagnostic mode.

Internet Radio cannot be played.

- The selected radio station is broadcasting in a format that is not supported by this unit. Formats that can be played back in this unit are MP3, WMA and AAC. (127 p. 208)
- The firewall function is enabled on the router. Check the firewall setting.
- The IP address is not properly set. (127 p. 164)
- Check the power of the router is on.
- To obtain the IP address automatically, enable the DHCP server function on the router. Also, set the DHCP setting to "On" on this unit. (127 p. 164)
- To obtain the IP address manually, set the IP address on this unit. (127 p. 164)
- Some radio stations broadcast silently during some time period. In this case, no audio is output. Wait for a while and select the same radio station, or select another radio station. (127 p. 70)
- The selected radio station is not in service. Select a radio station in service.

Cannot connect to favorite radio stations.

• Radio station is not currently in service. Register radio stations in service.





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Music files on PC or NAS cannot be played back

Files stored on a computer cannot be played.

- Files are stored in a non-compatible format. Record in a compatible format. (IP p. 207)
- Files that are copyright protected cannot be played on this unit.
- The USB port of this unit cannot be used for connection to a computer.
- Media sharing settings on the server or NAS do not allow this unit. Change the settings to allow this unit. For details, see the owner's manual of the server or NAS.

Server is not found, or it is not possible to connect to the server.

- The computer's or router's firewall is activated. Check the computer's or router's firewall settings.
- Computer's power is not turned on. Turn on the power.
- Server is not running. Launch the server.
- IP address of this unit is wrong. Check the IP address of this unit. (127 p. 162)

Music files on PC cannot be played back.

• Even if PC is connected to the USB port on this unit, music files on it cannot be played back. Connect PC to this unit through the network. (127 p. 46)

Files on PC or NAS are not displayed.

Front panel

• Files of a type not supported by this unit are not displayed. (12 p. 207)

Music stored on a NAS cannot be played.

• If you use a NAS in conformity with the DLNA standard, enable the DLNA server function in the NAS setting.

Rear panel

• If you use a NAS that does not conform with the DLNA standard, play the music via a PC. Set Windows Media Player's media sharing function and add NAS to the selected play folder.

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Remote

• If connection is restricted, set audio equipment as the connection target.

Display

Various online services cannot be played

Various online services cannot be played.

• The online service may have been discontinued.

The HDMI Control function does not work

The HDMI Control function does not work.

- Check that "HDMI Control" in the menu is set to "On". (P p. 136)
- You cannot operate devices that are not compatible with the HDMI Control function. In addition, depending on the connected device or the settings, the HDMI Control function may not work. In this case, operate the external device directly. (127 p. 104)
- Check that the HDMI Control function setting is enabled on all devices connected to this unit. (127 p. 104)
- When you make connection related changes such as connecting an additional HDMI device, the link operation settings may be initialized. Turn off this unit and devices connected via HDMI, and turn them on again. (127 p. 104)





Cannot connect to a wireless LAN network

Cannot connect to the network.

- The network name (SSID), password and encryption setting have not been set up correctly. Configure the network settings according to the setting details of this unit. (127 p. 164)
- Shorten the distance from the wireless LAN access point and remove any obstructions to improve access first before re-connecting again. Place the unit away from microwave ovens and other network access points.
- Configure the access point channel settings away from channels that are being used by other networks.
- This unit is not compatible with WEP (TSN).

Cannot connect to a WPS Router.

- Check that the WPS mode of the router is operating.
- Press the WPS button on the router and then press the "Connect" button displayed on the TV within 2 minutes.
- A router/settings that are compatible with WPS 2.0 standards are required. Set the encryption time to "None", "WPA-PSK (AES)" or WPA2-PSK (AES). (12) p. 164)
- If the router encryption method is WEP/WPA-TKIP/WPA2-TKIP, you cannot connect by using the WPS button on the router. In this case, use the "Scan Networks" or "Manual" method to connect.

Cannot connect to the network using iPhone/iPod touch/iPad.

- Update the iPhone/iPod touch/iPad firmware to the latest version.
- When configuring the settings via a wireless connection, iOS 7 or later needs to be supported.





Update/upgrade error messages

If an update/upgrade is interrupted or fails, an error message appears.

Display	Description
Connection failed. Please check your network, then try again.	The network connection is unstable. Connection to the server failed. Check your network environment and try the update again.
Update failed. Please check your network, then try again.	The download of the firmware failed. Check your network environment and try the update again.
Upgrade failed. Please check your network, then try again.	The download of the firmware failed. Check your network environment and try the upgrade again.
Please check your network, unplug and reconnect the power cord, and try again.	The update failed. Press and hold the \oplus on the main unit for more than 5 seconds, or remove and re-insert the power cord. The update restarts automatically.
Please contact customer service in your area.	This unit may be broken. Contact our Customer Service Center in your area.





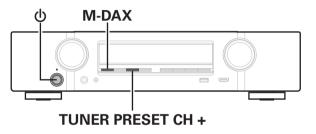


Resetting factory settings

If the indicators are incorrect or the unit cannot be operated, restarting the unit may improve the problem. We recommend restarting the unit before returning the settings to the default settings. (12) p. 183)

If the operations are not improved by restarting the unit, follow the steps below.

Various settings are reset to the factory default values. Make settings again.



- Turn off the power using Φ.
- **2** Press Φ while simultaneously pressing TUNER PRESET CH + and M-DAX.
- **3** Remove your fingers from the two buttons when "Initialized" appears on the display.

- Before returning the settings to the default settings, use the "Save & Load" function from the menu to save and restore the details of various settings configured on the unit. (1277 p. 178)
- You can also reset all settings to the factory defaults using "Reset" "All Settings" in the menu. (Pp p. 179)





Contents \/ Connections \/ Playback

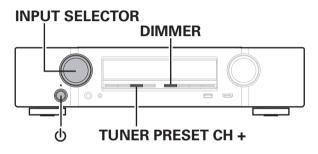
Resetting network settings

If network contents cannot be played or the unit cannot connect to the network, restarting the unit may improve the problem. We recommend restarting the unit before returning the settings to the default settings. (127 p. 183)

If the operations are not improved by restarting the unit, follow the steps below.

Network settings are reset to the factory default values. Make settings again.

However, the menu "Speaker Config." and "Video" settings are not reset.



- Press () to turn on power to the unit.
- **2** Turn INPUT SELECTOR to select "HEOS Music".
- **3** Press and hold the main unit's TUNER PRESET CH + and DIMMER at the same time for at least 3 seconds.
- **4** Remove your fingers from the two buttons when "Network Reset..." appears on the display.
- 5 "Completed" is shown in the display when reset is complete.

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- Before returning the settings to the default settings, use the "Save & Load" function from the menu to save and restore the details of various settings configured on the unit. (1277 p. 178)
- You can also reset the network settings to the factory defaults using "Reset" "Network Settings" in the menu. ($mathbb{CP}$ p. 179)

NOTE

Remote

• Do not turn the power off until reset is complete.

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About HDMI

HDMI is an abbreviation of High-Definition Multimedia Interface, which is an AV digital interface that can be connected to a TV or amplifier. With the HDMI connection, high definition video and high quality audio formats adopted by Blu-ray Disc players (Dolby Digital Plus, Dolby TrueHD, DTS-HD, DTS-HD Master Audio) can be transmitted, which is not possible with the analog video transmission.

Furthermore, in the HDMI connection, audio and video signals can be transmitted through a single HDMI cable, while in conventional connections it is necessary to provide audio and video cables separately for connection between devices. This allows you to simplify the wiring configuration that tends to be quite complex in a home theater system. This unit supports the following HDMI functions.

• Deep Color

An imaging technology supported by HDMI. Unlike RGB or YCbCr, which uses 8 bits (256 shades) per color, it can use 10 bits (1024 shades), 12 bits (4096 shades), or 16 bits (65536 shades) to produce colors in higher definition.

Both devices linked via HDMI must support Deep Color.

• x.v.Color

This function lets HDTVs display colors more accurately. It enables display with natural, vivid colors.

"x.v.Color" is trademark of Sony Corporation.

• 3D

This unit supports input and output of 3D (3 dimensional) video signals of HDMI. To play back 3D video, you need a TV and player that provide support for the HDMI 3D function and a pair of 3D glasses.

• 4K

This unit supports input and output of 4K (3840 x 2160 pixels) video signals of HDMI.

Content Type

It automatically makes settings suitable for the video output type (content information).

Adobe RGB color, Adobe YCC601 color

The color space defined by Adobe Systems Inc. Because it is a wider color space than RGB, it can produce more vivid and natural images.

sYCC601 color

Each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model.

ALLM (Auto Low Latency Mode)

This unit automatically switches to low latency mode depending on playback contents when using a combination of television and game console compatible with the ALLM function.



Contents

Auto Lip Sync

This function can automatically correct delay between the audio and video.

Use a TV that is compatible with the Auto Lip Sync function.

HDMI Pass Through

Even when the power to this unit is set to standby, signals input from the HDMI input connector are output to a TV or other device that is connected to the HDMI output connector.

HDMI Control

If you connect the unit and an HDMI Control function compatible TV or player with an HDMI cable and then enable the HDMI Control function setting on each device, the devices will be able to control each other.

Power off link

This unit power off can be linked to the TV power off step.

Audio output destination switching

From the TV, you can switch whether to output audio from the TV or the AV amplifier.

· Volume adjustment

You can adjust this unit's volume in the TV volume adjustment operation.

· Input source switching

You can switch this unit input sources through linkage to TV input switching.

When playing the player, this unit input source switches to the source for that player.

• ARC (Audio Return Channel)

This function transmits audio signals from the TV to this unit through the HDMI cable and plays back the audio from the TV on this unit based on the HDMI Control function.

If a TV without the ARC function is connected via HDMI connections, video signals of the playback device connected to this unit are transmitted to the TV, but this unit can not play back the audio from the TV. If you want to enjoy surround audio for TV program, a separate audio cable connection is required.

In contrast, if a TV with the ARC function is connected via HDMI connections, no audio cable connection is required. Audio signals from the TV can be input to this unit through the HDMI cable between this unit and the TV. This function allows you to enjoy surround playback on this unit for the TV.

• eARC (Enhanced Audio Return Channel)

The eARC function is an extension of the conventional ARC function. It utilizes dedicated eARC function control to play back television audio from this unit without passing through HDMI control. Furthermore, the eARC function can transmit multichannel linear PCM, Dolby TrueHD, DTS-HD Master Audio and other audio formats not compatible with conventional ARC. Connecting to an eARC function-compatible television also enables enjoyment of higher-quality surround playback of the audio content played from your television.

Front panel



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Supported audio formats

2-channel Linear PCM	2-channel, 32 kHz – 192 kHz, 16/20/24 bit
Multi-channel Linear PCM	7.1-channel, 32 kHz – 192 kHz, 16/20/24 bit
Bitstream	Dolby Digital / DTS / Dolby TrueHD / Dolby Digital Plus / DTS-HD Master Audio / DTS-HD High Resolution Audio / DTS Express

Supported video signals

- 480i
- 576i
- 720p 60/50Hz
- 1080p 60/50/24Hz

- 480p
- 576p
- 1080i 60/50Hz
- 4K 60/50/30/25/24 Hz

Copyright protection system

In order to play back digital video and audio such as BD video or DVD video via HDMI connection, both this unit and the TV or player must to support the copyright protection system known as HDCP (Highbandwidth Digital Content Protection System). HDCP is copyright protection technology comprised of data encryption and authentication of the connected AV devices. This unit supports HDCP.

 If a device that does not support HDCP is connected, video and audio are not output correctly. Read the owner's manual of your television or player for more information.

 When connecting this unit to a device that is compatible with the Deep Color, 4K, ARC and eARC functions, use a "High Speed HDMI cable with Ethernet" that bears the HDMI logo.

Front panel







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Tips

Playing back a USB memory devices

- This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
- This unit can show the artwork that was embedded by using MP3 ID3-Tag Ver. 2.3 or 2.4.
- This unit is compatible with WMA META tags.
- If the image size (pixels) of an album artwork exceeds 500 × 500 (WMA/MP3/Apple Lossless/DSD) or 349 × 349 (MPEG-4 AAC), then music may not be played back properly.

Compatible formats

	Sampling frequency	Channel	Bit rate	Extension
WMA *1	32/44.1/48 kHz	2-channel	48 – 192 kbps	.wma
MP3	32/44.1/48 kHz	2-channel	32 – 320 kbps	.mp3
WAV	32/44.1/48/88.2/ 96/176.4/192 kHz	2-channel	-	.wav
MPEG-4 AAC*1	32/44.1/48 kHz	2-channel	48 - 320 kbps	.aac/.m4a
FLAC	44.1/48/88.2/ 96/176.4/192 kHz	2-channel	-	.flac
Apple Lossless*2	44.1/48/88.2/ 96/176.4/192 kHz	2-channel	-	.m4a
DSD	2.8/5.6 MHz	2-channel	-	.dsf/.dff

*1 Only files that are not protected by copyright can be played on this unit. Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.

