



marantz®

Network Audio Player
NA6005

You can print more than one page of a PDF onto a single sheet of paper.

Owner's Manual

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[Remote control
unit](#)

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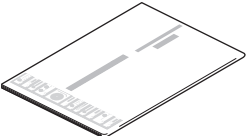
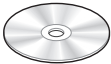
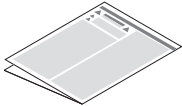
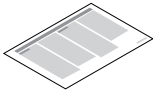
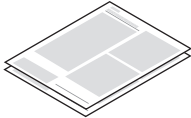



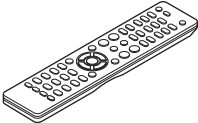

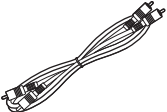
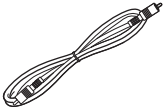

Thank you for purchasing this Marantz product.

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.

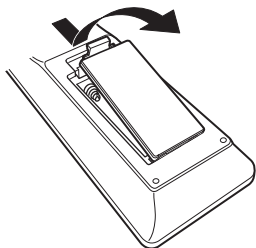
 <p>Quick Start Guide</p>	 <p>Owner's Manual (CD-ROM)</p>	 <p>Safety Instructions</p>	 <p>Notes on radio</p>	 <p>Warranty (for USA/for CANADA)</p>
 <p>Power cord</p>	 <p>FM indoor antenna</p>	 <p>AM loop antenna</p>	 <p>Remote control unit (RC004NA)</p>	 <p>R03/AAA batteries</p>
 <p>Audio cable</p>	 <p>Remote connector cable</p>	 <p>External antennas for Bluetooth/wireless connectivity</p>		



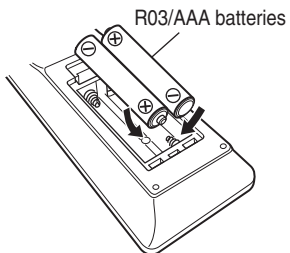
About the remote control

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.

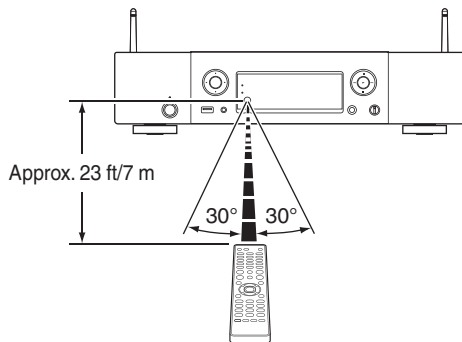
NOTE

- 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.

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.



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.



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®** (🔗 p. 61)

- **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** (🔗 p. 24)

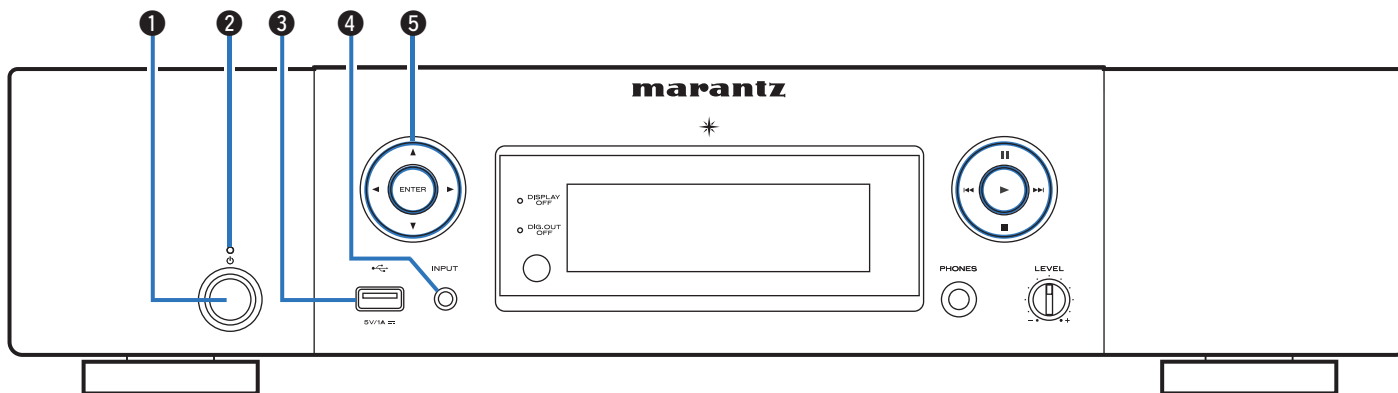


- **Compatible with Marantz “Hi-Fi Remote” app for performing basic operations of the unit with an iPad®, iPhone® or Android smartphone**
- **OLED (Organic Light Emitting Diode) display that can display 3 lines**
- **Equipped with auto standby mode function that reduces power consumption**



