

Connections

Playback



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Front panel

Remote control unit

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License

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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	Owner's Manual (CD-ROM)	Safety Instructions	Notes on radio	Power cord
		- E-Ster	State Mar	CL CL P
Remote control unit (RC004NA)	R03/AAA batteries	Audio cable	Remote connector cable	External antennas for Bluetooth/wireless connectivity

Remote control unit





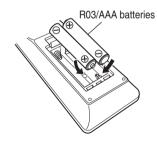
About the remote control

Inserting the batteries

1 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.







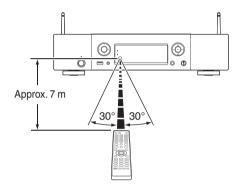


NOTE

- 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.
- 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.



Marantz "Hi-Fi Remote" app

Marantz "Hi-Fi Remote" app is a unique application developed for the iPad, iPhone, iPod touch and Android smartphone.

Tips

This application enables you to control Marantz network devices that are connected to your home network.

Install the App onto your iPad, iPhone, iPod touch or Android smartphone to control this device.

- Bidirectional communication is performed.
- The Marantz "Hi-Fi Remote" app can be downloaded for free from the Apple App Store or Google Play store.

Front panel







Main features

High quality sound

Using Marantz original HDAM[®] SA2 circuit

The unit uses an HDAM[®] SA2 circuit, whose quality has been proved in Super Audio CD players and high-end amplifiers, as a high-speed buffer amplifier.

You can enjoy the high speed and high-quality sound like that produced by high-end equipment.

• Incorporates a Cirrus Logic advanced D/A converter, CS4398

A D/A converter is an essential element for the audio quality of a CD player. The CS4398 Cirrus Logic D/A Converter, which has a reputation for high precision and has been adopted for other Marantz Super Audio CD players, is adopted for this unit.

· Equipped with jitter-reducing circuit

This unit is equipped with a jitter reducing circuit to achieve even higher definition playback. This enables you to enjoy outstanding S/N with playback that gives you an even more live-sounding listening experience.

Double-layered chassis

High grade headphone circuit

The high-grade headphone circuit incorporates a high-speed buffer amplifier to enable headphone listening of high quality sound reproduction, late at night or in other such situations.

Front panel





High performance

Playback of DSD and FLAC files via USB and networks

This unit supports the playback of high resolution audio formats such as DSD and FLAC 192 kHz files. It provides high quality playback of high resolution files.

- Support for High Quality Audio playback
 WAV/FLAC/ALAC (Apple Lossless Audio Codec)/AIFF/DSD
- Supports Internet Radio and music streaming Supports AirPlay[®] (127 p. 56)
- Plays USB memory devices (MP3/WMA/AAC/WAV/FLAC/ALAC/ AIFF/DSD) and iPod[®]/iPhone[®]

- Wi-Fi network capability with diversity antenna, and is certified under WMM (Wi-Fi Multi Media) for efficient wireless connectivity
- Easy wireless connection is possible by pressing the Wi-Fi CONNECT button (WPS and Wi-Fi Sharing) See the separate "Quick Start Guide".
- Wireless connection with Bluetooth devices can be carried out easily

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

- DLNA ver. 1.5 support for audio networks
- Support for Gapless playback

Playback with no gap between music files. (for WAV/FLAC/ALAC/ AIFF/DSD only)

• Smart recharge control starts recharging the iPod[®] when it is connected, and after recharging optimizes power consumption in accordance with the status of this unit (I <u>p. 23</u>)

Front panel

Remote control







Tips

- Compatible with Marantz "Hi-Fi Remote" app for performing basic operations of the unit with an iPad[®], iPhone[®] or Android smartphone
- OLED (Organic Light Emitting Diode) display that can display 3
 lines
- Equipped with auto standby mode function that reduces power consumption





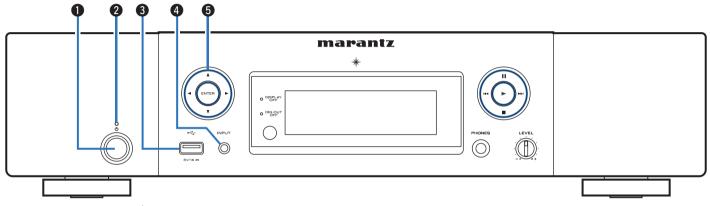




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Part names and functions

Front panel



● Power operation button (也)

This turns the power on/off (standby). (p. 32)

Standby indicator

The standby indicator changes as shown below according to the status of the unit.

- Power on : Off
- Normal standby : Red
- When "Network Control" is set to "On" : Orange
- iPod charge standby : Orange

USB port

Used to connect iPod or USB memory devices. (12 p. 23)

Input source select button (INPUT)

These select the input source. (127 p. 33)

() Cursor buttons ($\Delta \nabla \triangleleft \triangleright$)

These select items.

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Remote control unit





EXAMPLE 1 EXAMPLE 1 EXA	 NOTE To prevent hearing loss, do not raise the volume level excessively when using headphones. (7 Fast-reverse/Reverse-skip button (I◄◄) Returns to the start of the currently playing track. Press and hold to fast-reverse the track. (((T p. 41))) (8 Pause button (III) Pauses playback. ((T p. 41)) (9 Play button (►) Playback starts. ((T p. 41)) (18 Fast-forward/Forward-skip button (►►I) Plays the next track. Press and hold to fast-forward the track. ((T p. 41)) (19 Fast-forward/Forward-skip button (►►I) Plays the next track. Press and hold to fast-forward the track. ((T p. 41)) (19 Stop button (III) Stops playback. ((T p. 41)) (19 Headphone volume control knob (LEVEL) Adjusts the headphone volume.
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Remote control unit

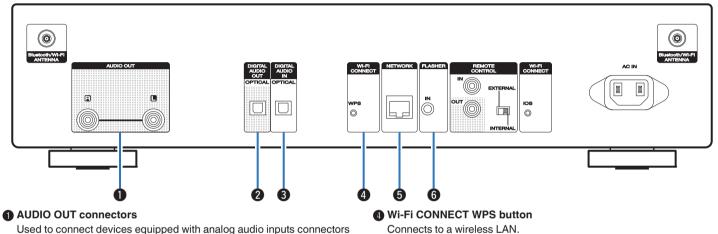








Rear panel



or an external amplifier. (\square p. 20)

DIGITAL AUDIO OUT connector

Used to connect an AV receiver or D/A converter that has a digital input connectors. ($\underline{\mathbb{C}p.21}$)

OIGITAL AUDIO IN connector

Used to connect a computer or devices equipped with digital audio output connectors. ((2) p. 22)

Connects to a wireless LAN. (See the separate "Quick Start Guide".)

5 NETWORK connector

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Used to connect to a LAN cable when connecting to a wired LAN network. ($[\underline{\mathcal{T}}]_{p.25}$)

6 FLASHER IN jack

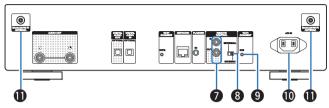
Used to connect a control box, etc. "FLASHER IN jack" (2 p. 28)



Remote control unit







REMOTE CONTROL IN/OUT connectors

Used to connect to a Marantz amplifier that is compatible with the remote control function. ($\bigcirc p. 29$)

BEXTERNAL/INTERNAL switch

Turn this switch to "EXTERNAL" to operate the unit by pointing the remote control at the amplifier connected to this unit using the remote control connection. ($r_{T} p. 29$)

Wi-Fi CONNECT iOS button

Connects to iOS. (See the separate "Quick Start Guide".)

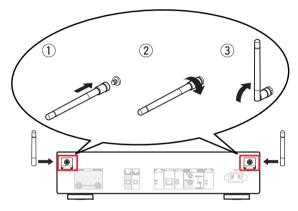
AC inlet (AC IN)

Used to connect the power cord. (p. 30)

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. ($p_{\underline{p}} p_{\underline{2}} 26$)

- 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.



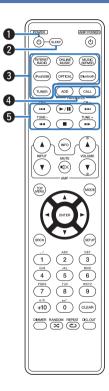
Front panel

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Remote control unit



Operating this unit

POWER button (())

This turns the power on/off (standby). (1 p. 32)

SLEEP button

This sets the sleep timer. (12 p. 34)

Input source select buttons

These select the input source. (12 p. 33)

FAVORITES ADD / CALL buttons

- To add radio stations or files to the favorite list, press ADD button.
- To call up a radio station or file registered in the favorite list, press CALL button. ((定 p. 45)

6 System buttons

These perform playback related operations. (2 p. 39)

- Skip buttons (I◄◄, ►►I)
- Play/pause button (►/III)
- Fast-reverse / Fast-forward buttons (◄◄, ►►)
- Stop button (■)

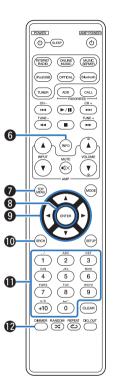
Front panel

Remote control unit







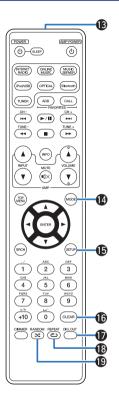


b	Information button (INFO)
	This switches display items such as the album name and title name in the playback screen. ((27 p. 39)
1	TOP MENU button
	To back to the top of the menu.
8	ENTER button
Ī	This determines the selection. (127 p. 35)
9	Cursor buttons (Δ∇ <i td="" ▷)<=""></i>
	These select items. (@p. 35)
() Search button (SRCH)
	This displays the search menu. (12 p. 35)
1	Number buttons (0 – 9, +10)
Ī	These enter letters or numbers into the unit. (12 <u>p. 44</u>)
12	DIMMER button
	Adjust the display brightness of this unit. (@ p. 34)

Front panel







B	Remote control signal transmitter
-	This transmits signals from the remote control unit. ($ ($
1	MODE button
-	This switches the playback mode. (127 <u>p. 46</u>)
B :	SETUP button
-	The setting menu is displayed on the display. (🖙 <u>p. 35</u>)
6	CLEAR button
	This cancels the settings. (m <u>p. 44</u>)
Ð	Digital audio output switch button (DIG. OUT)
	This switches the digital audio output on/off. (@ <u>p. 34)</u>
B I	REPEAT button (ぬ)
5	Switches to the repeat playback. (13 <u>p. 39</u>)
()	RANDOM button (ズ)
	Switches the random playback. (127 <u>p. 39</u>)

Front panel

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POWER)

Pod/USB

TUNER

сн.

TUNE -

TOP

1)

4

PORS 7 +10

DIMMER RANDOM REPEAT DIG.OUT

AMP POWER (b)-SLEEP (0) O (INTERNET) (ONLINE RADIO (MUSIC) MUSIC OPTICAL Buetooth (ADD) CALL CH + (►/II) TUNE + 2 4 MODE 3 2 5 6 тич 8 9 9 0 CLEAR

Amplifier operations

● AMP POWER button (の)

This turns the power of the amp connected to this unit on or off.