*2 The Apple Lossless Audio Codec (ALAC) decoder is distributed under the Apache License, Version 2.0 (http://www.apache.org/licenses/LICENSE-2.0).



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Maximum number of playable files and folder

The limits on the number of folders and files that can be displayed by this unit are as follows.

Item	USB memory device
Number of folder directory levels *1	8 levels
Number of folders	500
Number of files*2	5000

- *1 The limited number includes the root folder.
- *2 The allowable number of files may differ according to the USB memory device capacity and the file size.

Playing back a Bluetooth device

This unit supports the following Bluetooth profile.

- A2DP (Advanced Audio Distribution Profile): When a Bluetooth device that supports this standard is connected, monaural and stereo sound data can be streamed at a high quality.
- AVRCP (Audio/Video Remote Control Profile): When a Bluetooth device that supports this standard is connected, the Bluetooth device can be operated from this unit.

About Bluetooth communications

Radio waves broadcast from this unit may interfere with the operation of medical devices. Make sure you turn off the power of this unit and Bluetooth device in the following locations as radio wave interference may cause malfunctions.

- Hospitals, trains, aircraft, petrol kiosks and places where flammable
 gases are generated
- Near automatic doors and fire alarms

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Playing back a file saved on a PC or NAS

Connections

- This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
- This unit can show the artwork that was embedded by using MP3 ID3-Tag Ver. 2.3 or 2.4.
- This unit is compatible with WMA META tags.

Contents

If the image size (pixels) of an album artwork exceeds 500 × 500 (WMA/MP3/WAV/FLAC/Apple Lossless/DSD) or 349 × 349 (MPEG-4 AAC), then
music may not be played back properly.

Playback

A server or server software compatible with distribution in the corresponding formats is required to play music files via a network.
 For playing mentioned audio formats via a network a server software, for example Twonky Media Server or jRiver Media Server, needs to be installed on your computer or NAS for full support. There are other server software available too. Please check supported formats.

Settings

Specifications of supported files

	Sampling frequency	Channel	Bit rate	Extension
WMA *1	32/44.1/48 kHz	2-channel	48 – 192 kbps	.wma
MP3	32/44.1/48 kHz	2-channel	32 – 320 kbps	.mp3
WAV	32/44.1/48/88.2/ 96/176.4/192 kHz	2-channel	_	.wav
MPEG-4 AAC*1	32/44.1/48 kHz	2-channel	48 - 320 kbps	.aac/.m4a
FLAC	44.1/48/88.2/ 96/176.4/192 kHz	2-channel	-	.flac
Apple Lossless*2	44.1/48/88.2/ 96/176.4/192 kHz	2-channel	_	.m4a
DSD	2.8/5.6 MHz	2-channel	_	.dsf/.dff

*1 Only files that are not protected by copyright can be played on this unit. Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.

*2 The Apple Lossless Audio Codec (ALAC) decoder is distributed under the Apache License, Version 2.0 (http://www.apache.org/licenses/LICENSE-2.0).



Front panel



Playback

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Playing back Internet Radio

Playable broadcast station specifications

	Sampling frequency	Bit rate	Extension
WMA	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3	32/44.1/48 kHz	32 – 320 kbps	.mp3
MPEG-4 AAC	32/44.1/48 kHz	48 - 320 kbps	.aac/ .m4a

Personal memory plus function

Tips

The most recently used settings (input mode, HDMI output mode, sound mode, tone control, channel level, MultEQ[®], Dynamic EQ, Dynamic Volume, M-DAX and audio delay, etc.) are saved for each input source.

Settings

• "Surr.Parameter" settings are stored for each sound mode.

Last function memory

This function stores the settings which were made before going into the standby mode.

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Sound modes and channel output

 \bigcirc This indicates the audio output channels or surround parameters that can be set.

🔘 This indicates the audio output channels. The output channels depend on the settings of "Speaker Config.". (🖅 p. 156)

Sound mode		Channe	el output	
Sound mode	Front L/R	Center	Surround L/R	Subwoofer
Direct/Pure Direct (2-channel)	0			0*
Direct/Pure Direct (Multi-channel)	0	0	0	0
Stereo	0			0
Multi Ch In	0	0	0	0
Dolby Pro Logic II	0	0	0	O
DTS Neo:6	0	0	0	0
Dolby Digital	0	0	0	O
Dolby Digital Plus	0	0	0	0
Dolby TrueHD	0	0	0	O
DTS Surround	0	0	0	0
DTS 96/24	0	0	0	O
DTS-HD	0	0	0	0
DTS Express	0	0	0	O
Multi Ch Stereo	0	0	0	0
Virtual	0			O

* Audio is output when "Subwoofer Mode" in the menu is set to "LFE+Main". (IP p. 161)





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Sound modes and surround parameters

				Surro	ound Parameter				
Sound mode	Cinema EQ	Loudness Mngmt	Dynamic Comp.	Low Frequency *4	Dolby P	ro Logic II Music m	ode only	DTS Neo:6 Music mode only	
		*2	*3		Panorama	Dimension	Center Width	Center Image	
Direct/Pure Direct (2-channel) *1		0	0						
Direct/Pure Direct (Multi-channel) *1		0	0	0					
Stereo		0	0	0					
Multi Ch In	0			0					
Dolby Pro Logic II	0	0	0		0	0	0		
DTS Neo:6	0	0	0					0	
Dolby Digital	0		0	0					
Dolby Digital Plus	0		0	0					
Dolby TrueHD	0	0	0	0					
DTS Surround	0		0	0					
DTS 96/24	0			0					
DTS-HD	0			0					
DTS Express	0			0					
Multi Ch Stereo	0	0	0	0					
Virtual		0	0	0					

*1 - *4 : "Sound modes and surround parameters" (1 p. 212)



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	Tone				Audyssey		M-DAX
Sound mode	*5	Dialog Level	Subwoofer Level	MultEQ [®] *6*7	Dynamic EQ *8	Dynamic Volume *8	*9
Direct/Pure Direct (2-channel) * 1			○*10				
Direct/Pure Direct (Multi-channel) *1		0	0				
Stereo	0		○*11	0	0	0	0
Multi Ch In	0	0	0	0	0	0	
Dolby Pro Logic II	0	0	0	0	0	0	0
DTS Neo:6	0	0	0	0	0	0	0
Dolby Digital	0	0	0	0	0	0	
Dolby Digital Plus	0	0	0	0	0	0	
Dolby TrueHD	0	0	0	0	0	0	
DTS Surround	0	0	0	0	0	0	
DTS 96/24	0	0	0	0	0	0	
DTS-HD	0	0	0	0	0	0	
DTS Express	0	0	0	0	0	0	
Multi Ch Stereo	0	0	0	0	0	0	0
Virtual	0		0	0	0	0	0

*1, *6 - *11: "Sound modes and surround parameters" (2 p. 212)









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- *1 During playback in Pure Direct mode, the surround parameters are the same as in Direct mode.
- *2 This item can be selected when a Dolby TrueHD signal is played.
- *3 This item can be selected when a Dolby Digital, Dolby Digital Plus, Dolby TrueHD or DTS signal is played.
- *4 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.
- *5 This item cannot be set when "Dynamic EQ" is set to "On". (1) p. 131)
- *6 This item cannot be set when Audyssey® Setup (Speaker Calibration) has not been performed.
- *7 This item cannot be selected when the Dolby TrueHD or DTS-HD input signal sampling frequency exceeds 96 kHz.
- *8 This item cannot be set when "MultEQ[®]" is set to "Off". (I p. 130)
- *9 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.
- *10 This setting is available when "Subwoofer Mode" in the menu is set to "LFE+Main". (1 p. 161)
- *11 This item can be set when "Front" is set to "Small" or "Subwoofer Mode" is set to "LFE+Main". (1 p. 156, 161)







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Types of input signals, and corresponding sound modes

• This indicates the default sound mode.

 \bigcirc This indicates the selectable sound mode.

		2-	channel sigr	nal					Multi-char	nnel signal				
Sound mode	NOTE	Analog / PCM	Dolby Digital (+/HD)	DTS (-HD)	PCM Multi	DTS-HD	DTS Express	DTS ES Dscrt6.1	DTS ES Mtrx6.1	DTS	Dolby TrueHD	Dolby Digital Plus	Dolby Digital (EX)	Dolby Digital
DTS Surround														
DTS-HD MSTR						●*3								
DTS-HD HI RES						●*4								
DTS Surround									•	•				
DTS 96/24										•*5				
DTS Express							•							
DTS Neo:6	*1	0	0											
Dolby Surround														
Dolby TrueHD														
Dolby Digital Plus												•		
Dolby Digital														
Dolby Pro Logic II	*2	0		0										
Multi Ch In														
Multi Ch In														
Direct														
Direct		0*6	0	0	0	0	0	0	0	0	0	0	0	0

*1 - *6 : "Types of input signals, and corresponding sound modes" (1 p. 215)





C	nto	nto
	nte	nis

Playback

		2-channel signal			Multi-channel signal									
Sound mode	NOTE	Analog / PCM	Dolby Digital (+/HD)	DTS (-HD)	PCM Multi	DTS-HD	DTS Express	DTS ES Dscrt6.1	DTS ES Mtrx6.1	DTS	Dolby TrueHD	Dolby Digital Plus	Dolby Digital (EX)	Dolby Digital
Pure Direct														
Pure Direct		0	0	0	0	0	0	0	0	0	0	0	0	0
Original sound mode														
Multi Ch Stereo		0	0	0	0	0	0	0	0	0	0	0	0	0
Virtual		0	0	0	0	0	0	0	0	0	0	0	0	0
Stereo														
Stereo			0	0	0	0	0	0	0	0	0	0	0	0

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- *1 The "Cinema" mode or "Music" mode can be selected.
- *2 The "Movie" mode, "Music" mode or "Game" mode can be selected.
- *3 This item can be selected when the input signal is DTS-HD Master Audio.
- *4 This item can be selected when the input signal is DTS-HD Hi Resolution.
- *5 This item can be selected when the input signal is DTS 96/24.
- *6 The default sound mode for the AirPlay playback is "Direct".



Explanation of terms

Audyssey

Audyssey Dynamic EQ®

Audyssey Dynamic EQ[®] solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics.

Audyssey Dynamic EQ[®] works in tandem with Audyssey MultEQ[®] to provide well-balanced sound for every listener at any volume level.

Audyssey Dynamic Volume®

Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Audyssey Dynamic EQ[®] is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

Audyssey MultEQ®

Audyssey MultEQ[®] is a room equalization solution that calibrates any audio system so that it can achieve optimum performance for every listener in a large listening area. Based on several room measurements, MultEQ[®] calculates an equalization solution that corrects for both time and frequency response problems in the listening area and also performs a fully automated surround system setup.

Dolby

Dolby Digital

Dolby Digital is a multi-channel digital signal format developed by Dolby Laboratories.

A total of 5.1-channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequency effects.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved. This delivers a thrilling surround sound experience in the home.

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Dolby Digital Plus

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1-channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback device.

Dolby Pro Logic II

Dolby Pro Logic II is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5-channels to achieve an excellent surround effect.

The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a "three-dimensional" sound image offering a rich sense of presence for all stereo sources.

Dolby TrueHD

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format provides the facility to support up to 8 audio channels with a sampling frequency of 96 kHz/24 bit resolution and up to 6 audio channels with a sampling frequency of 192 kHz/24 bit resolution.

DTS

DTS

This is an abbreviation of Digital Theater System, which is a digital audio system developed by DTS. DTS delivers a powerful and dynamic surround sound experience, and is found in the world's finest movie theaters and screening rooms.

DTS 96/24

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1-channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

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DTS Digital Surround

DTS[™] Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1-channels of digital discrete surround sound.

DTS Express

DTS Express is an audio format supporting low bit rates (max. 5.1-channels, 24 to 256 kbps).

DTS-HD

This audio technology provides higher sound quality and enhanced functionality than the conventional DTS and is adopted as an optional audio for Blu-ray Disc.

This technology supports multi-channel, high data transfer speed, high sampling frequency, and lossless audio playback. Maximum 7.1-channels are supported in Blu-ray Disc.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is an improved version of the conventional DTS, DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1-channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-HD Master Audio

DTS-HD Master Audio is a lossless audio format created by Digital Theater System (DTS). This format provides the facility to support up to 8 audio channels with a sampling frequency of 96 kHz/24 bit resolution and up to 6 audio channels with a sampling frequency of 192 kHz/24 bit resolution. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS Neo:6™ Surround

Remote

DTS Neo:6[™] is a matrix decoding technology for achieving 6.1-channel surround playback with 2-channel sources. It includes "DTS Neo:6 Cinema" suite for playing movies and "DTS Neo:6 Music" suited for playing music.