Part names and functions

Front panel



❶ Power operation button (⏻)

This turns the power on/off (standby). (📖 p. 35)

❷ 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

❸ USB port

Used to connect iPod or USB memory devices. (📖 p. 24)

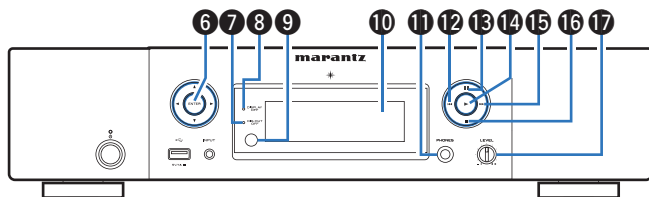
❹ Input source select button (INPUT)

These select the input source. (📖 p. 36)

❺ Cursor buttons (⏪⏩⏴⏵)

These select items.





6 ENTER button

This determines the selection.

7 Digital output off indicator (DIG. OUT OFF)

This indicator lights up when the digital output setting is set to off. (☞ p. 37)

8 DISPLAY OFF indicator

This indicator lights up when the display is off. (☞ p. 37)

9 Remote control sensor

This receives signals from the remote control unit.

10 Display

Various information is displayed here.

11 Headphones jack (PHONES)

Used to connect headphones.

NOTE

To prevent hearing loss, do not raise the volume level excessively when using headphones.

12 Fast-reverse/Reverse-skip button (⏮)

Returns to the start of the currently playing track. Press and hold to fast-reverse the track. (☞ p. 44)

13 Pause button (⏸)

Pauses playback. (☞ p. 44)

14 Play button (▶)

Playback starts. (☞ p. 44)

15 Fast-forward/Forward-skip button (⏭)

Plays the next track. Press and hold to fast-forward the track. (☞ p. 44)

16 Stop button (■)

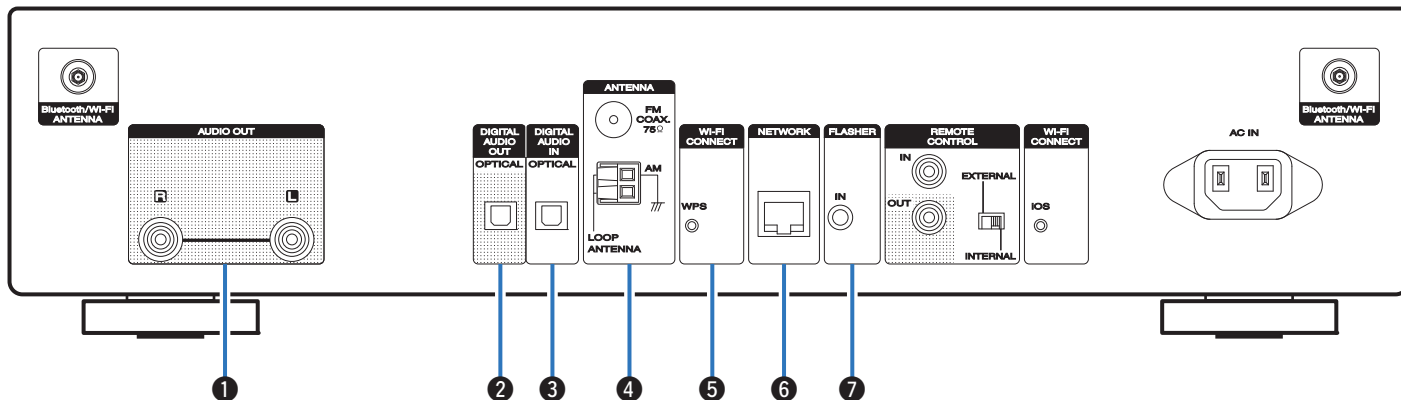
Stops playback. (☞ p. 44)

17 Headphone volume control knob (LEVEL)

Adjusts the headphone volume.