This switches the input source of the amp connected to this unit. (🖅 p. 33)

OLUME buttons (▲▼)

This adjusts the volume of the amp connected to this unit.

MUTE button (◀×)

This mutes the sound of the amp connected to this unit.

Front panel







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NOTE

- Do not plug in the power cord until all connections have been completed.
- Do not bundle power cords with connection cables. Doing so can result in humming or noise.

Cables used for connections

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

Audio cable (supplied)		
Remote connector cable (supplied)	(i) d	
Optical cable (Sold separately)		
LAN cable (Sold separately)		
Monaural mini-plug cable (Sold separately)		

Front panel

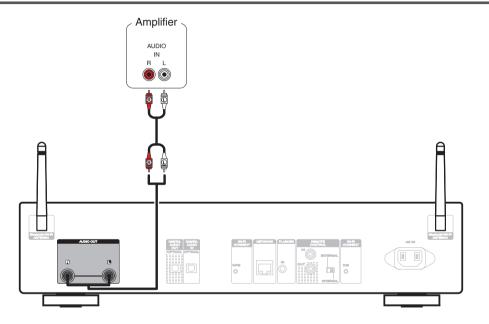
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Connecting an amplifier





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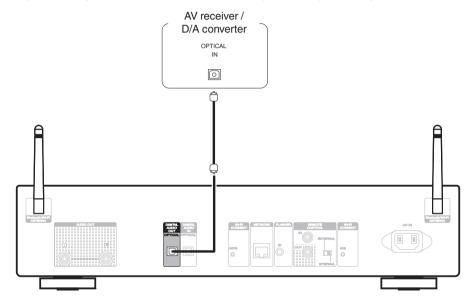




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Connecting to a device with digital audio input connectors

Use this connection to output digital audio signals from this unit, and convert the signals for playback using the D/A converter of a connected device.



Ó

Use the Digital Out button to set the digital audio output on or off. ($\underline{rp.34}$)

Signals with a sampling frequency of 32 kHz and DSD signals cannot be output from the Digital Audio Out connector of this unit.



Rear panel

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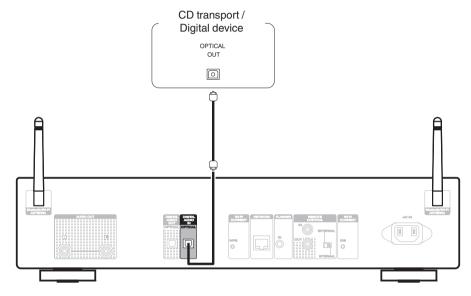




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Connecting to a device with digital audio output connectors

Use this connection to input digital audio signals to this unit, and convert the signals for playback using the D/A converter of this unit. (127 p. 68)



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NOTE

Front panel

• Linear PCM signals with a sampling frequency of 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, or 192 kHz can be input into this device.

Remote control

unit

• Do not input non-PCM signals, such as DTS and AAC. This causes noise and could damage the speakers.

Rear panel



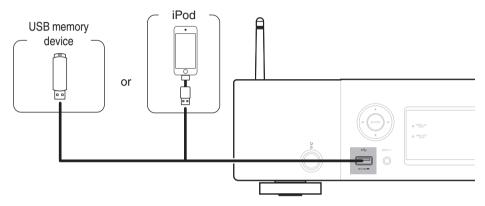


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Connecting an iPod or USB memory device to the USB port

You can enjoy music stored on an iPod/iPhone or USB memory device.

- To connect an iPod/iPhone to this unit, use the USB adapter cable that was supplied with the iPod/iPhone.
- For operating instructions, see "Playing an iPod" (12 p. 46) or "Playing a USB memory device" (12 p. 50).



<u>(</u>

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.

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NOTE

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

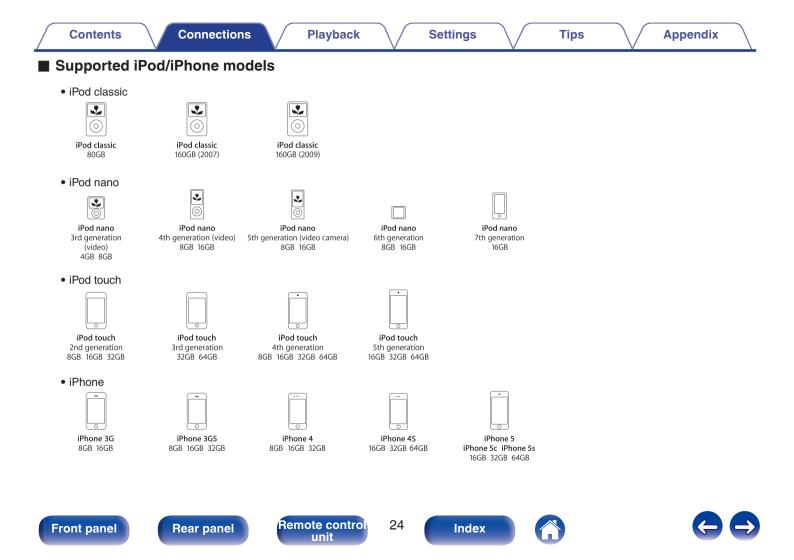


Remote control









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.

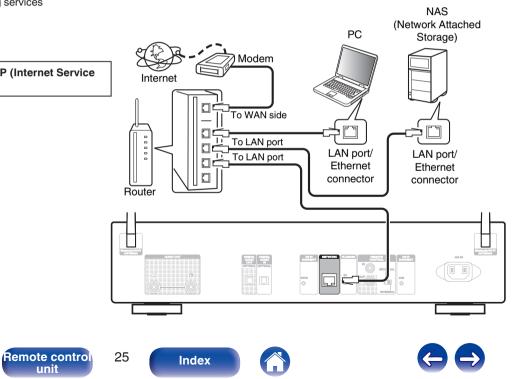
- Playback of network audio such as Internet Radio and from your music server(s)
- · Playback of music content from online streaming services
- Using the Apple AirPlay function
- · Operation on this unit via the network
- Firmware Update

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

Rear panel

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.



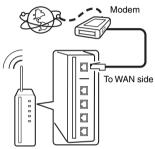
Front panel

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 "Settings" (p. 79) on how to connect to a wireless LAN router.

Internet



Router with access point



- With this unit, it is possible to use the DHCP and Auto IP functions to make the network settings automatically.
- With this unit, it is possible to use the DHCP and Auto IP functions to make the network settings automatically. When using this unit connected to a network with no DHCP function, make the settings for the IP address, etc., at "Network".
 (127 p. 78)
- 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.
- Use only a shielded STP or ScTP LAN cable which is easily 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 a WPS (Wi-Fi Protected Setup) compatible router, you can connect easily to Wi-Fi by pressing the Wi-Fi CONNECT WPS button on this unit. (See the separate "Quick Start Guide".)



Remote control







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 you have a contract for a type of line set by PPPoE.
- Do not connect a NETWORK connector directly to the LAN port/ Ethernet connector on your computer.
- Do not carry this unit by the antenna.





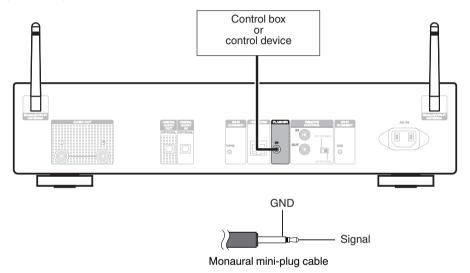






FLASHER IN jack

This unit can be controlled by connecting a control box or other control device to this unit.



To use the FLASHER IN jack, set the EXTERNAL/INTERNAL switch to "INTERNAL".



Remote control unit









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REMOTE CONTROL jack

If this unit is connected to a Marantz amp, the amp can be controlled via this unit using the Marantz "Hi-Fi Remote" app. Also, remote control signals received by the amp can be used to control this unit. Next, configure the "Connections" and "Settings".

Connection

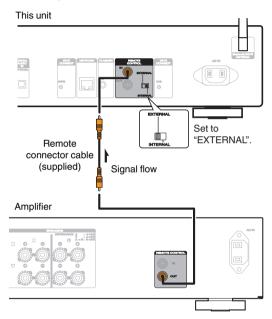
Use the supplied remote connector cable to connect the REMOTE CONTROL IN connector of this unit to REMOTE CONTROL OUT connector of the amplifier.

Setting

Turn the EXTERNAL/INTERNAL switch on the unit to "EXTERNAL".

- This setting will disable remote sensor reception of this unit.
- To operate the unit, point the remote control at the remote sensor of the amplifier.

To use this unit by itself without connecting an amplifier, turn the switch to "INTERNAL".



Front panel

Remote control

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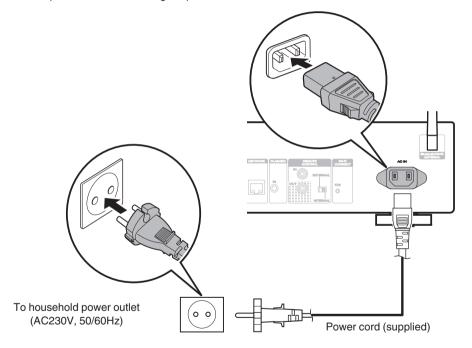






Connecting the power cord

Wait until all connections have been completed before connecting the power cord.





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Front panel

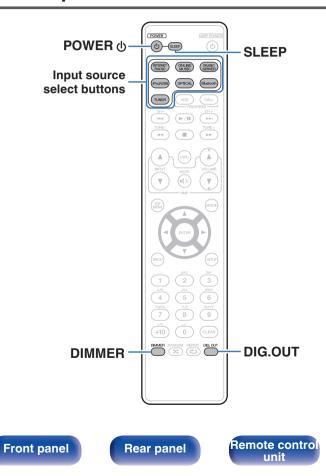
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Basic operation

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Connections

Turning the power on

Press POWER () to turn on power to the unit.

Tips

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The power indicator turns off.

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Settings

Playback

- You can also switch the power to standby by pressing ${\bf \textcircled{O}}$ on the main unit.
- When you turn on the power of this unit for the first time after purchasing it, the "Quick Setup" menu starts up. For details on "Quick Setup" operations, see the separate "Quick Start Guide".
- If you cancelled "Quick Setup" menu or changed the network environment, perform "Setup" – "Quick Setup".



Switching the power to standby

Press POWER 🕁.

The unit switches to standby mode.

 Standby indicator Power on : Off Normal standby : Red When "Network Control" is set to "On" : Orange iPod charge standby : Orange

NOTE

Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when going on vacation, unplug the power cord from the power outlet.

Completely turning off the power

Unplug the power cord from the wall outlet.

Selecting the input source

- Selecting the input source using the remote control
- Press the input source select button to be played back.
 - The desired input source can be selected directly.

Selecting the input source using the main unit

Press INPUT.

The input source is switched each time the button is pressed.