Front panel



Audio

Apple Lossless Audio Codec

This is a codec for lossless audio compression method developed by Apple Inc. This codec can be played back on iTunes, iPod or iPhone. Data compressed to approximately 60 - 70% can be decompressed to exactly the same original data.

FLAC (Free Lossless Audio Codec)

FLAC stands for Free lossless Audio Codec, and is a lossless free audio file format. Lossless means that the audio is compressed without any loss in quality.

The FLAC license is as shown below.

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LFE

This is an abbreviation of Low Frequency Effect, which is an output channel that emphasizes low frequency effect sound. Surround audio is intensified by outputting 20 Hz to 120 Hz deep bass to the system subwoofer(s).

MP3 (MPEG Audio Layer-3)

This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD.

MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4

These are the names for digital compression format standards used for the encoding of video and audio. Video standards include "MPEG-1 Video", "MPEG-2 Video", "MPEG-4 Visual", "MPEG-4 AVC". Audio standards include "MPEG-1 Audio", "MPEG-2 Audio", "MPEG-4 AAC".

WMA (Windows Media Audio)

This is audio compression technology developed by Microsoft Corporation.

WMA data can be encoded using Windows Media® Player.

To encode WMA files, only use applications authorized by Microsoft Corporation. If you use an unauthorized application, the file may not work properly.

Sampling frequency

Sampling involves taking a reading of a sound wave (analog signal) at regular intervals and expressing the height of the wave at each reading in digitized format (producing a digital signal).

The number of readings taken in one second is called the "sampling frequency". The larger the value, the closer the reproduced sound is to the original.







Settings

Speaker impedance

This is an AC resistance value, indicated in Ω (ohms). Greater power can be obtained when this value is smaller.

Dialogue normalization function

This function operates automatically during playback of Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD sources. It automatically corrects the standard signal level for individual program sources.

Dynamic range

The difference between the maximum undistorted sound level and the minimum discernible level above the noise emitted by the device.

Downmix

This function converts the number of channels of surround audio to a lower number of channels and plays back according to the system's configuration.

Video

Progressive (sequential scanning)

This is a scanning system of the video signal that displays 1 frame of video as one image. Compared to the interlace system, this system provides images with less flickering and jagged edges.

Network

AirPlay

AirPlay sends (plays) contents recorded in iTunes or on an iPhone/iPod touch/iPad to a compatible device via the network.

WEP Key (network key)

This is key information used for encrypting data when conducting data transfer. On this unit, the same WEP key is used for data encryption and decryption, so the same WEP key must be set on both devices in order for communications to be established between them.

Wi-Fi[®]

Wi-Fi Certification assures tested and proven interoperability by the Wi-Fi Alliance, a group certifying interoperability among wireless LAN devices.

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suitable for constructing a simplified network.

Network Names (SSID: Service Set Identifier)

When forming wireless LAN networks, groups are formed to prevent interference, data theft, etc. These groups are based on "SSID (network names)". For enhanced security, a WEP key is set so that communication is unavailable unless both the "SSID" and the WEP key match. This is

client.

compatible with more secure AES encryption. WPA-PSK/WPA2-PSK (Pre-shared Key)

This is a new version of the WPA established by the Wi-Fi Alliance,

This is a simple authentication system for mutual authentication when a preset character string matches on the wireless LAN access point and

WPA (Wi-Fi Protected Access)

Contents

the conventional SSID (network name) and WEP key (network key), it also uses a user identification function and encrypting protocol for stronger security.

Connections

WPA2 (Wi-Fi Protected Access 2)

This is a security standard established by the Wi-Fi Alliance. In addition to

When transmitting digital signals between devices, this copyright protection technology encrypts the signals to prevent content from being copied without authorization.

Pairing

HDCP

Pairing (registration) is an operation that is required in order to connect a Bluetooth device to this unit using Bluetooth. When paired, the devices authenticate each other and can connect without mistaken connections occurring.

When using Bluetooth connection for the first time, you need to pair this unit and the Bluetooth device to be connected.

Protection circuit

Settings

Others

This is a function to prevent damage to devices within the power supply when an abnormality such as an overload, excess voltage occurs or over temperature for any reason.

Rear panel



Remote



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COMPATIBLE

DOLBY

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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.









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Specifications

Audio section Power amplifier		
Rated output:	Front:	
naled output.		
	50 W + 50 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)	
	60 W + 60 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	
	Center:	
	50 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)	
	60 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	
	Surround:	
	50 W + 50 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)	
	60 W + 60 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	
	4 – 16 Ω/ohms	







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Analog	
Input sensitivity:	130 mV
Frequency response:	10 Hz – 100 kHz — +1, –3 dB (Direct mode)
S/N:	98 dB (IHF-A weighted, Direct mode)
Phono equalizer	
Input sensitivity:	2.5 mV
RIAA deviation:	±1 dB (20 Hz to 20 kHz)
S/N:	74 dB (IHF-A)
Distortion factor:	0.03 % (1 kHz, 3 V)

Video section

 Standard video connectors 	
Input/output level and impedance:	1 Vp-p, 75 Ω/ohms
Frequency response:	5 Hz – 10 MHz — 0, –3 dB









Contents Connections	Playback Settings	Tips Appendix
Tuner section	[FM]	[AM]
	(Note: μ V at 75 Ω /ohms, 0 dBf = 1 x 10 ⁻¹⁵ W)	
Reception frequency range:	87.5 MHz – 107.9 MHz	520 kHz – 1710 kHz
Effective sensitivity:	1.2 μV (12.8 dBf)	18 μV
50 dB sensitivity:	MONO – 2.8 µV (20.2 dBf)	
S/N ratio:	MONO – 70 dB (IHF–A weighted, Direct mode) STEREO – 67 dB (IHF–A weighted, Direct mode)	
Distortion:	MONO — 0.7 % (1 kHz) STEREO — 1.0 % (1 kHz)	
Wireless LAN section		
Network type (wireless LAN standard):	Conforming to IEEE 802.11a/b/g/n (Wi-Fi [®] compliant) *1	
Security:	WEP 64 bit, WEP 128 bit	
	WPA/WPA2-PSK (AES)	
	WPA/WPA2-PSK (TKIP)	

Used frequency range:

*1 The Wi-Fi® CERTIFIED Logo and the Wi-Fi CERTIFIED On-Product Logo are registered trademarks of the Wi-Fi Alliance.

2.4 GHz, 5 GHz









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Bluetooth section	
Communications system:	Bluetooth Specification Version 4.1
Transmission power:	Bluetooth Specification Power Class 1
Maximum communication range:	Approx. 98.4 ft/30 m in line of sight *2
Used frequency range:	2.4 GHz
Modulation scheme:	FHSS (Frequency-Hopping Spread Spectrum)
Supported profiles:	A2DP (Advanced Audio Distribution Profile) 1.2
	AVRCP (Audio Video Remote Control Profile) 1.5
Corresponding codec:	SBC
Transmission range (A2DP):	20 Hz – 20,000 Hz

*2 The actual communication range varies depending on the influence of such factors as obstructions between devices, electromagnetic waves from microwave ovens, static electricity, cordless phones, reception sensitivity, antenna performance, operating system, application software etc.

General

Operating temperature:	41 °F - 95 °F (5 °C - 35 °C)
Power supply:	AC 120 V, 60 Hz
Power consumption:	210 W
Power consumption in standby mode:	0.2 W *
Power consumption in CEC standby mode:	0.5 W

* When "Network Control" in the menu is set to "Off In Standby" and "HDMI PassThrough" is set to "Off".

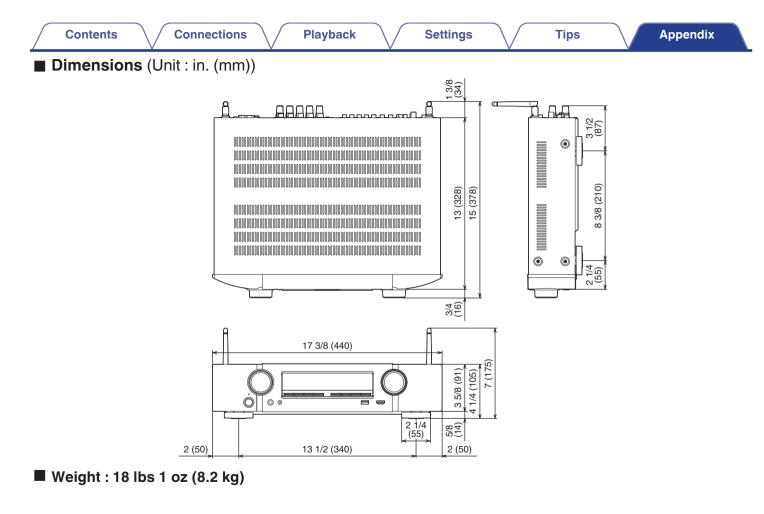
For purposes of improvement, specifications and design are subject to change without notice.











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Open Source Used	Version
bridge-utils	2.8
busybox	1.21.1
ebtables	2.0.10-4
Linux kernel	3.10.74
mtd-utils	1.4.3
ntfs-3g_ntfsprogs	2011.4.12
ntpclient	2007
u-boot	2015.01
wireless-tools	version 29



Front panel

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Curl-7 24 0

Open Source UsedVersionffmpeg0.8.3glibc2.9libmms0.6.2QT5.4.2cifs-units6.7

Babel

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_____V

Connections

e2fsprogs-libs-1.40.8/lib/uuid

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Front panel



getopt

http://cvsweb.netbsd.org/bsdweb.cgi/src/lib/libc/stdlib/

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Remote



□ libpcap-1.4.0

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mDNS 320.10.80

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To accommodate license compatibility with the widest possible range of client code licenses, the shared library code, which is linked at runtime into the same address space as the client using it, is licensed under the terms of the "Three-Clause BSD License".

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mongoose

https://github.com/cesanta/mongoose/

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Front panel





openssl-1.0.0d

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Connections

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Tips

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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Settings

D portmap-6.0

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pstdint.h-0.1.12

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rl78flash 2000.3.1

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Front panel





Stricpy.c , v1.11

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Linyxml 2002.4.3

www.sourceforge.net/projects/tinyxml

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Front panel





tions \ /

Playback

Settings

Tremor

http://wiki.xiph.org/index.php/Tremor

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🛛 zlib

http://www.zlib.net/

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005

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ENGLISH

ESPAÑOL

marantz[®]

AV Surround Receiver NR1510

Quick Start Guide

Guide de démarrage rapide / Guía de inicio rápido

0.0000

8.000

Read Me First....

Lisez-moi en premier.... / Lea esto primero.... Please do not return this unit to the store. If you need help... Check our AVR setup tips online Us.Marantz.com/SetupTips Ca.Marantz.com/SetupTips

Call for Assistance **1-855-ONE-Marantz (USA)** 1-855-663-6272 **1-800-668-0652 (Canada)**

Monday – Friday 10:00AM to 10:00PM E.S.T Saturday 12:00PM to 8:00PM E.S.T

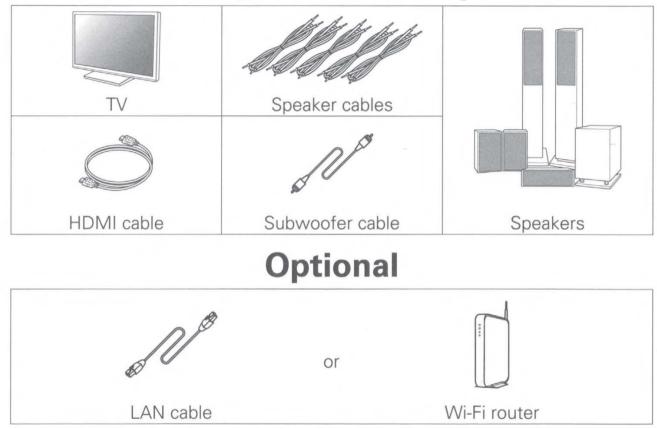
Welcome

Thank you for choosing a Marantz AV receiver.

This guide provides step-by-step instructions for setting up your AV receiver.