Rear panel



1 AUDIO OUT connectors

Used to connect devices equipped with analog audio inputs connectors or an external amplifier. (☞ p. 21)

2 DIGITAL AUDIO OUT connector

Used to connect an AV receiver or D/A converter that has a digital input connectors. (☞ p. 22)

3 DIGITAL AUDIO IN connector

Used to connect a computer or devices equipped with digital audio output connectors. (☞ p. 23)

4 Antenna terminals (ANTENNA)

Used to connect FM antennas and AM loop antennas. (☞ p. 26)

5 Wi-Fi CONNECT WPS button

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

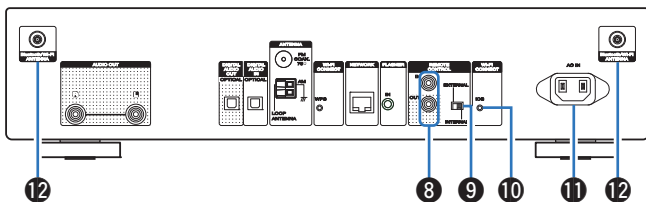
6 NETWORK connector

Used to connect to a LAN cable when connecting to a wired LAN network. (☞ p. 28)

7 FLASHER IN jack

Used to connect a control box, etc. “FLASHER IN jack” (☞ p. 31)





8 REMOTE CONTROL IN/OUT connectors

Used to connect to a Marantz amplifier that is compatible with the remote control function. (☞ p. 32)

9 EXTERNAL/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. (☞ p. 32)

10 Wi-Fi CONNECT iOS button

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

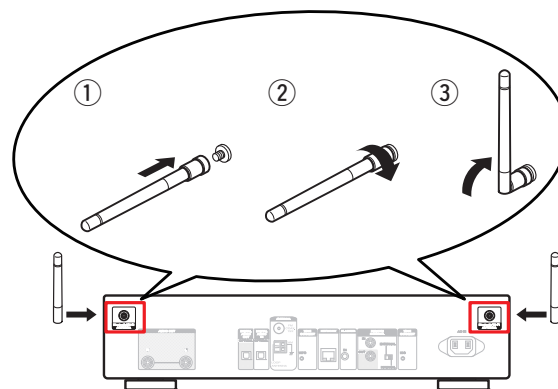
11 AC inlet (AC IN)

Used to connect the power cord. (☞ p. 33)

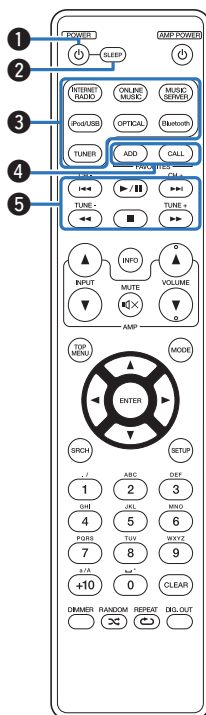
12 Bluetooth/wireless LAN antenna connectors

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. 29)

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



Remote control unit



■ Operating this unit

1 POWER button (⏻)

This turns the power on/off (standby). (☞ p. 35)

2 SLEEP button

This sets the sleep timer. (☞ p. 37)

3 Input source select buttons

These select the input source. (☞ p. 36)

4 FAVORITES ADD / CALL buttons

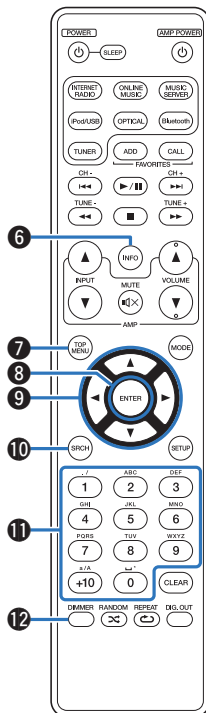
- To add radio stations or files to the favorite list, press ADD button.
- To call up a radio station or file registered in the favorite list, press CALL button. (☞ p. 50)

5 System buttons

These perform playback related operations.