Remote control unit







Switching the display's brightness

Switching the display off reduces a source of noise that affects sound quality, enabling higher sound quality playback.

Press DIMMER.

• The brightness of the display switches each time the button is pressed (4 levels).

- When the display is turned off, the "DISPLAY OFF" indicator lights up on the display.
- If you operate the buttons when the display brightness is set to "Off", the display temporarily lights at 100% brightness level.

Stopping digital outputs

Stopping digital audio output reduces a source of noise that affects sound quality, enabling higher sound quality playback.

Press DIG. OUT.

The digital audio output is switched on and off each time the button is pressed.

When digital output is turned off, the "DIG. OUT OFF" indicator lights up on the display.

Sleep timer function

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

Tips

Press SLEEP during playback and select the setting time.

- The ♣ indicator on the display lights.
- You can set the sleep timer in the range from 10 to 90 minutes in steps of 10 minutes.

To cancel the sleep timer

Press SLEEP to set "Sleep ►Off".

The ♣ indicator on the display turns off.

- The sleep timer setting is canceled when the unit switches to standby mode.
- To check the time remaining until the sleep timer is activated, press SLEEP.



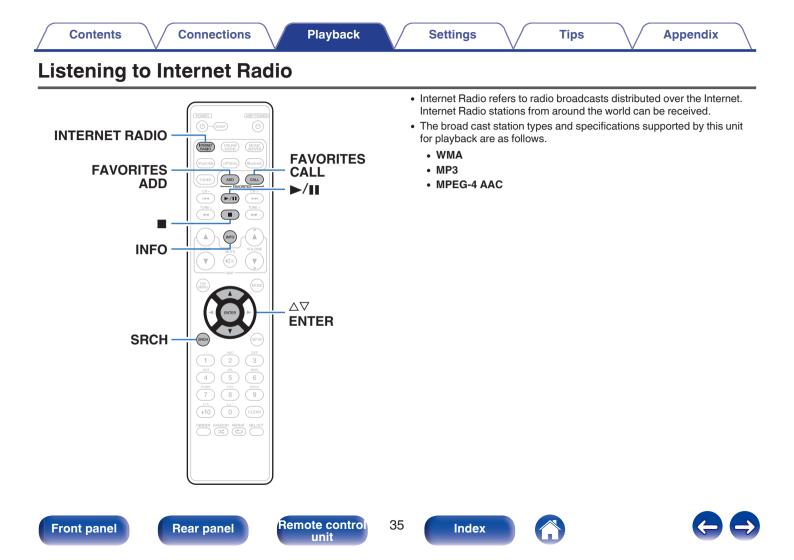
Remote control unit

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Listening to Internet Radio

This unit memorizes the last played Internet Radio station. If you press INTERNET RADIO to switch to the Internet Radio function from another input source, the last Internet Radio station you listened to is played.

Prepare for playback.

• Check the network environment, then turn on this unit's power. ($(\underline{r_{\mathcal{P}}}, \underline{p}, \underline{25})$

2 Press INTERNET RADIO.

Tips

***** (Country name) :	Displays typical Internet Radio stations your country.				
Search Stations :	Displays all Internet Radio stations that this unit can tune in to.				
Search Podcasts :	Displays Internet Radio stations in the podcasts that this unit can tune in to.				
Recommended Stations :	Displays recommended Internet Radio stations.				
radiomarantz.com :	Displays Internet Radio stations added to favorites in vTuner. For instructions on how to add to favorites in vTuner, see "Using vTuner to add Internet Radio stations to favorites" (127 p. 38).				
Recently Played :	Displays recently played Internet Radio stations. Up to 20 stations can be stored in "Recently Played".				
Search by Keyword :	Displays Internet Radio stations searched by keyword. For character input, see "Inputting characters" ((pp. <u>72</u>).				

Front panel

Remote control unit

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Use $\Delta \nabla$ to select the station, then press ENTER.

Playback starts once buffering reaches "100%".

Operation buttons	Function
►/II	Playback / Stop
	Stop
FAVORITES CALL	Call from the Favorite list
FAVORITES ADD	Add to the Favorite list
SRCH	 Character search If the list is not in alphabetical order, you may not be able to perform a character search.
	Select the item
ENTER	Enter the selected item
INFO	Switching the file type/ bit rate and radio station name etc.

Δ

Any characters that cannot be displayed are replaced with "." (period).

NOTE

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



Remote control unit







Using vTuner to add Internet Radio stations to favorites

There are many Internet Radio stations in the world, and this unit can tune into these stations. But finding the radio station you want to hear may be difficult, because there are too many stations. If this is the case, then please use vTuner, an Internet Radio station search website specifically designed for this unit. You can use your PC to search Internet Radio stations and add them as your favorites. This unit can play radio stations added to vTuner.

Check the MAC address of this unit.

- The MAC address is necessary when you create an account for $\nu T \text{uner.}$
- 2 Use your PC to access the vTuner website (<u>http://</u><u>www.radiomarantz.com</u>).
- 3 Enter the MAC address of this unit, then click "Go".
- 4 Enter your E-mail address and a password of your choice.
- **5** Select the search criteria (genre, region, language, etc.) of your choice.
 - You can also enter a keyword to search for a station you want to hear.

- 6 Select the radio station of your choice from the list, and then click the Add to Favorites icon.
 - Enter the name of the favorite group, then click "Go".

A new favorite group that includes the selected radio station is created.

 Internet Radio stations added to favorites in vTuner can be played from "radiomarantz.com" (12 p. 36) with this unit.

Files that can be played back

See "Playing back Internet Radio" (
<u>p. 101</u>).



Remote control unit

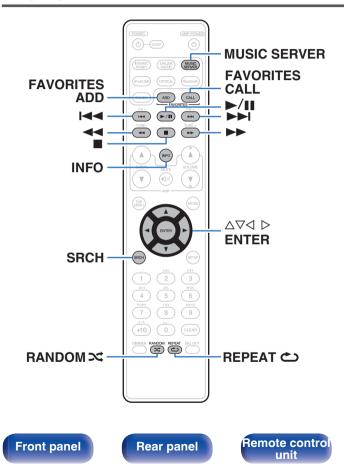






Playba<u>ck</u>

Playing back files stored on a PC and NAS



- This unit can play back music files and playlists (m3u, wpl) stored on a PC and on Network Attached Storage (NAS) that supports DLNA.
- The network audio playback function of this unit connects to the server using technologies shown below.
 - Windows Media Player Network Sharing Service
- This unit can play back the following files.
 - WMA
 - MP3
 - WAV
 - MPEG-4 AAC
 - FLAC
 - ALAC
 - AIFF

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• DSD (2-channel)



Applying media sharing settings

Here, we apply the settings to share music files stored on a PC and NAS on the network. If you are using a music server, be sure to apply this setting first.

When using Windows Media Player 12 (Windows 7 / Windows 8)

- Start up Windows Media Player 12 on the PC.
- **2** Select "More streaming options..." in the "Stream".
- **3** Select "Allowed" in the drop-down list for "Marantz NA6005".
- 4 Select "Allowed" in the drop-down list for "Media programs on this PC and remote connections...".
- **5** Follow the screen instructions to end the setting.

When using Windows Media Player 11

- Start up Windows Media Player 11 on the PC.
- **2** Select "Media Sharing" in the "Library".
- **3** Click the "Share my media" check box, select "Marantz NA6005", and then click "Allow".
- **4** As you did in step 3, select the icon of the device (other PCs and mobile devices) you want to use as a media controller, and then click "Allow".
- 5 Click "OK" to finish.

Sharing media stored in NAS

Change settings on the NAS to allow this unit and other devices (PCs and mobile devices) used as media controllers to access the NAS. For details, see the owner's manual that came with the NAS.

Front panel

Remote control

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Settings

Playing back files stored on a PC and NAS

Use this procedure to play music files or playlists.

Prepare for playback.

- ① Check the network environment, then turn on this unit's power. "Connecting to a home network (LAN)" (12) p. 25)
- (2) Prepare the computer (PC Computer's operating instructions).

2 Press MUSIC SERVER.

3 Use $\Delta \nabla$ to select the server including the file to be played, then press ENTER.

4 Use $\Delta \nabla$ to select the file, then press ENTER.

Playback starts once buffering reaches "100%".

Operation buttons	Function		
►/II	Playback / Pause		
	Stop		
	Skip to previous track / Skip to next track		
**	(Press and hold) Fast-reverse / Fast-forward		
FAVORITES CALL	Call from the Favorite list		
FAVORITES ADD	Add to the Favorite list		
SRCH	 Character search If the list is not in alphabetical order, you may not be able to perform a character search. 		
RANDOM ズ	Random playback		
REPEAT 👛	 Repeat playback Switching between Single-track repeat and All-track repeat. 		
	Select the item		
ENTER	Enter the selected item		
INFO	Switching the file type/bit rate, artist name, and album title.		

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Remote control unit 41





Contents

Files that can be played back

See "Playing back files stored on a PC and NAS" (p. 102).

WMA Lossless files can be played when using a server supporting transcoding, such as Windows Media Player Ver. 11 or later.

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, play back music files with your PC or NAS connected through 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.

Performing repeat playback

Press REPEAT 👛.

Repeat playback starts.

• The repeat mode is switched each time the button is pressed.

(Single-track repeat):	Only 1 track plays repeatedly.
(All-track repeat):	All tracks within the current playback folder are repeated.
D	NI I I I I

Repeat off (indicator turns off): Normal playback resumes.

Front panel

Remote control unit







Tips

Performing random playback

Press RANDOM 🗙.

Canceling random playback

Press RANDOM X.

The \propto indicator on the display turns off.









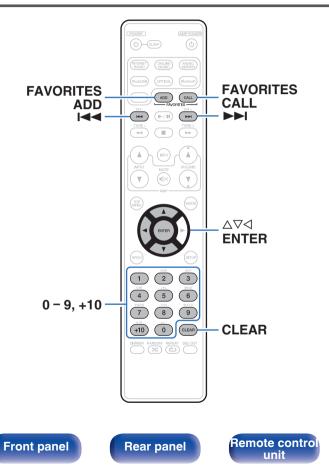




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Favorite function



This section provides information on the Favorite function.

- The Favorite function allows you to register your favorite broadcast stations and files in the Favorite List in advance so that you can call and listen to the stations or files right away, whenever you want.
- The contents that you can register and call are Internet radio station, music server, USB and iPod (only when using Remote iPod mode).
- You can register up to 50 items in the Favorite List.

Registering stations or files to the favorites list

- Press FAVORITES ADD while the Internet radio station or file to register is played back. The Favorite list appears.
- 2 Use $\Delta \nabla$ to select a number to register the station or file, and press ENTER.

"Added To Favorites" is displayed and the registration is competed.

Calling stations or files from the favorites list

- Press FAVORITES CALL.
- 2 Press I → I or △ ∨ to select the station or file that you want to call, and press ENTER.

The respective function starts up and playback starts.

Ó

Press 0 - 9, +10 to call files registered to the Favorite list by number.