Before You Begin

Required for Setup



- When connecting this unit to a device that is compatible with the Deep Color, 4K, ARC and eARC functions, use a "High Speed HDMI cable with Ethernet" that displays the HDMI logo.
- These drawings are for illustrative purposes only and may not represent the actual product(s).

what'	s In the Box
Quick Start Guide	FM indoor antenna
Safety Instructions	AM loop antenna
Notes on radio	Sound calibration microphone
Warranty (for USA / for CANADA)	Sound calibration microphone stand
Cable labels	Remote control unit (RC040SR)
Receiver	R03/AAA batteries
Power cord	External antennas for Bluetooth / wireless connectivity

• The included sound calibration microphone stand is convenient for use when performing Speaker Calibration. Using your own tripod or the supplied Sound calibration microphone stand enables settings to be automatically configured to the optimum listening environment, providing exceptionally high performance. Interant: External Anternas

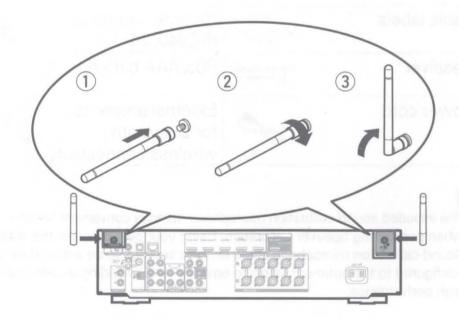
Important: External Antennas

The removable external antennas are required for both Bluetooth and Wireless network connectivity. Please make sure to connect the antennas before attempting to use the Bluetooth or Wi-Fi features of the NR1510.

Connecting the external antennas for Bluetooth / Wireless connectivity

For each of the two antennas:

- ① Place the antenna evenly over the antenna terminal located at the upper left or right corner of the rear panel.
- ② Turn the antenna clockwise until it is fully connected. Do not over tighten.
- ③ Rotate the antenna upwards for the best possible reception.

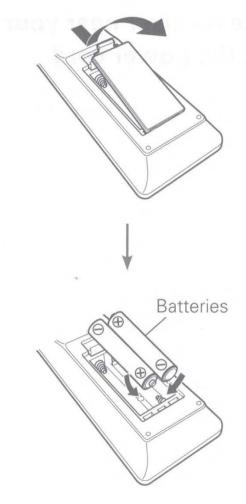


Setup

There are four steps to the setup process.

1	Installing batteries in the remote control unit
2	Connecting the receiver
3	Following the On-Screen Setup Assistant
4	Downloading the Mobile Apps

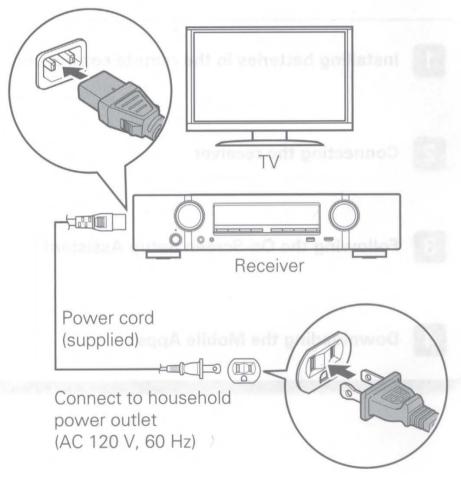




2 Connecting the receiver

1) Place the receiver near your TV and connect the power cord

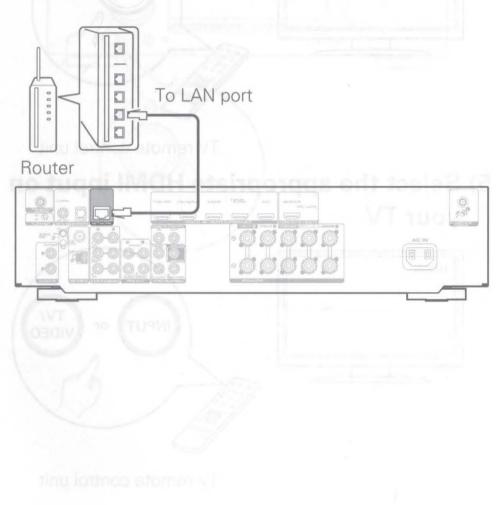
There are four staps to the setup process.



2) Connect the receiver to your home network

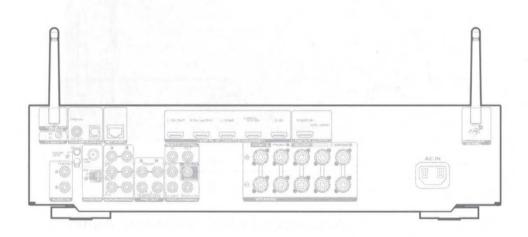
Wired LAN

Connect an Ethernet cable (not included) between your receiver and your network router.

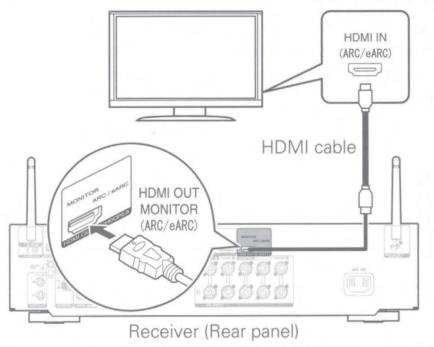


Wireless LAN

When connecting to wireless LAN (Wi-Fi), follow the instructions in "Connecting the external antennas for Bluetooth / Wireless connectivity" and connect the antennas.

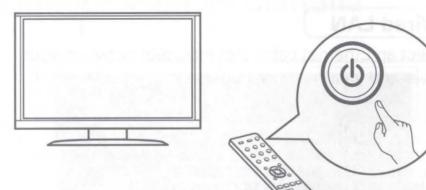


3) Connect the receiver to your TV with 4) Turn on the TV an HDMI cable



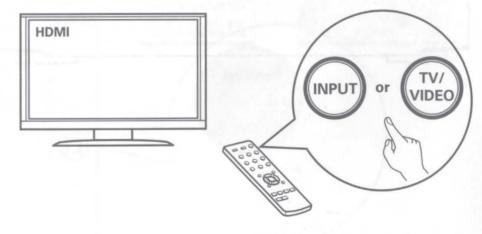
ARC (Audio Return Channel) and eARC (Enhanced Audio **Return Channel) support:**

If your TV supports ARC, your TV can send audio back to the AV receiver when you are using your TV's built-in video sources (TV tuner, Smart TV streaming services, etc.) ARC requires that you enable HDMI CEC on your TV. Please refer to your TV's Owner's Manual for instructions on how to setup HDMI CEC. In addition, if your TV supports eARC, it can also send back high bitrate audio formats such as Dolby TrueHD and DTS-HD Master Audio. Please refer to your TV's Owner's Manual for additional information about enabling the eARC function.



TV remote control unit

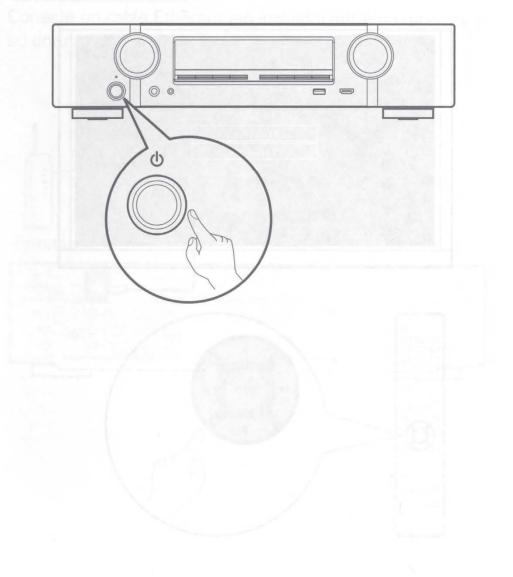
5) Select the appropriate HDMI input on your TV



TV remote control unit

6) Turn on the receiver

• Press 🕁 to turn on the receiver.



7) Verify the connection

• Verify that you can see this screen on your TV.

Please	select a langu	age
	English	
	Français	
	Español	

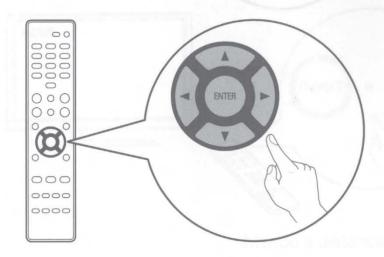
If this screen is not displayed, please go back and retry the steps again in the recommended sequence.

3 Following the On-Screen Setup Assistant

Now TV is connected to the receiver.

The Setup Assistant will walk you through connecting and configuring your speakers and components to your Marantz receiver. Please use the remote control and follow the on-screen instructions.





Downloading the Mobile Apps

Download both the "HEOS" App and the "Marantz 2016 AVR Remote" App for the full home entertainment experience. The HEOS App is required to access online music through your AVR.

HEOS



The HEOS App allows you to explore, browse, and play music from many online streaming services or from your own music library.

Marantz 2016 AVR Remote



Control your new AVR with the latest Marantz 2016 AVR Remote App. Volume control, sound mode selection and advanced settings are always only a tap away.







Owner's Manual

- For more information, visit www.marantz.com
- Refer to the Online Manual for other functions information and operation procedure details.
 manuals.marantz.com/NR1510/NA/EN/



Online Manual

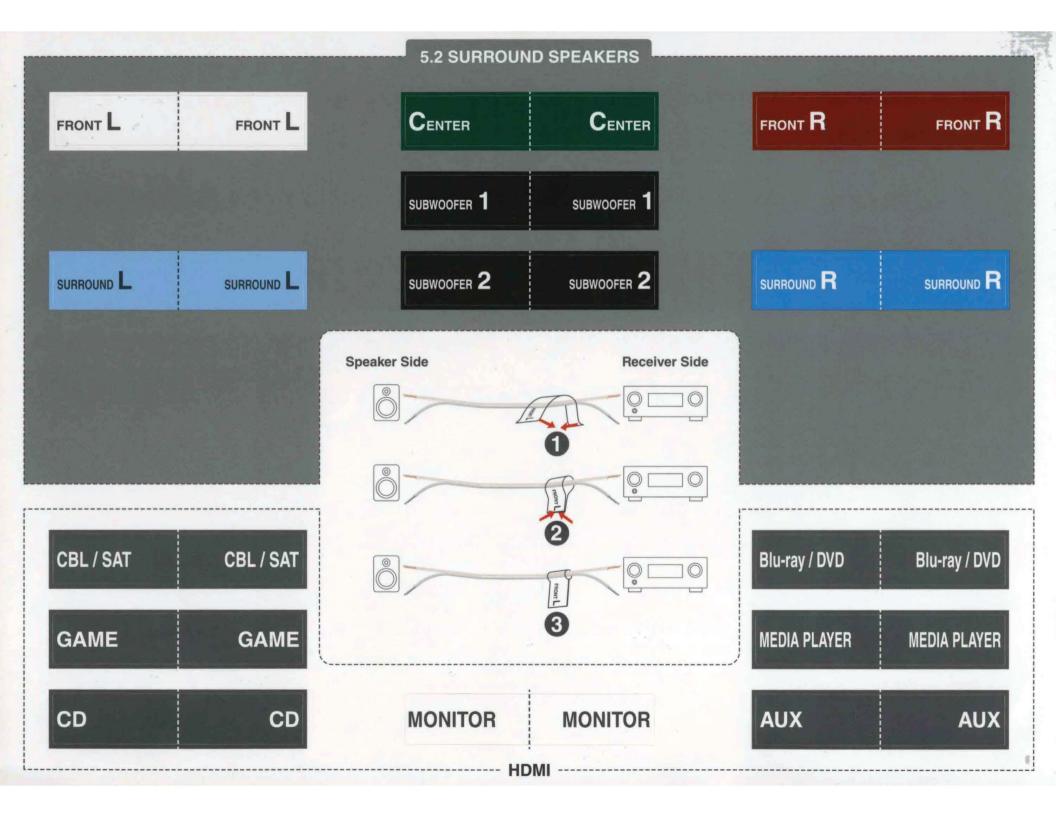


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Product information

marantz





NR1510 MARANTZ NR1510 SLIM 5.2CH 4K ULTRA HD AV RECEIVER WITH HEOS BUILT-IN

Experience exceptional audio performance from the slim profile Marantz NR1510 5.2ch 4K Ultra HD AV receiver that drives elevated surround sound and high-fidelity audio from a compact chassis. At half the height of a traditional AV receiver, the NR1510 features the latest in HDMI connectivity and delivers high-resolution surround sound from Dolby TrueHD and DTS-HD Master Audio. Stream music from popular online sources and control the NR1510 with voice control compatibility via Amazon Alexa, Google Assistant and Apple Siri.