- Skip buttons (⏮, ⏭)
- Play/pause button (▶/⏸)
- Fast-reverse / Fast-forward buttons (⏪, ⏩)
- Stop button (■)
- Channel buttons (CH +, -)
These operate the Favorite function.
- Tuning buttons (TUNE +, -)
These operate the tuner.





6 Information button (INFO)

This switches display items such as the album name and title name in the playback screen. (☞ p. 42)

7 TOP MENU button

To back to the top of the menu.

8 ENTER button

This determines the selection. (☞ p. 38)

9 Cursor buttons (Δ▽◀▶)

These select items. (☞ p. 38)

10 Search button (SRCH)

This displays the search menu. (☞ p. 38)

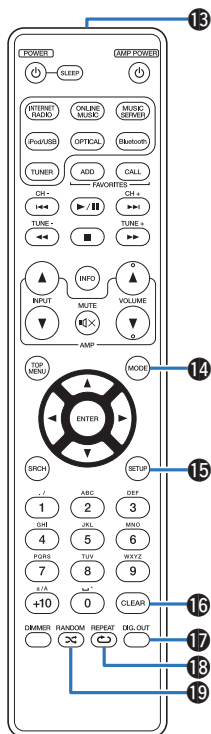
11 Number buttons (0 – 9, +10)

These enter letters or numbers into the unit. (☞ p. 49)

12 DIMMER button

Adjust the display brightness of this unit. (☞ p. 37)





13 Remote control signal transmitter

This transmits signals from the remote control unit. (☞ p. 8)

14 MODE button

This switches the playback mode. (☞ p. 51)

This switches the tuning mode. (☞ p. 48)

15 SETUP button

The setting menu is displayed on the display. (☞ p. 38)

16 CLEAR button

This cancels the settings. (☞ p. 49)

17 Digital audio output switch button (DIG. OUT)

This switches the digital audio output on/off.

(☞ p. 37)

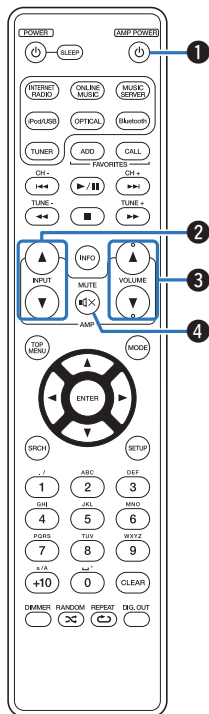
18 REPEAT button (↺)

Switches to the repeat playback. (☞ p. 42)

19 RANDOM button (⌘)

Switches the random playback. (☞ p. 42)





■ Amplifier operations

- 1 AMP POWER button (⏻)**
 This turns the power of the amp connected to this unit on or off.
- 2 Input source select buttons (INPUT ▲▼)**
 This switches the input source of the amp connected to this unit.
 (➡ p. 36)
- 3 VOLUME buttons (▲▼)**
 This adjusts the volume of the amp connected to this unit.
- 4 MUTE button (🔇)**
 This mutes the sound of the amp connected to this unit.



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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.