To switch between registered stations and files during playback

Press \blacksquare \blacksquare \blacksquare or $\Delta \nabla$.

Deleting stations or files from the favorite list

- Press FAVORITES CALL.
- $\label{eq:linear} 2 \quad \text{Use } \triangle \nabla \text{ to select the station or file that you want to} \\ \text{delete, and press CLEAR.}$
- **3** When the prompt "Delete?" appears, press ENTER. "Deleted" is displayed and the deletion is completed.

Press \triangleleft to cancel the operation.

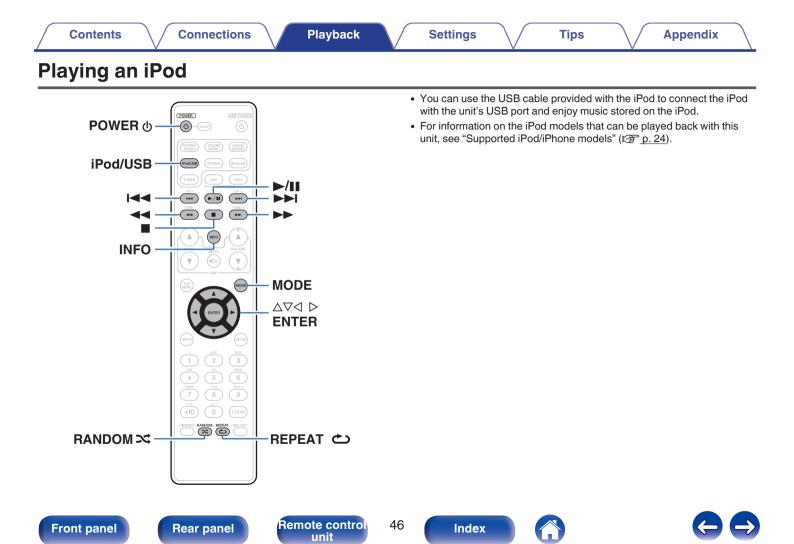


Remote control









Listening to music on an iPod

- Connect the iPod to the USB port. (CP p. 23)
- 2 Press iPod/USB to switch the input source to "iPod/ USB".

"Direct iPod" is displayed on the display of this unit.

3 Operate iPod itself directly while seeing the iPod screen to play back music.

._ . ..

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- The iPod display modes include "Direct iPod" and "Remote iPod". By default, "Direct iPod", where you directly operate the iPod itself while looking at the iPod screen, is set.
- To change to "Remote iPod" where operations are performed while the iPod information is displayed on this unit, see "Setting operation mode (Remote iPod mode)" (127 p. 48).
- You can also listen to iPod music using "AirPlay function" (2 p. 56).

NOTE

- Depending on the type of iPod and the software version, some functions may not operate.
- Note that Marantz will accept no responsibility whatsoever for any problems arising with the data on an iPod when using this unit in conjunction with the iPod.

Front panel

Remote control unit







Settings

Tips

Setting operation mode (Remote iPod mode)

In this mode, various lists and screens during playback on the iPod are displayed on the body.

This section describes the steps up to playing back tracks on the iPod in "Remote iPod".

- Press MODE and display "Remote iPod".
- $\label{eq:linear} 2 \quad \mbox{Use } {\bigtriangleup \nabla } \mbox{to select the file to be played, then press} \\ \mbox{ENTER.}$

Playback starts.

Display mode		Direct iPod	Remote iPod
Playable files	Music file	\checkmark	\checkmark
	Video file	*	
Active buttons	Remote control unit (This unit)	\checkmark	\checkmark
	iPod	\checkmark	

* Only the sound is played.

Operation buttons	Function		
►/II	Playback / Pause		
	Stop		
	Skip to previous track / Skip to next track		
**	(Press and hold) Fast-reverse / Fast-forward		
RANDOM ズ	Random playback		
REPEAT 👛	 Repeat playback Switching between Single-track repeat and All-track repeat. 		
MODE	Switching between Remote iPod or Direct iPod mode.		
$\Delta \nabla \triangleleft \triangleright$	Select the item		
ENTER	Enter the selected item		
INFO	Switching the artist name and album title.		

NOTE

• Marantz will accept no responsibility whatsoever for any loss of iPod data.

• Depending on the type of iPod and the software version, some functions may not operate.

Front panel

Remote control unit





Charging the iPod/iPhone

You can charge your iPod/iPhone by connecting it to USB port.

Standby charging

If the unit enters power standby mode while the iPod/iPhone is charging, the unit will switch to standby charging mode, and the iPod/ iPhone will continue to be charged. When in standby charging mode, the standbyr indicator lights turns orange.

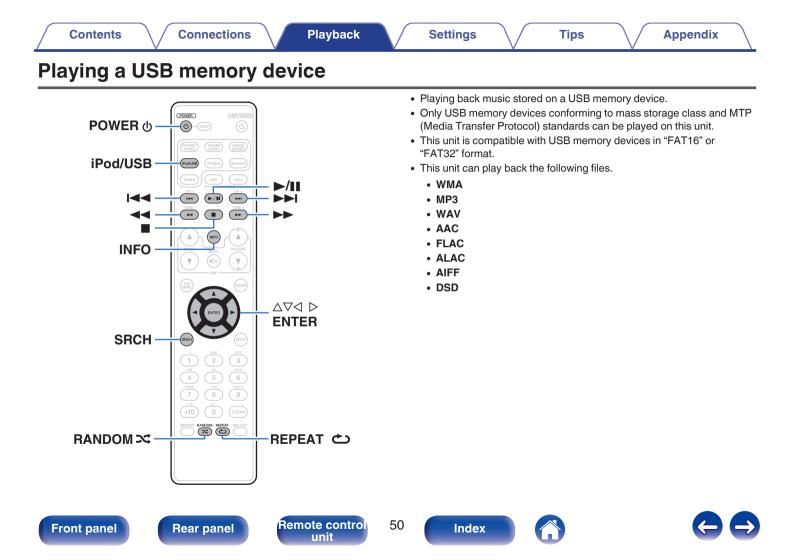
When the iPod/iPhone is fully charged, the unit automatically stops supplying power for charging and enters normal power standby mode, and the standby indicator lights turns red.

When the "Network Control" setting is "On", the power indicator lights orange when charging is complete.

Front panel







Tips

Playing files stored on USB memory devices

- Connect the USB memory device to the USB port. (☞ p. 23)
- **2** Press iPod/USB to switch the input source to "iPod/ USB".

Playback starts.

Operation buttons	Function			
►/II	Playback / Pause			
	Stop			
	Skip to previous track / Skip to next track			
	(Press and hold) Fast-reverse / Fast-forward			
RANDOM 🗙	Random playback			
REPEAT 👛	 Repeat playback Switching between Single-track repeat and All-track repeat. 			
SRCH	 Character search If the list is not in alphabetical order, you may not be able to perform a character search. 			
	Select the item			
ENTER	Enter the selected item			
INFO	Switching the artist name and album title.			

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.

Files that can be played back

See "Playing back a USB memory devices" (12 p. 99).

Front panel

Remote control unit



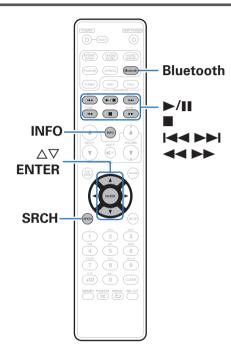






Playback

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 10 m.



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







Pairing with a 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.

Press Bluetooth to switch the input source to "Bluetooth".

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

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

At the end of the pairing, the device name appears on the display of this unit.

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

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

- When connecting a second Bluetooth device, either press and hold Bluetooth on the remote control unit or INPUT on this unit for approximately 3 seconds, or press SRCH when the input source is set to "Bluetooth" in order to pair with 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.
- When a number appears on the display of this unit, check that it is the same number as that shown on the screen of the Bluetooth device and then select "pair" for both the Bluetooth device and the unit. (To select "pair" on this unit, press ENTER on the unit.)
- Enter "0000" when the password is requested on the screen of the Bluetooth device.

Front panel

Remote control





Playing a Bluetooth device

Check the following before you play back music.

- The Bluetooth function of the Bluetooth device must be turned on
- Pairing must be completed

1 Press Bluetooth to switch the input source to "Bluetooth".

The unit will automatically connect to the most recently used Bluetooth device.

2 Start playing the Bluetooth device.

• The Bluetooth device can also be operated with the remote control of this unit.

Operation buttons	Function	
►/II	Playback / Pause	
	Stop	
	Skip to previous track / Skip to next track	
	(Press and hold) Fast-reverse / Fast-forward	

- When the power of this unit is turned on, the input source will be automatically switched to "Bluetooth" if a Bluetooth device is connected.
- When the "Network Control" setting of this unit is set to "On" and a Bluetooth device is connected with the unit in the standby state, the power of the unit will be turned on automatically.
- Press INFO on this unit during playback to switch the display between Title name, Artist name, Album name, etc.
- English letters, numbers and certain symbols are displayed. Incompatible characters are displayed as "." (period).

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.

Front panel







Pairing with the Pairing Mode

Pair a Bluetooth device with this unit.

Press SRCH when the input source is "Bluetooth".

The device will go into the pairing mode.

· Either press and hold Bluetooth for 3 seconds, or switch the input source to "Bluetooth" and then press and hold INPUT on this unit for more than 3 seconds to switch to pairing mode.

Select this unit when its name appears in the list of 2 devices displayed on the screen of the Bluetooth device.

At the end of the pairing, the device name appears on the display of this unit.

- When a number appears on the display of this unit, check that it is the same number as that shown on the screen of the Bluetooth device and then select "Pair" for both the Bluetooth device and the unit.
- Enter "0000" when the password is requested on the screen of the Bluetooth device.

Front panel

Remote control unit





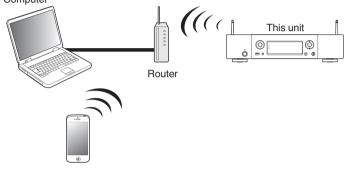




AirPlay function

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

Computer



- You can stop AirPlay playback by pressing ⊲ or choosing other input source.
- To see artist name or album name together, press INFO.
- For information about how to use iTunes, also see the Help for iTunes.
- The screen may differ depending on the OS and software versions.

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.

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

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

3 Tap the AirPlay icon .



4 Select the speaker (devices) you want to use.



Front panel

Remote control

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2

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 "On" for this unit. (1 p. 78)

NOTE

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

3 Start iTunes and click the AirPlay icon **a** to select the main unit.



4 Choose a song and click play in iTunes.

The music will stream to this unit.

Selecting multiple speakers (devices)

Tips

It is possible to play iTunes songs on your home's AirPlay compatible speakers (devices) other than those of this unit.

- Click the AirPlay icon 🖬 and select "Multiple".
- **2** Check the speakers you want to use.