Highlights

- Slim profile that's half the height of a traditional AV receiver delivers exceptional performance and the most musical sound
- 5-channel discrete power amplifier, 50W per channel (8-ohm, 20Hz 20kHz, 0.08% THD)
- 6 HDMI inputs with full HDCP 2.3 support
- Supports Dolby Vision, Hybrid Log-Gamma (HLG), eARC and ALLM for enhanced picture and audio
- 4K/60 Hz full-rate pass-through, 4:4:4 color resolution, HDR10 and BT.2020
- Surround format support for Dolby TrueHD and DTS-HD Master Audio
- ALAC, FLAC and WAV lossless file decoding up to 24-bit/192-kHz for high-resolution listening
- HEOS Built-in for multi-room streaming, music streaming and voice control
- Built-in Wi-Fi with 2.4GHz/5GHz dual band support (dual antenna)
- Supports all major voice control agents and streaming services
- Integrated phono input to directly connect your turntable



because music matters

marani

NR1510 MARANTZ NR1510 SLIM 5.2CH 4K ULTRA HD AV RECEIVER WITH HEOS BUILT-IN



MULTICHANNEL SURROUND	
DTS HD Master / DTS:X / DTS Neural:X	0/-/-
DTS Virtual:X	-
IMAX Enhanced	-
Dolby TrueHD / Dolby Atmos/Dolby Atmos Height Virtualization	0/-/-
Dolby ProLogic IIz / Dolby Surround	-/-
Auro 3D / Auromatic	- / -
Multichannel Stereo	0
Max Number of Processing (Preamp) Channels	5.1
Audyssey	MultEQ
Audyssey Dynamic EQ / Dynamic Volume	0/0
Compressed Audio Enhancer: MDAX2	0
NETWORK	
HEOS Multi-Room and Streaming / Network Audio Streaming	0/0
Lossy Formats: MP3 / WMA / AAC	0/0/0
Lossless Formats: FLAC / ALAC / WAV	0/0/0
FLAC HD 192/24 / WAV 192/24 / ALAC 192/24	0/0/0
DSD Audio Streaming	up to DSD5.6
Gapless Playback	o (FLAC, WAV ,ALAC ,DSD)
AirPlay2 Audio Streaming	0
Internet Radio (Tune In)	o (Tuneln)
Spotify connect / Deezer / TIDAL / Napster / Pandora / SiriusXM	0/0/0/0/0
Compatible with Remote APP (iOS/Android)	Marantz 2016 AVR Remote
Ethernet / Wi-Fi	o / o (dual antenna/ dual band)
Ethernet / Wi-Fi Bluetooth	o / o (dual antenna/ dual band) o
Bluetooth	
Bluetooth HDMI	0
Bluetooth HDMI 4K 60Hz 4:4:4 resolution / HDCP 2.3 eARC (Enhanced Audio Return Channel)	0 0/0
Bluetooth HDMI 4K 60Hz 4:4:4 resolution / HDCP 2.3	0 0/0
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Bluetooth HDMI 4K 60Hz 4:4:4 resolution / HDCP 2.3 eARC (Enhanced Audio Return Channel) Analog to HDMI scaling HDMI to HDMI scaling GUI Overlay on HDMI	0 0/0 - - 0
Bluetooth HDMI 4K 60Hz 4:4:4 resolution / HDCP 2.3 eARC (Enhanced Audio Return Channel) Analog to HDMI scaling HDMI to HDMI scaling GUI Overlay on HDMI HDR / HLG / Dolby Vision	0 0/0 0 -
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Bluetooth HDMI 4K 60Hz 4:4:4 resolution / HDCP 2.3 eARC (Enhanced Audio Return Channel) Analog to HDMI scaling HDMI to HDMI scaling GUI Overlay on HDMI HDR / HLG / Dolby Vision 3D Signal Pass-Through HDMI Pass-Through In Standby Mode MULTIROOM / CI HEOS Multi-Room Integrated HEOS Link Compatibility: IR/ IP Multi-Room zones Zone Audio Source: HDMI / Opt, Coax / Network, USB / Analog IP Control / RS232 Control / Web Control / App Control	0 0 / 0 0 - - 0 0 (HDR10) / 0 / 0 0 0 0 0 0 0 - - 0 0 0 - - - 0 0 0 0 - - - - - - - - - - - - -
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Bluetooth HDMI 4K 60Hz 4:4:4 resolution / HDCP 2.3 eARC (Enhanced Audio Return Channel) Analog to HDMI scaling HDMI to HDMI scaling GUI Overlay on HDMI HDR / HLG / Dolby Vision 3D Signal Pass-Through HDMI Pass-Through in Standby Mode MULTIROOM / CI HEOS Multi-Room Integrated HEOS Link Compatibility: IR/ IP Multi-Room zones Zone Audio Source: HDMI / Opt, Coax / Network, USB / Analog IP Control / RS232 Control / Web Control / App Control Domotz Pro / IHIJI compatible	0 0 / 0 0 - - 0 0 0 (HDR10) / 0 / 0 0 0 0 0 - - - - - - - - - - - - -
Bluetooth HDMI 4K 60Hz 4:4:4 resolution / HDCP 2.3 eARC (Enhanced Audio Return Channel) Analog to HDMI scaling HDMI to HDMI scaling GUI Overlay on HDMI HDR / HLG / Dolby Vision 3D Signal Pass-Through HDMI Pass-Through in Standby Mode MULTIROOM / CI HEOS Multi-Room Integrated HEOS Link Compatibility: IR/ IP Multi-Room zones Zone Audio Source: HDMI / Opt, Coax / Network, USB / Analog IP Control / RS232 Control / Web Control / App Control Domotz Pro / IHIJI compatible INPUTS/OUTPUTS	0 0 / 0 0 - - 0 0 0 (HDR10) / 0 / 0 0 0 0 0 - - - / - / - 0 0 / 0 - - - / - / - 0 / 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Bluetooth HDMI 4K 60Hz 4:4:4 resolution / HDCP 2.3 eARC (Enhanced Audio Return Channel) Analog to HDMI scaling HDMI to HDMI scaling GUI Overlay on HDMI HDR / HLG / Dolby Vision 3D Signal Pass-Through HDMI Pass-Through in Standby Mode MULTIROOM / CI HEOS Multi-Room Integrated HEOS Link Compatibility: IR/ IP Multi-Room zones Zone Audio Source: HDMI / Opt, Coax / Network, USB / Analog IP Control / RS232 Control / Web Control / App Control Domotz Pro / IHIJI compatible INPUTS/OUTPUTS VIDE0 Composite In / Out	0 0/0 0 - - 0 0(HDR10)/0/0 0 0 0 0 0 0 0 0 0 0 0 0 0
Bluetooth HDMI 4K 60Hz 4:4:4 resolution / HDCP 2.3 eARC (Enhanced Audio Return Channel) Analog to HDMI scaling HDMI to HDMI scaling GUI Overlay on HDMI HDR / HLG / Dolby Vision 3D Signal Pass-Through HDMI Pass-Through in Standby Mode MULTIROOM / C1 HEOS Multi-Room Integrated HEOS Link Compatibility: IR/ IP Multi-Room zones Zone Audio Source: HDMI / Opt, Coax / Network, USB / Analog IP Control / RS232 Control / Web Control / App Control Domotz Pro / IHIJI compatible INPUTS/OUTPUTS VIDEO	0 0/0 0 - - 0 0(HDR10)/0/0 0 0 0 0 0 - -/-/-/- 0/0 0/0

AUDIO		
Analog In / Out		3 / -
Phono (MM) In		0
Digital In: Optical / Coaxia	al	1/1
Multi-Room Out: Analog	/ Digital	-/-
USB Audio / Made for iPc	od / Made for iPhone	0/-/-
Multichannel Pre Out		o (2.2) / -
Subwoofer Out		2
7.1 Multichannel Input		-
OTHER		
Speaker Terminal: Gold Pl	lated Screw / Regular Screw	- / o
Speaker A / B		-
Bi-Amp Drive		-
Multi-Room Speaker Tern	ninal	-
Front Inputs: Audio / Com	posite / Digital (Opt) / HDMI / USB	-/-/0/0
OTHERS		
FL Display		1 line
Graphic User Interface - 0	GUI	Hybrid GUI
ISF Certification		-
GUI Languages		3
Setup Assistant		0
Smart Select		0
Firmware Update by Netv	vork / USB	0/0
Variable Cross Over		0
Optimized Bass Redirection	าท	0
Bass Sync		-
ECO Mode		0
Auto Power Off		0
Sleep Timer		0
SPECIFICATIONS		
Number of Poweramps		5
Number of Speaker Termi	nals	5
	Hz - 20 kHz, 0.08% 2ch Drive)	50 W
Power Output (6 ohm, 1 k		60 W
Power Output (6 ohm, 1 k		100 W
GENERAL		100 W
System Remote Control		RC040SR
Power Consumption in W	· · · · · · · · · · · · · · · · · · ·	180
Power Consumption No-S		
Standby Consumption in V		- 0.2 (with CEC 0.5)
Maximum Dimensions		0.2 (With 0E0 0.3)
Antenna Horizontal: W x		17.2 x 1/ 0 x / 1
		17.3 x 14.9 x 4.1
Antenna Vertical: W x D x		17.3 x 14.9 x 6.9
w/o Antenna: W x D x H (,11111)	17.3 x 14.5 x 4.1
Weight (lbs)		18.1
	Diast	000027044050
NR1510U1B	Black	699927241650

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* All specs can be subject to change.

Sound United

Vista, CA 92081 United States

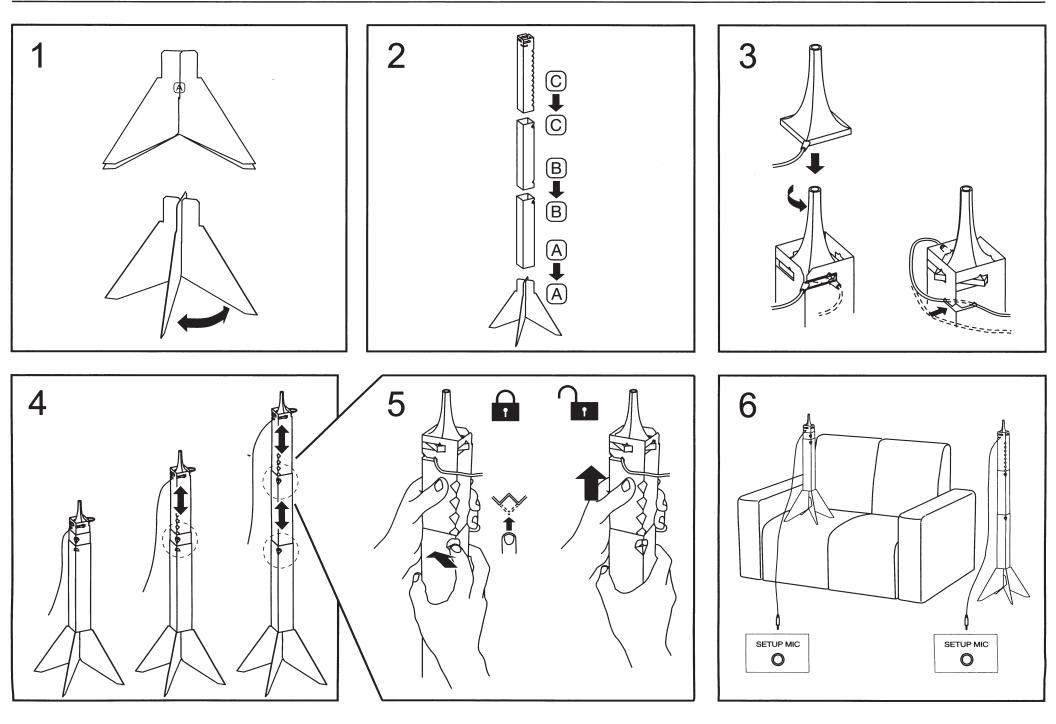
1 Viper Way

* This feature is not available in all countries.