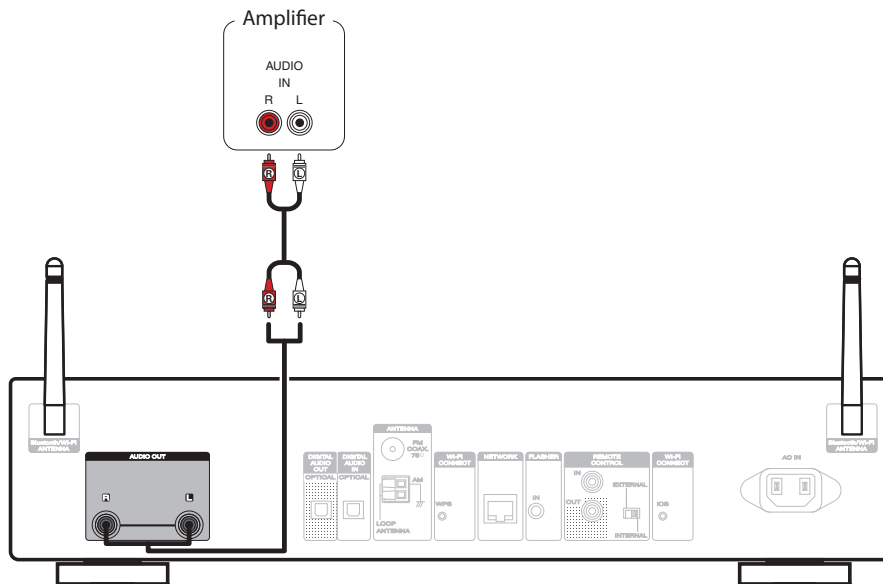
■ Cables used for connections

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

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

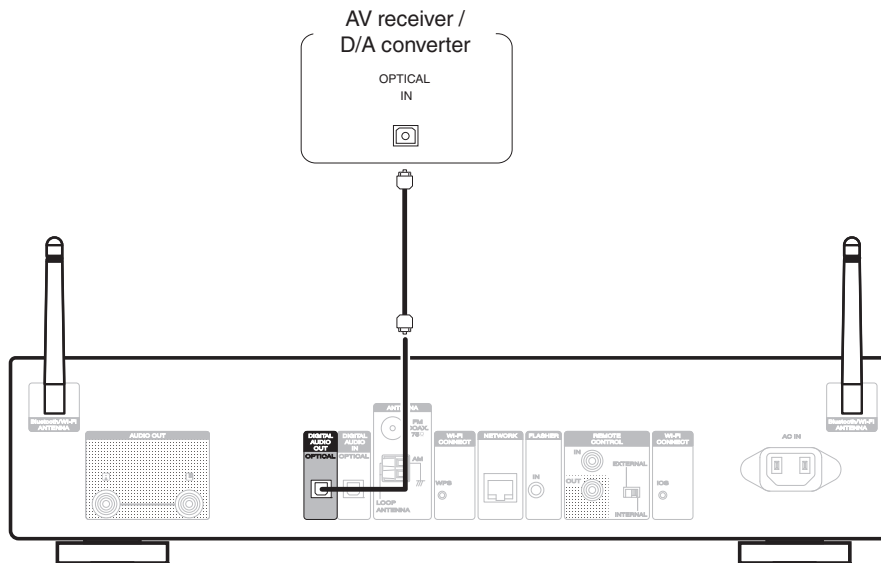


Connecting an amplifier



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.



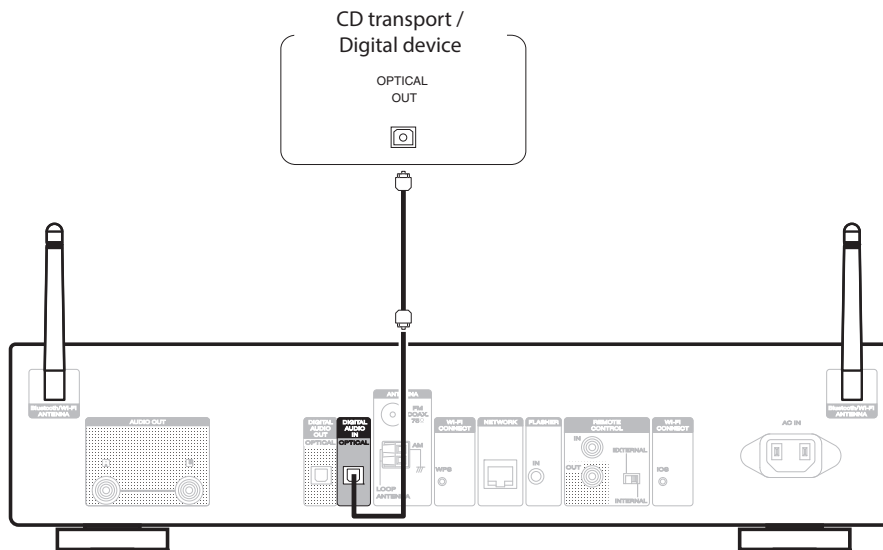
Use the Digital Out button to set the digital audio output on or off. (☞ p. 37)

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



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. (📖 p. 81)