Remote control unit



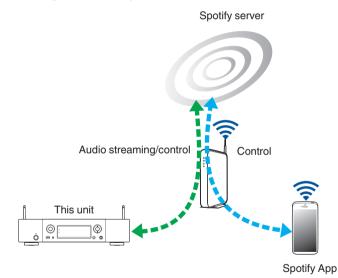




Spotify Connect function

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.

To try Spotify Premium free for 30 days, or learn more about Connect, please go to <u>www.spotify.com/connect</u>.



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 🖲 icon to select the unit.



The music will stream to this unit.



Remote control unit







Remote play function

You can use your home network to play back with this unit music files stored on PC, NAS, smartphones and portable audio players. In this case, you use PC, smartphones and portable audio players for operations.

- The relevant devices should comply with the DLNA (Digital Living Network Alliance) Ver. 1.5 standard.
- A wireless LAN environment is required for playing back music files on smartphones or portable audio players.
- For some smartphones, you must install an application for DLNA music playback.

Roles each device plays

The following devices are used for Remote Play. As specified in the DLNA standard, these devices are called DMC, DMS or DMR according to their role.

Name	Device example	Role
DMC (Digital Media Controller)	 Computer Smartphone Portable audio player Marantz "Hi-Fi Remote" app 	Performs Remote Play operations. DMC can also play back music files stored on these devices.
DMS (Digital Media Server)	 Computer NAS (Network Attached Storage) 	Stores music files. Music files stored on these devices are played back with DMC.
DMR (Digital Media Renderer)	• This unit	Outputs audio of music files played back through Remote Play from speakers. DMR cannot perform playback operations.

Files that can be played back

See "Playing back files stored on a PC and NAS" (p. 102).

Front panel

Remote control unit







Settings required for each device

You must make settings on DMC and DMS for Remote Play. Make the following settings. Also see the owner's manual of each device for settings.

Settings on computer and NAS

Make settings on computer and NAS to exchange data with DMR devices.

For details on the settings, see "Applying media sharing settings" (p. 40).

Settings on smartphones

You must install an application for DLNA music playback on your smartphone to perform operations on DMS and this unit (DMR) with your smartphone. The applicable application differs according to your smartphone.

Ó

Some smartphones support DLNA music playback with the factory settings. See the owner's manual of your smartphone.

Settings on portable audio players

Make settings so that this unit (DMR) can play back music files stored on your portable audio player. For settings, see the owner's manual of your portable player.

Settings on this unit

Connect this unit to the DLNA network. You do not need to make other settings.

For the network connection, see the provided Quick Start Guide, "Connecting to a home network (LAN)" (<u>P p. 25</u>) and "Network" (<u>P p. 78</u>).

Front panel

Remote control







Contents

Remote Play operations

Operations are different for each device, but the procedures for preparing for Remote Play are the same. The preparation procedures are shown below.

Turn on this unit.

Make sure that this unit is connected to the network.

Display the music file playback screen on DMC. 2

- For PC, open Windows Media Player 12, etc.
- For smartphones, switch to the music file playback mode.
- 3 Select the friendly name of this unit for the item that sets the playback device on the playback screen.
 - The default Friendly Name of this unit is "Marantz NA6005".

Start playing back a music file on DMC. Δ

· The function on this unit automatically switches to Music Server and the Remote Play mark 🚔 appears on the display. Remote Play starts.

Press ⊲ to exit Remote Play mode.



During Remote Play, you cannot perform playback operations with this unit. Use the DMC device for these operations.

Tips

Front panel

Remote control unit

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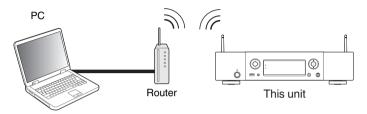






Web control function

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



<u>e</u>

- This unit and the PC need to be connected to the network properly in order to use the web control function. (129 p. 25)
- 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 "On". (@ <u>p. 78</u>)
- 2 Check the IP address of this unit with "Network Information". (<u>(CP p. 78</u>)



Start up the web browser.

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3





Enter the IP address of this unit in browser's address box.

For example, if the IP address of this unit is "192.168.0.2", enter "http://192.168.0.2".

	2. ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
<u>NETWORK</u>	Please select the menu.
<u>FIRMWARE</u>	

- ① Entering the IP address.
- (2) If you are using the Safari web browser, you can select "Bonjour" and directly access the unit's web control screen from the overview section.

ø

By adding this unit's IP address to the browser's bookmark, you can display the web control screen using the bookmark function the next time you use the browser. If you are using a DHCP server and "Network Control" ($\bigcirc p.78$) is set to "Off", turning the power on/off changes the IP address.

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

<u>'network</u> ' ← <u>3</u> ' <u>Firmware</u> , ← <u>4</u>	Please select the menu.

③ Click when you setup network settings. (() [Example 1])
 ④ Click when you update firmware. () 66)



Remote control unit







6 Operate.

[Example 1] Network Setting 1

<u>NETWORK</u> FIRMWARE	
	Friendly Name
	Network Connection Select Connection Wired Test Connection 9

Friendly Name setting

- (5) To change the Friendly Name, enter the new name in the text box and click "Set".
- (6) To reset the Friendly Name, click "Set Default".

Only characters that can be displayed on this unit can be set. ($\underline{rp. 72}$)

Network connection settings

- Click to change the network connection method. If you select "Wi-Fi", a new item will appear on-screen. (Cp [Example 2])
- (8) Click to change DHCP/proxy settings. ((2) [Example 2])
- (9) Click to connect using the newly applied settings.

Front panel







Operate.

[Example 2] Network Setting 2

<u>NETWORK</u> FIRMWARE		ORK		
	Friendly Name			
	Marantz NA6005	Set Set Defa	ault	
	Network Connection	1		
	Select Connection	Wi-Fi		
	Wi-Fi Setup	Manual		
	Manual			
	S SID			
	Security	None		
	Security Key			
	Defaullt Key	Key1		
		Test Connection		
	[-]DHCP or Proxy DHCP			
	1 Brief	ON OFF		
	IP Address	192.168.000.001		
	Subnet Mask	255.255.255.000 000.000.000.000		
	Gateway	000.000.000.000		
	Primary DNS	000.000.000.000		
	Secondary DNS			
	Proxy Address Or Name	ON OFF	l l	
		Address I Name		
	Address Port	000.000.000.000		
		00000		
	Sav	e DHCP Proxy Settings		
				- L

Network connection settings

- (1) [Example 2] Displayed when "Wi-Fi" is selected in (7). Select or input items as necessary, and then click "Test Connection" to apply the changes.
 - Items displayed may vary depending on selected items and connection status.
 - After selecting each item, wait a moment for the display to be updated.
- (f) [Example 2] Displayed when "DHCP" or "Proxy" is selected in (a). When changing DHCP/proxy settings, input or select for each item.

To apply network connection settings, click "Test Connection" after making changes.

Front panel

Remote control unit







Contents

Front panel

Update on web screen

"Web control function" (2 p. 62) Settings must be completed in advance on a computer belonging to the same network. For information on obtaining update files, please contact our customer service center.

Click ④ from step 5 for the "Web control function" (12 <u>p. 62</u>).

The PC will display the following screen.

Wait for approximately 1 minute.

You can also gain access by entering the IP address shown by the unit into a web browser.

[The web display]

FIRMWARE		
Please wait		

[The unit's screen display]

IpAddress 192.168.xxx.xxx

Rear panel

2 When the following screen is displayed by the PC, click the "Choose File" (①) button, select the update file, and click the "Upload" (②) button.

Firmware		
Upload new firmware Upload 2	Choose File	







\int	Contents Connections Playback		Settings Tips Appendix
3	Click "OK" (③). Updating will begin.	4	When the following screen is displayed, updating is complete.
Firmware Warning: Once started,the upload process cannot be interrupted or adorted, in order to ensure the integrity of the Digital Media Player. Are you sure you warn to proceed?			Firmware New Firmware: xxx.fw
	ок 🗲 (3)		Firmware upload status: 100% completed. The upload process finished successfully. Please close this.

NOTE

Do not operate the unit while updating is in progress.

Front panel



Remote control unit 67





Button names may vary depending on the OS language used on your computer.



Using as a D/A converter

Connect and playback from a digital device (Optical)

Press the input source select button (OPTICAL) to switch the input source to "Optical".

The digital audio signal that is being input is shown as follows in the display.

Optical PCM xxxkHz

(xxxx is the sampling frequency.)

- If the sampling frequency cannot be detected, "Signal Unlock" will be displayed.
- "Unsupported" is displayed when audio signals that are not supported by this unit are input.

Files that can be played back

See "D/A converter" (main p. 100).

NOTE

- Do not input non-PCM signals, such as Dolby Digital, and DTS. This causes noise and could damage the speakers.
- If the sampling frequency switches, such as from A mode to B mode in a CS broadcast, muting may operate for 1 – 2 seconds, cutting the sound.











Menu map

For menu operations, see the following page.

By default, this unit has recommended settings defined. You can customize this unit based on your existing system and your preferences.

Quick Setup

Setting items	Description	Page
Quick Setup	Performs the network settings using a Wizard style window. For details on the operations, see the separate	
	"Quick Start Guide".	

General

	Setting items Description		Page
Langua	Language Sets the language for display the menu.		<u>74</u>
Auto-Standby Sets the unit power to standby when the unit is not in use.		<u>74</u>	
Usage Data Selects whether or not to send anonymous usage data to Marantz. <u>75</u>		<u>75</u>	
		Set whether or not to check for firmware update, update the firmware, and display update and upgrade notifications.	
	Update Update the firmware of this unit.		<u>75</u>
	Notifications Set the Update, Upgrade and Alerts notification on/off.		<u>76</u>
	Add New Feature	Display new features that can be downloaded to this unit and perform an upgrade.	<u>76</u>

Remote control unit







Contents

Network

Setting items		Description	
let	work Information	Displays various information about the network.	<u>78</u>
Network Control		Performs the ON/OFF settings for the network function when in standby mode.	<u>78</u>
rie	endly Name	Edits a name displayed on the Internet.	<u>79</u>
ett	tings	Performs the settings for a wired or wireless LAN.	<u>79</u>
۷	Vired Setup	Performs the settings for a wired LAN.	
	DHCP (On) or DHCP (Off)	Performs the DHCP setting.	<u>79</u>
	IP Address *	Performs the IP address setting.	<u>80</u>
	Subnet Mask *	Performs the subnet mask setting.	<u>80</u>
	Gateway *	Performs the gateway setting.	80
	Primary DNS *	Performs the primary DNS setting.	80
	Secondary DNS *	Performs the Secondary DNS setting.	<u>80</u>
	Proxy	Performs the proxy setting.	<u>80</u>
	Test Connection	Performs the wired LAN connection.	-
۷	Vi-Fi Setup Method	Performs the wireless LAN connection setting.	<u>81</u>
	Auto-Scan	Selects and sets the wireless connections from the access point list.	<u>81</u>
	Share Wi-Fi setting from an iOS device	Sets the wireless connection using an iOS device. (iOS version 7 or later)	<u>82</u>
	WPS (Wi-Fi Protected Setup)	Sets the wireless connection using WPS (Wi-Fi Protected Setup).	<u>82</u>
	Web Browser Setup	Sets the wireless connection using web browser.	<u>82</u>
	Manual	Sets the wireless connection manually.	85

* Displayed when the "DHCP" setting is "Off".