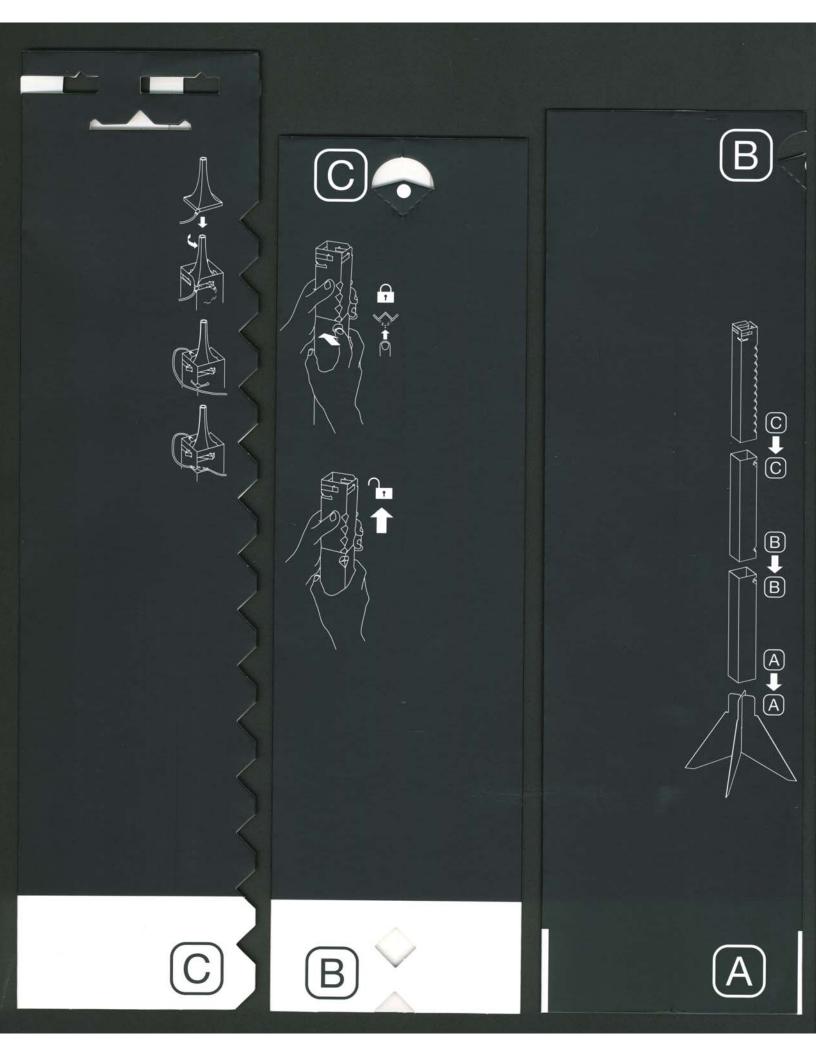
Microphone Stand Assembly Instructions

Montageanleitung Mikrofonständer

Instructions d'assemblage du support de microphone Istruzioni per il montaggio del supporto microfono Instrucciones de montaje del soporte del micrófono Montage-instructies Microfoonstatief Monteringsanvisning för mikrofonställ Инструкции по сборке стойки под микрофон Instrukcje montażu stojaka na mikrofon マイクスタンド組み立て説明書 麦克风支架组装说明







USA CANADA

FCC Information (For US customers)

- 1. COMPLIANCE INFORMATION
- Product Name: Network Audio Receiver / AV Surround Receiver
- Model Number: NR1200 / NR1510 / NR1710 / SR5014 / SR6014
- CONTAINS TRANSMITTER MODULE FCC ID: RAX-AIOS4-0S

This product complies with Part 15 of the FCC Rules. 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.

Marantz America, LLC

(a D&M Holdings Company) 100 Corporate Drive, Mahwah, NJ, 07430, U.S.A.

Tel. 201-762-6500

2. 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 Marantz may void your authority, granted by the FCC, to use the product.

3. IMPORTANT (For Network)

When connecting this product to network hub or router, use only a shielded STP or ScTP LAN cable which is available at retailer. Follow all installation instructions. Failure to follow instructions could void your authority, granted by the FCC, to use the product.

4. CAUTION (For Bluetooth/Wi-Fi)

- To comply with FCC RF exposure compliance requirement, 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
- . 5.15-5.25 GHz band is restricted to indoor operations only.

5. NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- . Connect the product into an outlet on a circuit different from that to which the receiver is connected

· Consult the local retailer authorized to distribute this type of product or an experienced radio / TV technician for help.

INFORMATION FCC (Pour la clientèle étasunienne)

1. INFORMATIONS DE CONFORMITE

- Nom du produit: Ampli-tuner audio réseau / Récepteur Audio-Vidéo
- Numéro de modèle: NR1200 / NR1510 / NR1710 / SR5014 / SR6014
- CONTIENT MODULE ÉMETTEUR FCC ID: RAX-AIOS4-0S

Ce produit est conforme à la section 15 du règlement FCC. L'utilisation est sujette aux deux conditions suivantes: (1) ce produit ne provoque pas d'interférences nocives et (2) ce produit doit accepter toute interférence, y compris les interférences pouvant entraîner un fonctionnement non souhaitable.

Marantz America, LLC (a D&M Holdings Company) 100 Corporate Drive Mahwah, NJ, 07430, U.S.A. Tel. 201-762-6500

2. REMARQUE IMPORTANTE: NE PAS MODIFIER CE PRODUIT

Ce produit, lorsqu'il est installé comme indiqué dans les instructions de ce manuel, est conforme aux normes FCC. Les modifications qui ne sont pas expressément approuvées par Marantz peuvent annuler l'autorisation FCC à utiliser le produit.

3. IMPORTANT (Pour réseau)

Lors du branchement de ce produit à un routeur ou à un concentrateur réseau, n'utilisez qu'un câble STP ou ScTP LAN blindé (disponible chez un détaillant).

vivre toutes instructions d'installation. Dans le cas contraire, cela pourrait annuler l'autorisation FCC à utiliser cet appareil

4. PRECAUTION (Pour Bluetooth/Wi-Fi)

• Afin de répondre aux exigences de conformité FCC sur l'exposition aux RF, une distance d'au moins 20 cm doit être maintenue entre cet appareil et toutes les personne

- · Cet appareil ainsi que son antenne ne doivent pas se trouver à proximité immédiate, ni être utilisés en association avec une autre antenne ou un autre émetteur.
- La bande 5,15-5,25 GHz est limitée uniquement à une utilisation en intérieur.

5. NOTE

Ce produit a été testé et il est conforme aux limitations des dispositifs numériques de Class B, en vertu de la section 15 du rèalement FCC. Ces limitations sont concues pour fournir une protection raisonnable contre les interférences nocives sur une installation résidentielle.

Ce produit génère, utilise et émet de l'énergie de radiofréquence et s'il n'est pas installé et utilisé conformément aux instructions, il peut entraîner des interférences néfastes avec les communications radio. Toutefois, nous ne pouvons pas garantir l'absence d'interférence avec certaines installations. En cas d'interférences néfastes sur la réception de la radio ou de la télévision provoquées par cet appareil, survenant au moment de l'activation ON ou de la désactivation OFF, nous conseillons à l'utilisateur d'essayer de corriger l'interférence comme suit:

- Réorienter ou déplacer l'antenne.
- Augmenter la distance entre l'équipement et le récepteur

Connecter l'appareil à la prise murale d'un circuit différent de celui du récepteur.
Consulter un revendeur local agréé pour la distribution de ce type de produit ou un technicien radio / TV expérimenté.

IC Information (For Canadian customers)

CONTAINS TRANSMITTER MODULE IC: 4711A-AIOS40S

This product complies with RSS-247 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

1 PRODUCT

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

- (i) the device for operation in the band 5,150 5,250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems
- (ii) high-power radars are allocated as primary users (i.e. priority users) of the bands 5,250 5,350 MHz and 5,650 - 5,850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Informations sur IC (pour les clients canadiens)

1. APPAREIL

CONTIENT MODULE ÉMETTEUR IC: 4711A-AIOS40S

Cet appareil est conforme à la norme CNR-247 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.

- (i) les dispositifs fonctionnant dans la bande 5 150 5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.
- (ii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250 – 5 350 MHz et 5 650 – 5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL

For Canadian customers / Pour les clients canadiens: CAN ICES-3 (B) / NMB-3 (B)

"for indoor use only"

RF Exposure Information

This equipment complies with FCC / IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR). Cet équipement est conforme aux normes d'exposition aux radiations FCC / IC définies pour un environnement non contrôlé et satisfait les directives d'exposition à la radiofréquence (RF) dans le supplément C des OET65 et RSS-102 des règles d'exposition à la fréquence radio (RF) IC. Cet quipement a de très faibles niveaux d'énergie RF qui sont jugés conformes sans test de taux d'absorption spécifique (SAR).

marantz

EU

[ENGLISH]

1. DECLARATION OF CONFORMITY

Hereby, [D&M Holdings Inc.] declares that our product is in compliance with following EU/EC Directives. The full text of the EU declaration of conformity is available at the following internet addrass

CE

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets RE 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

[DEUTSCH]

1. ÜBEREINSTIMMUNGSERKLÄRUNG

Hiermit erklärt [D&M Holdings Inc.], dass unser Produkt der, dass die folgenden EU/EC-Richtlinien entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügba

2. WICHTIGER HINWEIS: NEHMEN SIE KEINE VERÄNDERUNGEN AN DIESEM PRODUKT VOR

Wenn dieses Produkt entsprechend dieser Bedienungsanleitung aufgebaut wird, entspricht es den Anforderungen der RE-Richtlinie. Veränderungen am Produkt können zu gefährlicher Funk- und EMV-Strahlung führen

3. VORSICHT

Zwischen dieses Produkts und Personen muss ein Schutzabstand von 20 cm eingehalten werden. Dieses Produkt und seine Antenne dürfen nicht neben anderen Antennen oder Sendern aufgestellt oder zusammen mit ihnen verwendet werden.

[FRANCAIS]

1. DECLARATION DE CONFORMITE

Le soussigné, [D&M Holdings Inc.], déclare que notre produit est conforme à la directive UE/CE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante:

2. MISE EN GARDE IMPORTANTE : NE JAMAIS MODIFIER CE PRODUIT

Si toutes les consignes indiquées dans ce mode ont été respectées pendant son installation, ce produit est conforme aux directives RE. Toute modification du produit risquerait alors de générer des radiations radio et EMC dangereuses.

3. ATTENTION

L'appareil devra être située à une distance de 20 cm au moins des personnes.

Ce produit ainsi que son antenne ne devront en aucun cas être utilisés à proximité d'une autre antenne ou transmetteur

[ITALIANO]

1. DICHIARAZIONE DI CONFORMITÀ

Il fabbricante, [D&M Holdings Inc.], dichiara che il nostro prodotto è conforme alla direttiva UE/CE.Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: 2. AVVERTENZA IMPORTANTE: NON MODIFICARE QUESTO PRODOTTO

Se installato come indicato nelle istruzioni del presente manuale, questo prodotto soddisfa i

requisiti della direttiva RE. Eventuali modifiche apportate al prodotto potrebbero causare pericolose radiazioni radio ed EMC.

3. ATTENZIONE

È necessario mantenere una distanza minima di 20 cm tra questo prodotto e le persone. Questo prodotto e la relativa antenna non devono essere posizionati in prossimità di altre antenne o trasmettitori e non devono essere utilizzati congiuntamente a questi ultimi.

[ESPAÑOL]

1. DECLARACIÓN DE CONFORMIDAD

Por la presente, [D&M Holdings Inc.], declara que nuestro producto es conforme con la Directivas UE/CE. El texto completo de la declaración UE de conformidad está disponible en la dirección

2. NOTA IMPORTANTE: NO MODIFIQUE ESTE PRODUCTO

Este producto, si es instalado de acuerdo con las instrucciones contenidas en este manual, cumple los requisitos de la directiva RE. La modificación del producto puede producir radiación de Radio v EMC peligrosa

3. PRECAUCIÓN

Se debe mantener una separación de al menos 20 cm del producto y las personas. Este producto y su antena no debe instalarse ni utilizarse conjuntamente con otra antena o transmisor

[NEDERLANDS]

1. EENVORMIGHEIDSVERKLARING

Hierbij verklaar ik, [D&M Holdings Inc.], dat ons product conform is met Richtlijn EU/EG. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: 2. BELANGRIJKE MEDEDELING:

BRENG AAN DIT PRODUCT GEEN AANPASSINGEN AAN

Dit product, indien geïnstalleerd volgens de aanwijzingen in deze gebruiksaanwijzing, voldoet aan de vereisten van de RE-richtlijn. Aanpassing van dit product kan gevaarlijke radio- en EMC-straling tot gevolg hebben.

3. LET OP

Houd tussen en personen altijd een afstand van tenminste 20 cm aan.

Dit product en zijn antenne mogen niet in de buurt van een andere antenne of zender worden geplaatst of in combinatie daarmee worden gebruikt.

Radio Specification (for Europe model)

Туре	Frequency Range	Max. RF Power -	
Bluetooth	2,402 – 2,480 MHz	20 dBm	
WLAN (2.4 GHz)	2,400 – 2,483.5 MHz	20 dBm	
5 GHz Radio	5,150 – 5,250 MHz	23 dBm	
	5,250 – 5,350 MHz	23 dBm	
	5,470 – 5,725 MHz	30 dBm	

[SVENSKA]

1. ÖVERENSSTÄMMELSESINTYG

Härmed försäkrar [D&M Holdings Inc.], att vår produkt överensstämmer med direktiv EU/EC. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: 2. VIKTIGT: APPARATEN FÅR INTE MODIFIERAS

Under förutsättning att apparaten installeras enligt anvisningarna--i denna bruksanvisning, uppfyller denna kraven i RE-direktivet. Ev. modifiering av apparaten kan resultera i farlig radio- och elektromagnetisk strålning.