NOTE

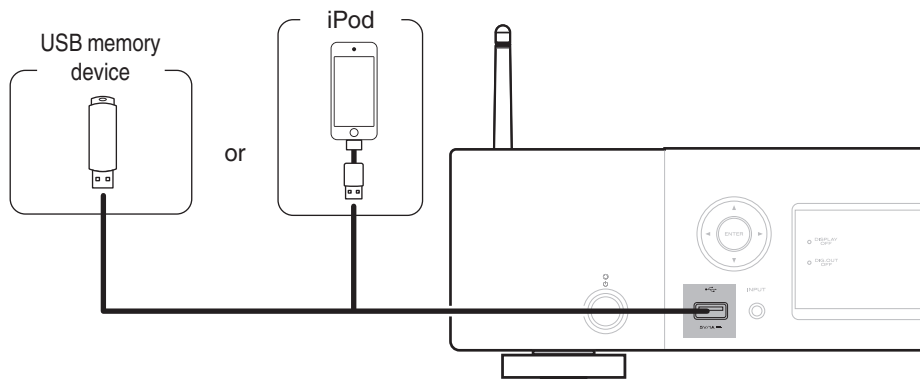
- Linear PCM signals with a sampling frequency of 32 kHz, 44.1 kHz, 48 kHz, 64 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, or 192 kHz can be input into this device.
- Do not input non-PCM signals, such as DTS and AAC. This causes noise and could damage the speakers.



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” (🔍 p. 51) or “Playing a USB memory device” (🔍 p. 55).



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

NOTE

- USB memory devices will not work via a USB hub.
- 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.



■ Supported iPod/iPhone models

• iPod classic



iPod classic
80GB



iPod classic
160GB (2007)



iPod classic
160GB (2009)

• iPod nano



iPod nano
3rd generation
(video)
4GB 8GB



iPod nano
4th generation (video)
8GB 16GB



iPod nano
5th generation (video camera)
8GB 16GB



iPod nano
6th generation
8GB 16GB



iPod nano
7th generation
16GB

• iPod touch



iPod touch
2nd generation
8GB 16GB 32GB



iPod touch
3rd generation
32GB 64GB



iPod touch
4th generation
8GB 16GB 32GB 64GB



iPod touch
5th generation
16GB 32GB 64GB

• iPhone



iPhone 3G
8GB 16GB



iPhone 3GS
16GB 32GB



iPhone 4
8GB 16GB 32GB



iPhone 4S
16GB 32GB 64GB



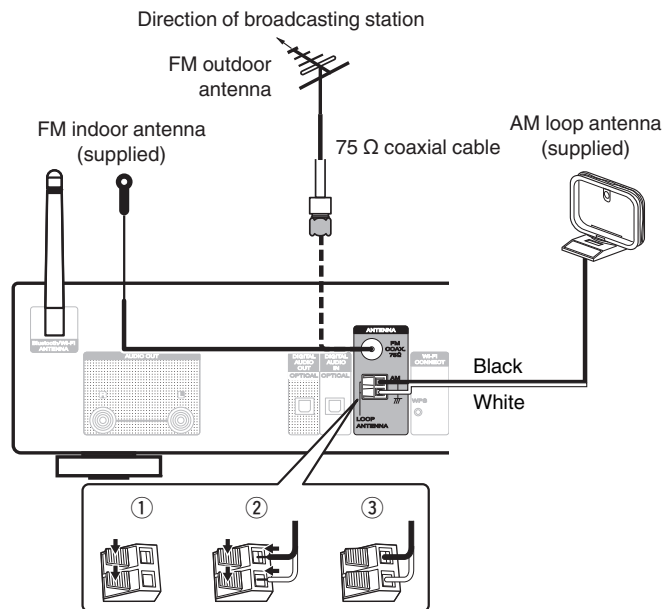
iPhone 5
iPhone 5c iPhone 5s
16GB 32GB 64GB



Connecting an FM/AM antenna

After connecting the antenna and receiving a broadcast signal, fix the antenna with tape in a position where the noise level becomes minimal. “Listening to FM/AM broadcasts” (🔗 p. 47)

- When listening to radio stations, always make analog connections. “Connecting an amplifier” (🔗 p. 21)



NOTE

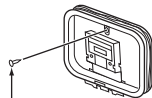
- Do not connect two FM antennas simultaneously.
- If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit.
- Do not disconnect the AM loop antenna even when an AM outdoor antenna is connected.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.