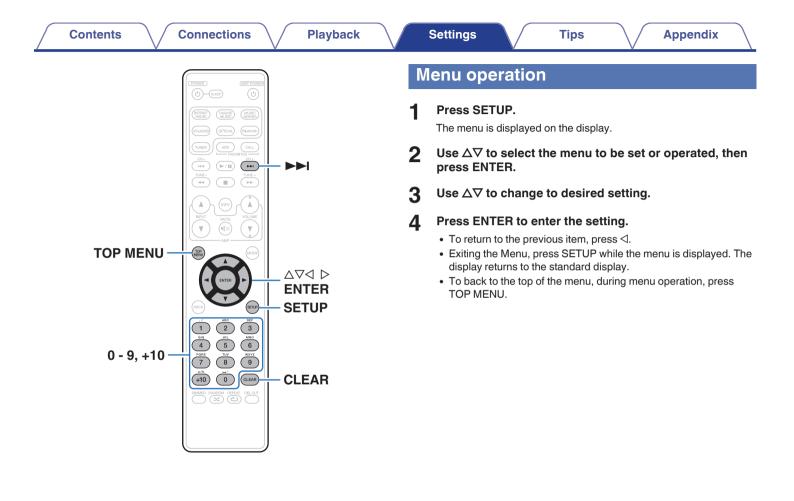


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Remote control unit





Inputting characters

On this unit, the names displayed for Friendly Name and search, screens can be changed as desired. You can also enter characters to search Internet radio stations and music files.

For inputting characters, there are two methods, as shown below.

Method	Operations
	 Operating with the remote control.
Using the number buttons	 Multiple characters are assigned to a button, and each time the button is pressed, a character is switched.
Using the cursor buttons	Operating with the remote control or the main unit.
	 Use △∇⊲ ▷ and ENTER to input characters.

Display of an input screen

[Friendly name input]



- *The current input character type is displayed.
 - (Use +10 to switch the character type.)
- a : Lower case
- A : Upper case
- 1: Numerics









Contents

Using the number buttons

- **1** Display the screen for inputting characters.
- **3** Press +10 to select the character type (upper case, lower case, or numeric characters), and press 0 9 to select the desired character.
 - The types of characters that can be input are as shown below.



4 Repeat step 2 and 3 to change the name then press ENTER to register it.

Using the cursor buttons

- Display the screen for inputting characters.
- 2 Use $\triangleleft \triangleright$ to move the cursor to the character that you wish to change.

3 Use $\Delta \nabla$ to change the character.

• The types of characters that can be input are as shown below.

[Lower case]
abcdefghijklmnopqrstuvwxyz
[Upper case]
ABCDEFGHIJKLMNOPQRSTUVWXYZ
[Symbols] ^{! "#\$%&`()*+,/:;<=>?@ [\]^_`{ }~}
[Numbers] 0123456789 (Space)
 Press CLEAR to delete the character.

- Press >>> to insert a space.
- 4 Repeat step 2 and 3 to change the name then press ENTER to register it.



Remote control unit







General

Make various other settings.

Language

Sets the language for display the menu.

English / Deutsch / Française / Italiano / Nederlands / Español / Svenska / Русский / Polski (Default : English)

Auto-Standby

When "Auto-Standby" is set to "On", and no operations are made in the stopped state for the set amount of time, this unit automatically enters standby mode.

When the input source is "Direct iPod" and no operation is performed for eight hours, this unit automatically enters the standby mode.

hen "Other" is selected, the "Auto-Standby" time n be set within the range of 1 - 99 minutes. elect the value using $\Delta \nabla$ and then press ENTER enter the setting value.
e unit does not go into standby automatically.

Front panel

Remote control unit







Contents

Usage Data

For product improvement purposes, please send information on the device settings and operating conditions of the functions to Marantz. Information provided by customers will be used as reference material for product development purposes in the future.

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.

Firmware

Set whether or not to check for firmware update, update the firmware, and display update, upgrade and alert notifications.

Update

Update the firmware of this unit.

Check For Update:	Check for firmware updates.
Update Start:	Execute the update process.

Even if the update fails, this unit will automatically try to update again.









Contents

Notifications

Notification messages are displayed in the screen when the power is switched on when new firmware can be used, or when there are other notification messages.

Update

On (Default):	Display update message.
Off:	Do not display update message.
Upgrade	
On (Default):	Display upgrade message.
Off:	Do not display upgrade message.
Notification	Alerts
On (Default):	Displays notification messages from Marantz in the popup menu.
Off:	Does not display notification messages from Marantz in the papur

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 Start:	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.
Upgrade ID:	The ID number shown on the display is needed when carrying out the procedure.

- 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, "Not Registered" is displayed.

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the popup menu.

Remote control unit







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

- In order to add new functions, the environment and settings required for connecting to broadband internet are needed. (<u>Pp. 25</u>)
- Perform the add new feature operation after at least 2 minutes has elapsed since turning this unit's power on.
- Do not turn off the power until updating or upgrading is completed.
- Even with a broadband connection to the Internet, approximately 20 minutes 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, updating/upgrading the firmware may reset the backup data for the parameters, etc. set for this unit.
- When the update or upgrade failed with a message such as "Update failed" and "Download failed", remove and re-insert the power cord.
 "Update Retry" appears on the display and update restarts from the point at which update failed. If the error continues despite this, check the network environment.

Ø

Information regarding the "Update" function and "Add New Feature" will be announced on the Marantz web site each time related plans are defined.

Front panel

Remote control







С	0	n	te	en	ts	2
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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 via DHCP, set "DHCP" to "On" (use the default setting). This allows this unit to use your home network.

If you assign an IP address for each device, you must use the "IP Address" setting to assign an IP address to this unit and enter the information about your home network such as the gateway address and subnet mask.

Network Information

Display network information.

Friendly Name / DHCPOn or Off / IP Address / MAC Address / SSID*

* This is displayed only while a Wi-Fi connection is enabled.

Network Control

Enables network communication in standby power mode.

On:	The network function can be used when in standby power mode. Main unit operable with a network compatible controller.
Off (Default):	The network function cannot be used in standby power mode.

Set to "On" when using the web control function or a network compatible controller.

NOTE

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

Remote control







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.

Friendly Name

When you press ENTER, you can change the Friendly Name according to your preferences.

- Up to 63 characters can be input.
- For character input, see "Inputting characters" (2 p. 72).
- The default Friendly Name on first use is "Marantz NA6005".

Default

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

Settings

You can make detailed settings for the network.

To change the network environment, perform "Quick Setup". (For details on the operations, see the separate "Quick Start Guide".)

- If you are using a broadband router (DHCP function), there is no need to make the settings at "IP Address" and "Proxy", since the DHCP function is set to "On" in this unit's default settings.
- Only set "Settings" when connecting to a network without a DHCP function.

Wired Setup

DHCP

Selects how to connect to the network.

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

Off: Configure the network settings manually.

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Remote control

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Contents

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.

Gateway

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

Primary DNS, Secondary DNS

If there is only one DNS address indicated in the documentation supplied by your provider, enter it for "Primary DNS". If two or more DNS are provided by your provider, enter one for "Secondary DNS".

D Proxy

Make this setting when connecting to the Internet via a proxy server. Make the proxy settings only when you connect to the Internet via a proxy server that is on your internal network or provided by your provider, etc.

Proxy (Off) or Proxy (On):	Set the proxy server.
Proxy (Address) or Proxy (Name):	Select when inputting by address or domain name.
Address or Name:	Inputting address or domain name. Up to 38 characters can be input.
Port:	Enter port number.

- If you cannot connect to the Internet, recheck the connections and settings.
 (12) p. 25)
- If you do not understand about Internet connection, contact your ISP (Internet Service Provider) or the store from which you purchased your computer.

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Contents

Wi-Fi Setup Method

In this menu, Wi-Fi settings and connections can be made using any of the five connection methods.

Auto-Scan /Share Wi-Fi setting from an iOS device / WPS (Wi-Fi Protected Setup) / Web Browser Setup / Manual

- If a LAN cable is connected, remove it.
- See the Quick Setup Guide for details on how to connect to Wi-Fi using the Wi-Fi CONNECT button on the rear panel.

Auto-Scan

1

This automatically searches for networks.

From the list of the networks, select the one you want to connect to.

• Select "Rescan" if the network cannot be found.

2 Make the following settings.

	Select the default key.
Default Key:	 When connecting to a WEP encrypted network, "Default Key" menu is displayed.
Password:	Input the password.
DHCP/Proxy:	Performs the DHCP and proxy setting.
Briot / Toxy.	(<u>©_p. 79</u> , <u>80</u>)
Test Connection: Test the connection.	

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Remote control unit







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2

□ Share Wi-Fi setting from an iOS device

You can use an iOS device such as an iPhone or iPad to configure Wi- $\ensuremath{\mathsf{Fi}}$ settings.

After selecting this item, select Settings/Wi-Fi from the iOS device home screen, select "Marantz NA6005" displayed at the bottom of the screen, and then follow the setting instructions displayed on the iOS device.

For details, see the "Quick Start Guide".

The iOS version must be 7 or later.

□ WPS (Wi-Fi Protected Setup)

Register the PIN code of the unit in the router.

Web Browser Setup

Use a web browser to set up Wi-Fi. A Wi-Fi device that can perform web browse operations is required.

Read the precautions on the screen, and press ENTER.

Select Wi-Fi network called "Marantz NA6005" from your Wi-Fi device.

The IP address (192.168.1.16) appears on the unit.









3 Enter the IP address of this unit in browser's address box.



- (1) Entering the IP address (192.168.1.16).
- (2) If you are using the Safari web browser, you can select "Bonjour" and directly access the unit's web control screen from the overview section.

4 When the top menu is displayed, click "NETWORK".

Please select the menu.

(3) Click "NETWORK". (C [Example 1])

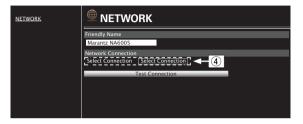
Front panel





5 Operate.

[Example 1] Network Setting 1



Network connection settings

 ④ Click to change the network connection method. If you select "Wi-Fi", a new item will appear on-screen.
 (Imp[Example 2])

[Example 2] Network Setting 2

NETWORK	
	Friendly Name
	Marantz NA6005
	Network Connection
	Select Connection Wi-Fi
	SSID
	Security None 5
	Defaulit Key Keyl
	Test Connection

Network connection settings

- (5) [Example 2] Displayed when "Wi-Fi" is selected in (4). Select or input items as necessary, and then click "Test Connection" to apply the changes.
 - Items displayed may vary depending on selected items and connection status.
 - After selecting each item, wait a moment for the display to be updated.