3. FÖRSIKTIGT

Se till att det finns ett avstånd på minst 20 cm mellan apparatens och personer i omgivningen. Apparaten och dess antenn får inte placeras eller användas i närheten av andra antenner eller sändare.

[РУССКИЙ]

1. СЕРТИФИКАТ СООТВЕТСТВИЯ

Настоящим, [D&M Holdings Inc.], заявляет, что наш продукт ссоответствует Директиве EU/EC. Полный текст декларации соответствия EC можно получить по следующему интернет-адресу: 2. ВАЖНО! НЕ ИЗМЕНЯЙТЕ ДАННЫЙ ПРОДУКТ

Продукт, установленный согласно инструкциям в настоящем руководстве, отвечает требованиям директивы RE. Изменение продукта может привести к появлению опасного электромагнитного излучения

3. ПРЕДУПРЕЖДЕНИЕ

Не приближайтесь к данного изделия ближе, чем на 20 см.

Запрещается использовать данный продукт и антенну с другой антенной или передатчиком. [POLSKI]

1. DEKLARACJA ZGODNOŚCI

[D&M Holdings Inc.], niniejszym oświadcza, że nasz produkt jest zgodny z dyrektywą UE/WE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem inte

2. UWAGA: MODYFIKACJA TEGO URZĄDZENIA JEST ZABRONIONA

Po zainstalowaniu zgodnie z instrukcjami zawartymi w niniejszej instrukcji obsługi urządzenie to będzie spełniać wymogi dyrektywy RE. Wprowadzanie modyfikacji do tego urządzenia może skutkować powstaniem niebezpiecznego promieniowania elektromagnetycznego oraz radiowego. 3. OSTRZEŻENIE

Między tego produktu i wszelkimi osobami musi być zachowana odległość przynajmniej 20 cm. Urządzenia wraz z anteną nie można instalować w połączeniu z inną anteną lub nadajnikiem

<EU/EC Directive> RE: 2014/53/EU

<EU declaration of conformity URL: http://manuals.marantz.com/CEdeclaration>

D&M Holdings Inc.

2-1 Nissin-cho, Kawasaki-ku, Kawasaki, Kanagawa, 210-8569 Japan

EU importer: D&M Europe B.V.

Beemdstraat 11, 5653 MA Eindhoven, The Netherlands

[ENGLISH]	
5,150 - 5,350 MHz is restricted to indoor use only	
[DEUTSCH] 5.150 – 5.350 MHz darf nur in geschlossenen Räum	en verwendet werden
[FRANÇAIS] 5 150 - 5 350 MHz est limité à une utilisation en inté	rieur uniquement
[ITALIANO] La frequenza 5.150 – 5.350 MHz è limitata al solo us	so interno
[ESPAÑOL] 5.150 – 5.350 MHz está restringido al uso en interio	res solamente
[NEDERLANDS] 5.150 – 5.350 MHz is beperkt tot alleen binnenshuis	gebruik
[SVENSKA] 5 150 – 5 350 MHz är begränsat till inomhusbruk	
[РУССКИЙ] 5150 – 5350 МГц ограничивается использованием	и только в помещении
[POLSKI]	· · · · · · · · · · · · · · · · · · ·

5 150 - 5 350 MHz to częstotliwość ograniczona do użytkowania jedynie w pomieszczeniach

	awisawis		
		-	
UK	DE	FR	



CLASS 1 LASER PRODUCT (FOR DISC PLAYER)

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. THIS PRODUCT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL. "CLASS 1 LASER PRODUCT"

PRODUIT LASER CLASSE 1 (POUR LECTEUR DE DISQUE)

ATTENTION:

L'UTILISATION DE COMMANDES, DE RÉGLAGES OU DE PERFORMANCE DE PROCÉDURES AUTRES QUE CELLES SPÉCIFIÉES ICI PEUT ENTRAÎNER UNE EXPOSITION DANGEREUSE À DES RADIATIONS.

CE PRODUIT DOIT UNIQUEMENT ÊTRE RÉGLÉ OU RÉPARÉ PAR UN PERSONNEL DE SERVICE SUFFISAMMENT QUALIFIÉ.

PRODUCTO LÁSER DE CLASE 1 (PARA EL REPRODUCTOR DE DISCOS)

PRECAUCIÓN:

EL USO DE CONTROLES, AJUSTES, O LA REALIZACIÓN DE PROCEDIMIENTOS DISTINTOS A LOS AQUÍ ESPECIFICADOS, PUEDE PROVOCAR UNA EXPOSICIÓN PELIGROSA A LA RADIACIÓN. ESTE PRODUCTO NO DEBE SER AJUSTADO O REPARADO POR NINGUNA PERSONA EXCEPTO POR PERSONAL DE SERVICIO DEBIDAMENTE

CUALIFICADO.

PRODUTO LASER DE CLASSE 1 (PARA LEITOR DE DISCOS) CUIDADO:

O USO DE CONTROLOS, AJUSTES OU DESEMPENHO DE PROCEDIMENTOS QUE NÃO OS AQUI ESPECIFICADOS PODE RESULTAR EM EXPOSIÇÃO

A RADIAÇÃO PERIGOSA. ESTE PRODUITO NÃO DEVE SER A JUSTADO OU REDARADO DOR NINCUÉM EVCEDTO DOR DESSOAL TÉCNICO DEVIDAMENTE OU ALJEICADO

ESTE PRÓDUTO NÃO DEVE SER AJUSTADO OU REPARADO POR NINGUÉM EXCEPTO POR PESSOAL TÉCNICO DEVIDAMENTE QUALIFICADO.

WARNING:

- DO NOT INGEST 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 swallowed or placed inside any part of the body, seek immediate Medical attention.



AVERTISSEMENT:

N'INGÉREZ PAS LA PILE, RISQUE DE BRÛLURE CHIMIQUE

- La télécommande fournie avec ce produit contient une pile bouton. Une ingestion de la pile bouton risque de causer de sévères brûlures internes en à peine 2 heures et peut entraîner la mort.
- Conservez les piles neuves et usagées hors de portée des enfants. Si le compartiment à piles ne se ferme pas de manière sécurisée, arrêtez d'utiliser le produit et conservez-le hors de portée des enfants. Si vous pensez que des piles ont été ingérées ou placées dans n'importe quel orifice corporel, contactez immédiatement une assistance médicale.

ADVERTENCIA:

NO INGERIR LA BATERÍA, RIESGO DE QUEMADURAS POR PRODUCTOS QUÍMICOS

- El control remoto suministrado con este producto contiene una pila de botón. En caso de ingestión, la pila de botón puede causar quemaduras internas graves en solo 2 horas y puede ocasionar la muerte.
- Mantenga las pilas nuevas y usadas fuera del alcance de los niños. Si el compartimento de la pila no se cierra firmemente, deje de utilizar el producto y manténgalo fuera del alcance de los niños. Si cree que se han podido ingerir pilas, o las mismas se encuentran en alguna parte en el interior del cuerpo, solicite atención médica de inmediato.

AVISO:

- NÃO INGIRA A PILHA, PERIGO DE QUEIMADURA QUÍMICA
- O controlo remoto fornecido com este produto contém uma pilha de célula moeda/botão. Se a pilha de célula moeda/botão for engolida, pode causar queimaduras internas graves em apenas 2 horas e pode levar à morte.
- Mantenha as pilhas novas e usadas longe das crianças. Se o compartimento da pilha não fechar com firmeza, pare de utilizar o produto e mantenha-o afastado das crianças. Se pensa que as pilhas possam ter sido engolidas ou colocadas dentro de qualquer parte do corpo, procure ajuda médica imediata.

CAUTIONS ON USING BATTERIES

There is a possibility of smoke, fire, explosion from the battery, Please note as following. • Insert the specified batteries in the remote control unit.

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit. (The supplied batteries are only for verifying operation. Replace them with new batteries at an early date.)
- \bullet When inserting the batteries, be sure to do so in the proper direction, following the \oplus and Θ marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
- Do not use a new battery together with an old one.
- Do not use two different types of batteries.Do not attempt to charge dry batteries.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.
- The remote control unit may function improperly if rechargeable batteries are used.

PRÉCAUTIONS RELATIVES À l'UTILISATION DES PILES

Il existe un risque d'émission de fumée, d'incendie, d'explosion de la pile. Veuillez tenir compte des points suivants.

- Insérez les piles spécifiées dans la télécommande.
- Remplacez les piles si l'appareil ne fonctionne pas même lorsque la télécommande est actionnée à proximité. (Les piles fournies ne servent qu'aux opérations de vérification. Remplacez-les par des piles neuves sans attendre.)
- Lorsque vous insérez les piles, assurez-vous de les placer dans le bon sens, en respectant les marques ⊕ et ⊖ qui figurent dans le compartiment à piles.
- Pour éviter un endommagement de la télécommande ou une fuite du liquide des piles:
- Ne pas mélanger piles neuves et anciennes.
- Ne pas utiliser deux types de piles différents.
- Ne pas essayer de charger de piles sèches.
- Ne pas court-circuiter, démonter, chauffer ou brûler les piles.
- Ne placez pas la pile dans un endroit exposé à la lumière directe du soleil ou dans des endroits présentant des températures extrêmement élevées, par exemple près d'un radiateur.
- En cas de fuite du liquide de pile, essuyez soigneusement l'intérieur du compartiment avant d'insérer de nouvelles piles.
- Ôtez les piles de la télécommande si vous ne l'utilisez pas pendant longtemps.
 Veuillez vous débarrasser des piles usagées conformément aux lois locales
- relatives à la mise au rebut des piles.
 La télécommande risque de pe pas fonctionner correctement en cas d'utilisation
- La télécommande risque de ne pas fonctionner correctement en cas d'utilisation de piles rechargeables.

AVISOS SOBRE DE LAS PILAS

Existe posibilidad de generación de humo, incendio o explosión de la batería. Tenga en cuenta los siguientes aspectos.

- Introduzca las pilas especificadas en el mando a distancia.
- Ponga pilas nuevas si el equipo no funciona ni siguiera si el mando a distancia se pone muy cerca. (Las pilas que se entregan con la unidad solo sirven para verificar que funciona. Cámbielas por pilas nuevas lo antes posible.)
- Cuando inserte las baterías, asegúrese de hacerlo en la dirección correcta, según las marcas ⊕ y ⊖ en el compartimiento de baterías.
- Para evitar daños o derrames del fluido de la batería:
- No utilice una nueva batería junto con una ya utilizada.
- No utilice dos tipos diferentes de baterías.
- No intente cargar baterías secas.
- No corto circuíte, desensamble, caliente o queme las baterías.
- No coloque las pilas en un lugar expuesto a la luz directa del sol o donde la temperatura sea extremadamente alta, como cerca de una calefacción.
- Si hay fluido de batería, limpie cuidadosamente el fluido en el compartimiento de las baterías e inserte unas nuevas.
- Retire las baterías del mando a distancia si no lo va a utilizar por una largo periodo de tiempo.
- Las pilas usadas deben desecharse de acuerdo a las regulaciones locales concernientes al desecho de pilas.
- Puede que el mando a distancia no funcione correctamente si se utilizan pilas recargables.

CUIDADOS NA UTILIZAÇÃO PILHAS

Existe a possibilidade de aparecer fumo, chamas, ou que a bateria possa explodir. Por favor, preste atenção.

- Coloque as pilhas indicadas na unidade de controlo remoto.
- Substitua as pilhas por novas se o conjunto não funcionar mesmo accionando a unidade de controlo remoto próximo da unidade. (As pilhas fornecidas destinam-se apenas à verificação do correcto funcionamento da unidade.)
- Ao colocar as pilhas, certifique-se de que as coloca na direcção correcta, seguindo as indicações ⊕ e ⊖ existentes no compartimento das pilhas.
- Para evitar danos ou derrame de líquido das pilhas:
- Não utilize uma pilha nova em conjunto com uma usada.
- Não utilize dois tipos diferentes de pilhas.
- Não tente carregar pilhas secas.
 Não faça a ligação em curto-circuito, não desmonte, não aqueça nem queime
- as pilhas numa fogueira. • Não coloque as pilhas num local exposto à luz directa do sol nem em locais
- com temperaturas extremamente elevadas como, por exemplo, próximo de um aquecedor.
- Em caso de derrame de líquido das pilhas, limpe cuidadosamente o líquido do interior do compartimento das pilhas e coloque pilhas novas.
- Retire as pilhas da unidade de controlo remoto caso não a vá utilizar durante longos períodos de tempo.
- As pilhas usadas devem ser descartadas em conformidade com os regulamentos locais relativos à eliminação de pilhas/baterias.
- A unidade de controlo remoto poderá não funcionar correctamente se forem utilizadas pilhas recarregáveis.