■ Using the AM loop antenna

Suspending on a wall

Suspend directly on a wall without assembling.

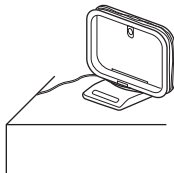


Nail, tack, etc.

Standing alone

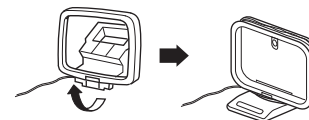
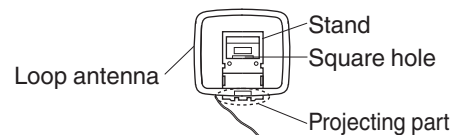
Use the procedure shown above to assemble.

When assembling, refer to “AM loop antenna assembly”.



■ AM loop antenna assembly

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



Connecting to a home network (LAN)

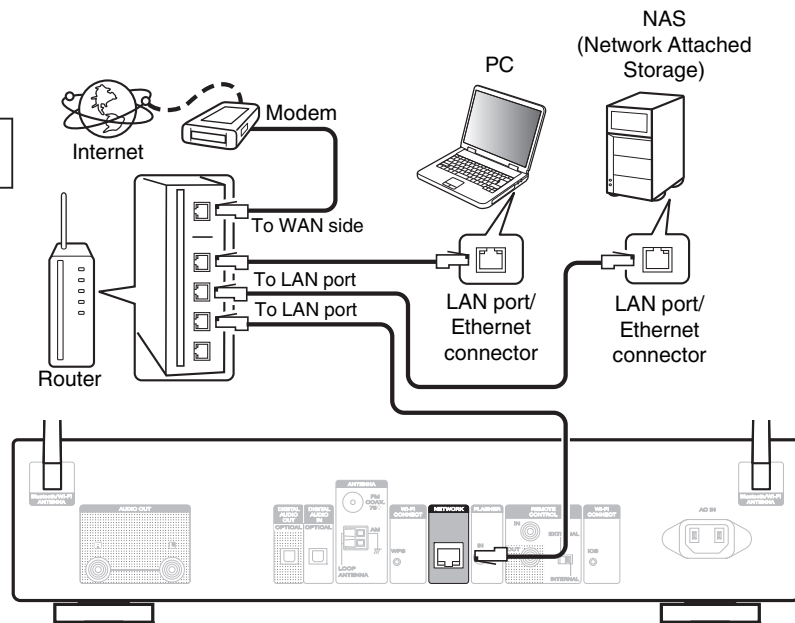
This unit can connect to a network using a wired LAN or wireless LAN. You can connect this unit to your home network (LAN) to enable various types of playback and operations as described below.

- Playback of network audio such as Internet Radio and from your 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.

Wired LAN

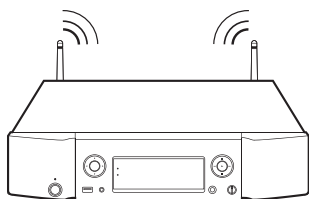
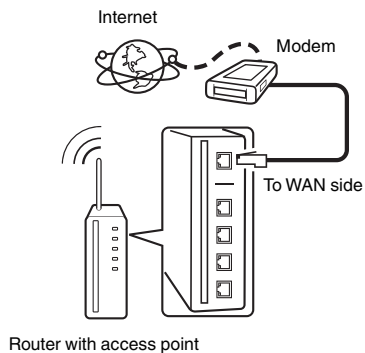
To make connections via wired LAN, use a LAN cable to connect the router to this unit as shown in the figure below.



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. 94) on how to connect to a wireless LAN router.



- 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”. (🔧 p. 92)
- 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”.)