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To apply network connection settings, click "Test Connection" after making changes.

Front panel

Remote control unit





Manual

Sets the wireless connection manually

	· · · · · · · · · · · · · · · · · · ·					
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.					
Default Key:	 Select the Default Key. When connecting to a "WEP" encrypted network, "Default Key" menu is displayed. 					
Password:	Input the password.					
DHCP/Proxy:	Performs the DHCP and proxy setting. ((2) <u>p. 79</u> , <u>80</u>)					
Test Connection	Test Connection: Test the connection.					









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Tips

I want to enjoy analog output audio at higher quality

- Press DIG. OUT on the remote control unit to turn digital audio output off. (127 p. 34)
- Press the DIMMER button to turn the display off. (p. 34)

I want to display the title, etc. of the file currently playing back on the iPod on this unit's display

• Press the MODE button to set Remote iPod mode. (p. 48)

Simple operations in the power off state

- Press the > or >/II button to automatically turn the unit's power supply on and start playback of the last selected input source.
- When the "Network Control" function is set to "On", you can perform playback, or other operations through AirPlay, Marantz "Hi-Fi Remote" app.

I only want to recharge my iPod

• Connect the iPod to this unit when the unit power is on. Then turn the unit power off, and the iPod will continue to charge until fully charged. (127 p. 49)

Changing or resetting the network environment

• Prepare the provided Quick Start Guide, and run "Quick Setup" from the setup menu. For detailed settings, run Setup - "Network" - "Settings". (127 p. 79)









Troubleshooting

- 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 this unit does not operate properly, check the items listed in the table below.

Should the problem persist, there may be a malfunction. In this case, disconnect the power immediately and contact your store of purchase.

Power does not turn on / Power is turned off

Symptom	Symptom Cause / Solution				
Power is not turned on.	ot turned on. • Check whether the power plug is correctly inserted into the power outlet.				
	 This unit is in standby mode. Press Φ on the unit or POWER Φ on the remote control. 	<u>32</u>			
Power automatically turns	The sleep timer is set. Turn on the power again.	<u>34</u>			
off.	• "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".	<u>74</u>			

LED is flashing

Symptom	Cause / Solution	Page
Flashing red.	• A circuit in the unit has malfunctioned. Disconnect the power and contact the repair center.	-







Operations cannot be performed through the remote control unit

Symptom	Cause / Solution	Page
Operations cannot be	Batteries are worn out. Replace with new batteries.	<u>6</u>
performed through the remote control unit.	• Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°.	<u>7</u>
emote control unit.	Remove any obstacle between this unit and the remote control unit.	-
	- Insert the batteries in the proper direction, checking the \oplus and \ominus marks.	<u>6</u>
	• 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.	_
	When using this unit independently, set the switch to "INTERNAL".	<u>29</u>

Display on this unit shows nothing

Symptom	Cause / Solution	Page
Display is off.	 Press DIMMER, and change the setting to anything other than off. 	<u>34</u>









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■ No sound comes out

Symptom	Cause / Solution	Page
No sound is produced. Or	Check the connections for all devices.	<u>19</u>
sound is distorted.	Insert connection cables all the way in.	_
	Check that input connectors and output connectors are not reversely connected.	_
	Check cables for damage.	_
	Check the amplifier's functions and controls and adjust as necessary.	_

Sound is interrupted or noise occurs

Symptom	Symptom Cause / Solution				
During playback from the	When the transfer speed of the USB memory device is slow, sound may occasionally be interrupted.	—			
Internet radio or USB memory device, sound is occasionally 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 20 cm or longer between iPhone and this unit.	_			
Sound cuts out when using Wi-Fi connection.	 If nearby devices cause playback to cut out due to electronic interference, switch to a wired LAN connection. 	<u>79</u>			
	 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. 	<u>79</u>			

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■ iPod cannot be played back

Symptom	Cause / Solution	Page
iPod cannot be connected.	When using iPod by connecting it to the USB port, some iPod variations are not supported.	<u>24</u>
	When iPod is connected by using a USB cable other than the genuine cable, iPod may not be recognized. Use a genuine USB cable.	_
The AirPlay icon I is not displayed on iPhone / iPod	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.	<u>25</u>
ouch / iPad.	• The firmware on iTunes / iPhone / iPod touch / iPad is not compatible with AirPlay. Update the firmware to the latest version.	_
No sound is produced.	• 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.	<u>56</u>
Audio is interrupted during the AirPlay playback on	Quit the application running in the background of the iPhone/iPod touch/iPad, and then play using AirPlay.	_
hone / iPod touch / iPad.	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.	_

Front panel

Remote control unit







Playback

Settings

■ USB memory devices cannot be played back

Symptom	Cause / Solution	Page
"No Connection" is displayed.	• This unit may not recognize the USB memory device due to poor connection, etc. Make sure that the connection is made properly by taking actions such as disconnecting and reconnecting the USB memory device.	<u>23</u>
	USB memory devices of a mass storage class or those compatible with MTP 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 FAT16 or FAT32.	_
	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	Files of a type not supported by this unit are not displayed.	<u>50</u>
device are not displayed.	• This unit can display a file structure with up to 8 levels and up to 5000 subfolders and files in total. 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.	_
Files on a USB memory	• Files are created in a format that is not supported by this unit. Check the formats supported by this unit.	<u>50</u>
device cannot be played.	Files that are copyright protected cannot be played on this unit.	_
	• You are attempting to play a file that is copyright protected. Files that are copyright protected cannot be played on this unit.	_







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File names on the iPod/USB memory device are not displayed properly

Symptom	Cause / Solution	Page
The file names are not displayed properly ("", etc.).	 Characters that cannot be displayed have been used. On this unit, characters that cannot be displayed are replaced with a "." (period). 	_

The Internet radio cannot be played back

Symptom	Cause / Solution	Page
A list of broadcasting stations is not displayed.	• The LAN cable is not properly connected, or the network is disconnected. Check the connection status.	<u>25</u>
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.	<u>36</u>
	The firewall function is enabled on the router. Check the firewall setting.	—
	Check the power of the router is on.	-
	The IP address is not properly set. To obtain the IP address automatically, enable the DHCP server function on the router. Also, set the DHCP setting to "On" on this unit.	<u>79</u>
	To obtain the IP address manually, set the IP address and proxy on this unit.	<u>79</u>
	• 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.	<u>36</u>
Cannot connect to favorite radio stations.	Radio station is not currently in service. Register radio stations in service.	_
For some radio stations, "Connection Down" is displayed and station cannot be connected to.	The selected radio station is not in service. Select a radio station in service.	_

Remote control unit







Music files on PC or NAS cannot be played back

Symptom	Cause / Solution	Page
Files stored on a computer	Files are stored in a non-compatible format. Record in a compatible format.	102
cannot be played.	Files that are copyright protected cannot be played on this unit.	-
	Media sharing settings are not correct. Change media sharing settings so that the unit can access the folders on your computer.	<u>40</u>
Server is not found, or it is	• The computer's or router's firewall is activated. Check the computer's or router's firewall settings.	-
not possible to connect to the server.	Computer's power is not turned on. Turn on the power.	_
	Server is not running. Launch the server.	-
	Set's IP address is wrong. Check the set's IP address.	<u>62</u>
Files on PC or NAS are not displayed.	Files of a type not supported by this unit are not displayed.	<u>102</u>
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.	_
	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.	<u>40</u>
	If connection is restricted, set audio equipment as the connection target.	-

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■ Audio from digital devices cannot be played back (Optical)

Symptom	Cause / Solution	Page
"Signal Unlock" is displayed.	When digital audio signals cannot be detected properly, "Signal Unlock" is displayed.	<u>68</u>
"Unsupported" is displayed.	"Unsupported" is displayed when audio signals that are not supported by this unit are input. Check the audio output signal format from your digital device.	<u>68</u>











Cannot connect by Wi-Fi

Symptom	Cause / Solution	Page
Cannot connect to the network.	The network name and password (WEP, etc.) settings are wrong. Configure the network settings according to the setting details of this unit.	<u>84</u>
	Reduce the distance between the wireless LAN access point and this unit, remove any obstructions and make sure the view to the access point is unobstructed before trying to connect again. Also, install microwave ovens and other network access points as far away as possible.	_
	Check the router power supply.	_
	This unit supports IEEE802.11.b/g/n.	—
	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 WPS.	Check that the WPS mode of the router is operating.	_
	Press and hold the Wi-Fi CONNECT WPS button on this unit for approx. 3 seconds within 2 minutes of operating the router.	_
	• 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)".	<u>79</u>
	If the router encryption method is WEP/WPA-TKIP/WPA2-TKIP, you cannot connect by using the Wi-Fi CONNECT/WPS button. In this case, use the "Auto-Scan" or "Manual" method to connect.	<u>69</u>
Cannot connect to the	Update the iPhone/iPod touch/iPad firmware to the latest version.	_
network using iPhone/iPod ouch/iPad.	• When using a USB cable to configure the settings, the iOS device firmware version needs to support iOS 5 or later. When configuring the settings via a wireless connection, iOS 7 or later needs to be supported.	_

Remote control unit







Bluetooth cannot be played back

Symptom	Cause / Solution	Page
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.	_
	Set "Network Control" to "On" and connect again.	<u>78</u>
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.	_

Remote control unit





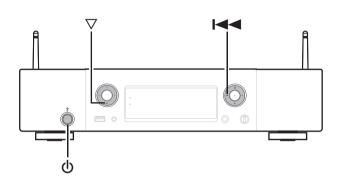




A

Resetting factory settings

Perform this procedure if the display is abnormal or if operations cannot be performed. Various settings are reset to the factory default values. Make settings again.



- **When power is switched to standby.**
- 2 Press the ⁽¹⁾ button while pressing [¬] and I ◄ together on this unit.

"Initialized" appears in the display.

If "Initialized" does not display in step 2, start over from step 1.







unit

Index

Settings

Playing back a USB memory devices

Connections

- This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
- This unit is compatible with WMA META tags.
- If the image size of an album artwork exceeds 600 kB, then music may not be played back properly.