For lithium battery:

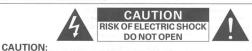
For California customers only:

This product contains a battery that contains perchlorate material. Perchlorate Material-special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

www.marantz.com

Safety Instructions (Read these safety instructions before operating the unit.)

□ SAFETY PRECAUTIONS



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions
- Do not use this apparatus near water Clean only with dry cloth.
- Do not block any ventilation openings
- Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including 8. amplifiers) that produce heat.
- ampliners) that produce near. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 9
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the 10. point where they exit from the apparatus. Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

□ FCC INFORMATION (For US customers)

1. COMPLIANCE INFORMATION

This product complies with Part 15 of the FCC Rules. 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.

- Marantz America, LLC. (a D&M Holdings Company) 100 Corporate Drive, Mahwah, NJ, 07430, U.S.A.
- Tel. 201-762-6500

2. 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 Marantz may void your authority, granted by the FCC, to use the product. 3 NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver

Connect the product into an outlet on a circuit different from that to which the receiver is connected.
 Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

4. IMPORTANT (For Network model)

When connecting this product to network hub or router, use only a shielded STP or ScTP LAN cable which is available at retailer.

Follow all installation instructions. Failure to follow instructions could void your authority, granted by the FCC, to use the product.

5. CAUTION (For Bluetooth/Wi-Fi model) •To comply with FCC RF exposure compliance requirement, 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

□ IC INFORMATION (For Canadian customers)

CAN ICES-3(B)/NMB-3(B)

CAUTION

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet. The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale. La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared

El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso

ATENÇÃO:

Para desligar este produto completamente da tomada de alimentação, retire a ficha da tomada de alimentação. A ficha da tomada de alimentação é utilizada para cortar completamente a alimentação de corrente à unidade e tem de estar facilmente acessível ao utilizador

CAUTIONS ON INSTALLATION For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.

 Amplifier: 0.3 m or more . Other units: 0.1 m or more

PRÉCAUTIONS D'INSTALLATION

our permettre la dissipation de chaleur requise, n'installez pas cette unité dans un espace confiné tel qu'une bibliothèque ou un endroit similaire. • Amplificateur: 0,3 m ou plus

Autres appareils: 0.1 m ou plus **EMPLAZAMIENTO DE LA INSTALACIÓN**

Para la dispersión del calor adecuadamente, no instale este equipo en un lugar confinado tal como una librería o unidad similar.

- Amplificador: 0.3 m o más
- Otras unidades: 0,1 m o más

PRECAUÇÕES DE INSTALAÇÃO

Para uma correcta dispersão do calor, não instale esta unidade num espaço confinado, como uma estante de livros ou uma estrutura semelhante.

- Amplificador: 0.3 m ou mais
- Outros unidades: 0.1 m ou mais

INOTES ON USE / OBSERVATIONS RELATIVES A L'UTILISATION / NOTAS SOBRE EL USO /NOTAS SOBRE A UTILIZAÇÃO

WARNINGS	AVERTISSEMENTS	ADVERTENCIAS	AVISOS
 Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. Handle the power cord carefully. Hold the plug when unplugging the cord. Keep the unit free from moisture, water, and dust. Unplug the power cord when not using the unit for long periods of time. Do not let insecticides, benzene, and thinner come in contact with the unit. Never disassemble or modify the unit in any way. Ventilation should not be impeded by covering the ventilation holes. Naked flame sources such as lighted candles should not be placed on the unit. Observe and follow local regulations regarding battery disposal. Do not place objects filled with liquids, such as vases, on the unit. Naked flame sources such as lighted candles should not be placed on the unit. Do not place objects filled with liquids, such as vases, on the unit. Do not hadle the mains cord with wet hands. When the switch is in the OFF (STANDBY) position, the equipment is not completely swithed off from MAINS. The equipment shall be installed near the power supply so that the power supply is easily accessible. Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater. Do not bend forcedly the plug on the equipment for the connection between the connector and micro USB/USB cable. 	 Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. Protéger l'appareil contre l'humidité, l'eau et la poussière. Débrancher le cordon d'alimentation lorsque l'appareil n'est pas uitilisé pendant de longues périodes. Ne pas laisser des objets étrangers dans l'appareil. Ne pas laisser des objets étrangers dans l'appareil d'une manière ou d'une autre. Ne pas laisser des objets étrangers dans l'appareil d'une manière ou d'une dure. Ne pas recouvrir les orifices de ventilation avec des objets tels que des journaux, nappes ou rideaux. Cela entraverit la ventilation. Velliez à respecter les lois en vigueur lorsque vous jetez les piles usagées. L'appareil ne doit pas être exposé à l'eau ou à l'humidité. Ne pas manipuler le cordon d'alimentation avec les mains mouilées. Velliez à respect de la source d'alimentation avec les mains mouilés. L'appareil ne doit pas être exposé à l'eau ou à l'humidité. Ne pas manipuler le cordon d'alimentation avec les mains mouilés. Lorsque l'interrupteur est sur la position OFF (ISTANDBY), l'appareil n'est pas complètement déconnect du SECTEUR (MAINS). L'appareil sera installé près de la source d'alimentation, de sorte que cette dernière soit facilement accessible. Ne placez pas la pile dans une ndroit exposé à la lumière directe du soleil ou dans des endroits présentant des températures extrêmement élevées, par exemple près d'un radiateur. Ne placez pas la pile dans une ndroit exposé à la lumière d'un calateur. Ne placez pas la pile dans une ndroit exposé à la lumière 	 Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. Mantejag el equipo libre de humedad, agua y polvo. Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. No obstruya los orificios de ventilación. No obstruya los orificios de ventilación. No obstruya los orificios de ventilación. No deje objetos extraños dentro del equipo. No permite el contacto de insecticidas, gasolina y diluyentes con el equipo. Nuo ca desarme o modifique el equipo de ninguna manera. La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles o cortinas. No deberán colocarse sobre el aparato fuentes inflamables sin protección, como velas encendidas. A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. No exponer el aparato al goteo o salpicaduras cuando se utilice. No colocar sobre el aparato objetos llenos de líquido, como jarros. Cuando el interruptor está en la posición OFF (STANDEY), el equipo no está completamente desconectado de la alimentación MAINS. El equipo se instalará cerca de la fuente de alimentación de manera que resulte fácil acceder a ella. No coloque las plase nu nugar expuesto a la luz directa del sol o donde la temperatura sea extremadamente ata, como cerca de una calefacción. No doble a la fuerza la clavija del equipo para la conexión entre el conector y el cable micro USB/USB. 	 Evite temperaturas altas. Assegure uma suficiente dispersão do calor quando a unidade for instalada numa prateleira. Manuseie o cabo de alimentação com cuidado. Puxe pela ficha quando desligar o cabo de alimentação. Mantenha a unidade afastada da humidade, da água e do pó. Desligue o cabo de alimentação quando não estiver a utilizar a unidade por longos periodos de tempo. Não deixe objectos estranhos dentro da unidade. Não deixe objectos com a unidade. Nunca desmonte ou modifique de alguma forma a unidade. A ventilação não deve ser obstruida, tapando as aberturas de ventilação com objectos, como jornais, toalhas ou cortinas. Não devem ser colocadas junto à unidade fontes de chama aberta, com velas acesas. Respeite as regulamentações locais relativas à eliminação de pilhas. Não exponha a unidade a gotejamento ou salpicos de líquidos. Não coloque objectos com líquidos, como jarras, em cima da unidade. Não manuseie o cabo de alimentação com as mãos molhadas. Quando o interruptor se encontra na posição OFF (STANDBY), o equipamento não está completamente desligado da REDE ELECTRICA (MAINS). O equipamento deve ser instalado junto da fonte de alimentação para que a fonte de alimentação esteja facilmente acessivel. Não dobre noreclas com temperaturas extremamente elevadas, tal como perto de um aqueedor. Não dobre forcedly o plugue do equipamento para a conexão entre o conector e cabo USB / micro USB.

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Limited Warranty

Marantz America, Inc. ("Marantz") warrants the following Marantz Products for the periods indicated:

1. The following Marantz Audio/Video components, have a 3 year warranty for both Parts & Labor, from the original purchase date:

Amplifiers, Pre Amplifiers, Pre Amplifier-Processor-Tuners, Integrated Amplifiers, Tuners, Receivers, Blu-ray DVD SA-CD/CD Players/Changers, Learning Remote Control Devices, iPod Docks & DLP front Projectors.

2. **DLP lamps** have a 90 day warranty for parts and labor from the original purchase date.

What is covered and what is not covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

- 1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
 - a) Accident, acts of nature, misuse, abuse, neglect or unauthorized product modification.
 - b) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
 - c) Repair or attempted repair by anyone not authorized by Marantz to repair the product.
 - d) Any shipment of the product (claims must be presented to the carrier).
 - e) Any cause other than a product defect.
- 2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
- 3. Any product on which the serial number has been defaced, modified or removed.
- 4. Batteries.
- 5. Accessories, including but not limited to, batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.
- 6. Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.

Who may enforce the warranty

This warranty extends only to the original purchaser, not subsequent owners.

What we will pay for

We will pay for all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

How you can get service

- 1. If your unit needs service, contact Marantz customer service by calling **201-762-6666**. We will advise you of the name and location of one or more authorized Marantz service stations from which service can be obtained. Please do not return your unit to the factory without prior authorization.
- 2. You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within the United States, its possessions or territories.
- Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

Limitation of implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty and are limited in scope to the terms contained in this warranty. All other warranties are hereby disclaimed.

Exclusion of damages

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

How state law relates to the warranty

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Marantz America, LLC.

100 Corporate Drive, Mahwah, NJ, 07430-2041 Phone. 201-762-6666

MARANTZ CANADA LIMITED WARRANTY

Marantz Canada ("Marantz") warrants the following Marantz products for the periods indicated:

3-year warranty for both Parts & Labour, from the original purchase date :

Amplifiers; Pre Amplifiers; Pre Amplifier-Processor-Tuners; Integrated Amplifiers; AV Pre Tuner; Tuners; Receivers; AV Surround Receiver; Blu-ray DVD Super Audio CD/CD Players/ Changers; CD Receiver; Turntable; Network Audio Player; D/A Converter; Learning Remote Control Devices; iPod Docks & DLP front Projectors.

90 day warranty for parts and labour from the original purchase date :

DLP lamps

What is Covered and What is Not Covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

- 1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
 - a) Accident; acts of nature; misuse; abuse; neglect; unauthorized product modification.
 - b) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
 - c) Repair or attempted repair by anyone not authorized by Marantz to repair the product.
 - d) Any shipment of the product (claims must be presented to the carrier)
 - e) Any cause other than a product defect
- 2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
- 3. Any product on which the serial number has been defaced, modified or removed.
- 4. Accessories, including but not limited to, batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.
- 5. Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.

Who May Enforce the Warranty

Only the original purchaser may enforce this warranty.

What We Will Pay For

We will pay for all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

How You Can Get Service

- If your unit needs service, please first contact your dealer to see what support services they do offer. You can also contact one of our Authorized Marantz Service Centers as per our website <u>http://ca.marantz.com/162.asp</u> or contact us directly as below. Please do not return your unit to the factory without prior authorization.
- 2. You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within Canada.
- 3. Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

Limitation of Implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.

Exclusion of damages

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

Some provinces do not allow limitations on how long an implied warranty lasts and/or does not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, but you may also have other rights, which vary from province to province.

MARANTZ Canada

Marantz Canada, LLC. a division of D&M Canada LLC. 10462 Islington Ave. Unit 8B Kleinburg, Ontario L0J 1C0 Canada

Marantz Customer Service hours: 10:00 AM to 10:00 PM EST, M-F 12:00 PM to 8:00 PM EST, SAT Tel: 800-654-6633

www.marantz.com

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How to use Connect

You'll need Spotify Premium to use Connect, see details overleaf.

 Add your new device to the same wifi network as your phone, tablet or PC (see product user instructions for details).

- 2 Open the Spotify app on your phone, tablet or PC, and play any song.
- 3 If you're using the app on a phone tap the song image in the bottom left of the screen. For tablet and PC move to step 4.
- 4 Tap the Connect icon
- 5 Pick your device from the list. If you can't see it, just check it's connected to the same wifi network as your phone, tablet or PC.

All done! Happy listening.



Say hello to Spotify Premium

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