Playback

Compatible formats

Contents

Samplin frequence WMA*1 32/44.1/48 MP3 32/44.1/48 WAV 32/44.1/48 WAV 32/44.1/48 MPEG-4 AAC*1 32/44.1/48 FLAC 32/44.1/48	kHz 48 kHz 32 - 3 kbp -3 5.4/ - 16 - 3 -	leng 192 320 0s 16/24 320	ith t	.wma .mp3 .wav .aac/ .m4a/
MP3 32/44.1/48 WAV 88.2/96/17 192 kHz MPEG-4 AAC*1 32/44.1/48 32/44.1/48	KHZ kbp kHz 32 - 3 kHz 32 - 3 kHz 6.4/ z - kHz 16 - 3	320	bits	.mp3 .wav .aac/
WAV 32/44.1/4 88.2/96/17 192 kHz MPEG-4 AAC*1 32/44.1/48 32/44.1/48 32/44.1/48	кHz kbp 8/ 6.4/ – кHz 16–3	16/24 320 _	bits	.wav .aac/
WAV 88.2/96/17 192 kHz MPEG-4 AAC*1 32/44.1/48 32/44.1/48 32/44.1/48	6.4/ –	320 _	bits	.aac/
32/44.1/4	KH7 I			
		15		.mp4
192 kHz	6.4/ –	16/24	bits	.flac
ALAC*2 32/44.1/4 88.2/96k		16/24	bits	.m4a
AIFF 32/44.1/4 88.2/96/17 192 kHz	6.4/ –	16/24	bits	.aif/ .aiff
DSD (2-channel) 2.8/5.6 M				.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.

Tips

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NOTE

Signals with a sampling frequency of 32 kHz and DSD signals cannot be output from the Digital Audio Out connector of this unit.



Maximum number of playable files and folders

The limits on the number of folders and files that can be displayed by this unit are as follows.

Media Item	USB memory device
Memory capacity	FAT16 : 2 GB, FAT32 : 2 TB
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.

D/A converter

Compatible formats

Optical

	Sampling frequency	Bit length
Linear PCM (2-channel)	32/44.1/48/64/88.2/96/ 176.4/192 kHz	16/24 bits

Tips









Playing back Internet Radio

	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	16 – 320 kbps	.aac/ .m4a/ .mp4

Playable broadcast station specifications









Remote control unit 102

Playing back files stored on a PC and NAS

Playback

- This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
- This unit is compatible with WMA META tags.
- If the image size of an album artwork exceeds 600 kB, then music may not be played back properly.

Connections

 A server or server software compatible with distribution in the corresponding formats is required to play music files via a network.

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.

Playback file specifications

Settings

	Sampling frequency	Bit rate	Bit length	Extension
WMA *1	32/44.1/48 kHz	48 – 192 kbps	-	.wma
MP3	32/44.1/48 kHz	32 – 320 kbps	-	.mp3
WAV	32/44.1/48/ 88.2/96/176.4/ 192 kHz	-	16/24 bits	.wav
MPEG-4 AAC*1	32/44.1/48 kHz	16 – 320 kbps	-	.aac/ .m4a/ .mp4
FLAC	32/44.1/48/ 88.2/96/176.4/ 192 kHz	-	16/24 bits	.flac
ALAC*2	32/44.1/48/ 88.2/96kHz	-	16/24 bits	.m4a
AIFF	32/44.1/48/ 88.2/96/176.4/ 192 kHz	-	16/24 bits	.aif/ .aiff
DSD (2-channel)	2.8/5.6 MHz	-	-	.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.
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NOTE

Signals with a sampling frequency of 32 kHz and DSD signals cannot be output from the Digital Audio Out connector of this unit.

Playing back Bluetooth devices

This unit supports the following Bluetooth profiles.

• A2DP (Advanced Audio Distribution Profile) :

When a Bluetooth device that supports this specification is connected, you can perform high quality streaming distribution of monaural and stereo audio data.

• AVRCP (Audio/Video Remote Control Profile) :

When a Bluetooth device that supports this specification is connected, you can operate the Bluetooth device from this unit.

Bluetooth communications

The radio waves broadcast from this unit may interfere with operations on medical equipment. The radio wave interference may cause a malfunction. Therefore, make sure to turn off power to this unit and Bluetooth devices in the following places.

- Hospitals, trains, airplanes, gas stands, and other places where flammable gas may occur.
- Places near automatic doors and fire alarms.

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	Contents	Connections	Playback	Settings	Tips	Appendix
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Last function memory

This stores the settings as they were immediately before going into the standby mode.

When the power is turned back on, the settings are restored to as they were immediately before going into the standby mode.









Explanation of terms

Audio

ALAC (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.

AIFF (Audio Interchange File Format)

This is an uncompressed and lossless format for digital audio. Use AIFF files to burn high-quality audio CDs from imported songs. AIFF files use approximately 10 MB of disk space per minute.

DSD (Direct-Stream Digital)

One of the audio data recording methods, it is the signal aspect used to store audio signals on a super audio CD, and is Δ - Σ modulated digital audio. It is configured of an array of single bit values at a 2.8224 MHz sampling rate.

FLAC

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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Contents

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.

Bit rate

This expresses the read amount per 1 second of video/audio data recorded. A larger number means higher sound quality, but also means a larger file size.

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Network

AES (Advanced Encryption Standard)

This is a next generation standard encryption method replacing the current DES and 3DES, and because of its high security it is expected to be applied widely to wireless LANs in the future. It uses the "Rijndael" algorithm developed by two Belgian cryptographers to divide the data into blocks of fixed lengths and encrypt each block. It supports data lengths of 128, 192 and 256 bits and key lengths of 128, 192 and 256 bits as well, offering extremely high encryption security.

AirPlay

AirPlay sends (plays) contents recorded in iTunes or on an iPhone/iPod touch/iPad to a compatible device via the network.

DLNA

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IEEE 802.11b

This is one wireless LAN standard set by the 802 working group that establishes LAN technology standards at the IEEE (Institute of Electrical and Electronics Engineers) of the United States. It uses the 2.4 GHz band usable freely without a radio frequency license (ISM band), enabling communications at a maximum speed of 11 Mbps.

The value indicated above is the maximum theoretical value for the wireless LAN standard, and does not indicate the actual data transfer rate.

IEEE 802.11g

This is another wireless LAN standard set by the 802 working group that establishes LAN technology standards at the IEEE (Institute of Electrical and Electronics Engineers) of the United States, and is compatible with IEEE 802.11b. It also uses the 2.4 GHz band, but enables communications at a maximum speed of 54 Mbps.

The value indicated above is the maximum theoretical value for the wireless LAN standard, and does not indicate the actual data transfer rate.









IEEE 802.11n

This is one wireless LAN standard set by the 802 working group that establishes LAN technology standards at the IEEE (Institute of Electrical and Electronics Engineers) of the United States. And is compatible with IEEE 802.11a/b/g. It uses the 2.4/5 GHz band, enabling communications at a maximum speed of 600 Mbps.

The value indicated above is the maximum theoretical value for the wireless LAN standard, and does not indicate the actual data transfer rate.

TKIP (Temporal Key Integrity Protocol)

This is a network key used for WPA. The encryption algorithm is RC4, the same as for WEP, but the security level is increased by changing the network key used for encryption for each packet.

vTuner

This is a free online content server for Internet Radio.

For inquiries about this service, visit the vTuner site below. vTuner website:

http://www.radiomarantz.com

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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.

WPA (Wi-Fi Protected Access)

This is a security standard established by the Wi-Fi Alliance. In addition to the conventional SSID (network name) and WEP key (network key), it also uses a user identification function and encrypting protocol for stronger security.

WPA2 (Wi-Fi Protected Access 2)

This is a new version of the WPA established by the Wi-Fi Alliance, compatible with more secure AES encryption.

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WPA-PSK/WPA2-PSK (Pre-shared Key)

This is a simple authentication system for mutual authentication when a preset character string matches on the wireless LAN access point and client.

WPS (Wi-Fi Protected Setup)

This is a standard drawn up by the Wi-Fi Alliance to ease the task of setting up wireless LAN connections and configuring security. There are two methods: push-button and PIN (Personal Identification Number) code.

Network Names (SSID: Security 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 suitable for temporarily constructing a simplified network.

Media player

iTunes

iTunes is the name of the multimedia player provided by Apple Inc. It enables management and playback of multimedia contents including music and movies. iTunes supports many main file formats including AAC, WAV, and MP3.

Windows Media Player

This is a media player distributed free of charge by Microsoft Corporation. It can play playlists created with Ver.11 or later of Windows Media Player, as well as WMA, DRM WMA, WAV, and other files.

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Others

App Store

App Store is a site that sells application software for such devices as the iPhone or iPod Touch, and is operated by Apple Inc.

Pairing

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.

This unit can store pairing information for a maximum of 8 devices.

Front panel





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Specifications

Audio section

 Analog output 	[PCM]	[DSD]
Channels:	2-channels	2-channels
Playable frequency range:	2 Hz – 96 kHz	2Hz – 100kHz
Playable frequency response:	2 Hz – 96 kHz Sampling frequency: 192 kHz 2 Hz – 20 kHz (PCM sampling frequency: 44.1 kHz)	2 Hz – 50 kHz (–3 dB)
S/N:	110 dB (Audible range)	110 dB (Audible range)
Dynamic range:	100 dB (Audible range)	105 dB (Audible range)
Harmonic distortion:	0.0020% (1 kHz, Audible range)	0.0010% (1 kHz, Audible range)
Output level	2.1 Vrms	1.5 Vrms
H/P output level	100 mW/32 Ω /ohms (variable maximum)	70 mW/32 Ω /ohms (variable maximum)
Digital output Optical:	-21 – -15 dBm	_



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Wireless LAN section	
Network type (wireless LAN standard):	Conforming to IEEE 802.11b Conforming to IEEE 802.11g Conforming to IEEE 802.11n (Wi-Fi® compliant)*1
Security:	WEP 64 bit, WEP 128 bit WPA/WPA2-PSK (AES) WPA/WPA2-PSK (TKIP)
Radio frequency:	2.4 GHz
No. of channels:	1 – 13 ch

*1 The (Wi-Fi[®] CERTIFIED) Logo and the Wi-Fi CERTIFIED On-Product Logo are registered trademarks of the Wi-Fi Alliance.





Playback Settings Tips Appendix
Bluetooth Version 2.1 + EDR (Enhanced Data Rate)
Maximum 2.5 mW (Class 2)
Approx. 10 m in line of sight*2
2.4 GHz band
FHSS (Frequency-Hopping Spread Spectrum)
A2DP (Advanced Audio Distribution Profile) 1.2
AVRCP (Audio Video Remote Control Profile) 1.4
SBC, AAC
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

Power supply voltage/frequency:	AC 230 V 50/60 Hz
Power consumption:	35 W
Power consumption in standby mode:	0.4 W
Power consumption in "Network Control" – "O	n"
mode:	4.0W

For the purpose of improvement, the specifications and design are subject to change without notice.



Remote control unit



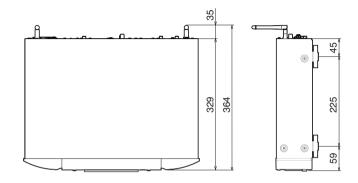


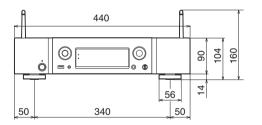


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Dimensions

Unit : mm





Weight : 6.0kg



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Remote control unit







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Remote control







Settings

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Tremolo

http://wss.co.uk/pinknoise/tremolo

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Mersenne Twister

http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/CODES/mt19937ar.c

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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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