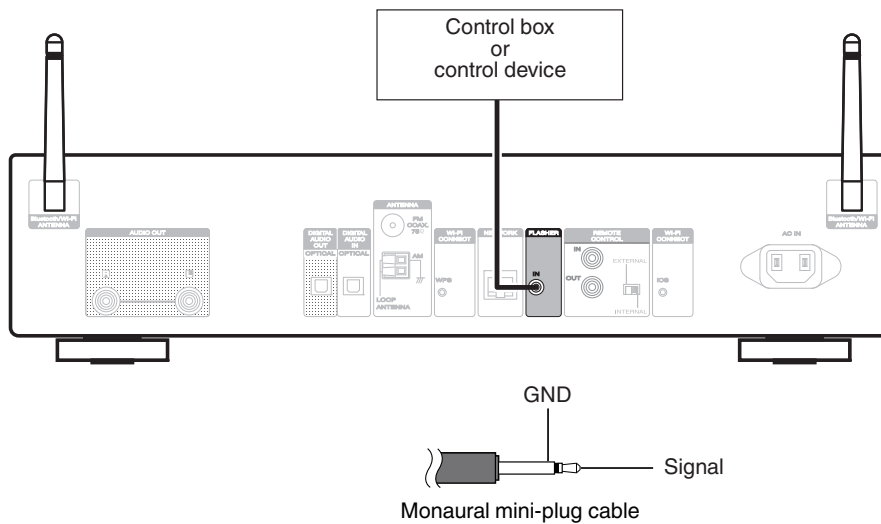
NOTE

- 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 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.

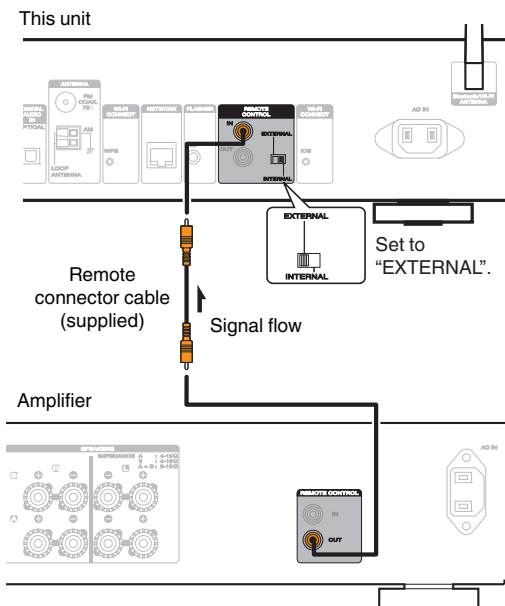
Setting

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.

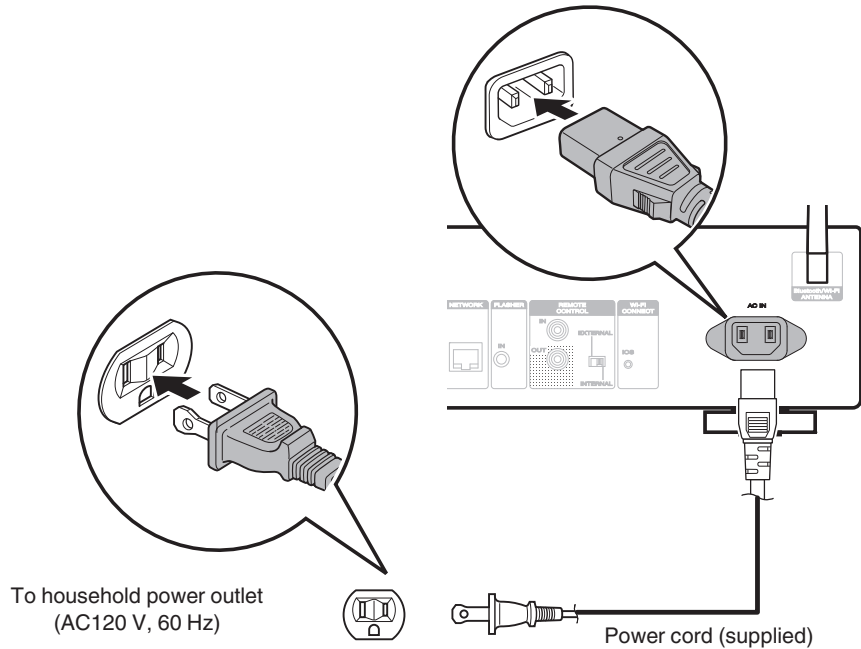


To use this unit by itself without connecting an amplifier, turn the switch to “INTERNAL”.



Connecting the power cord

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

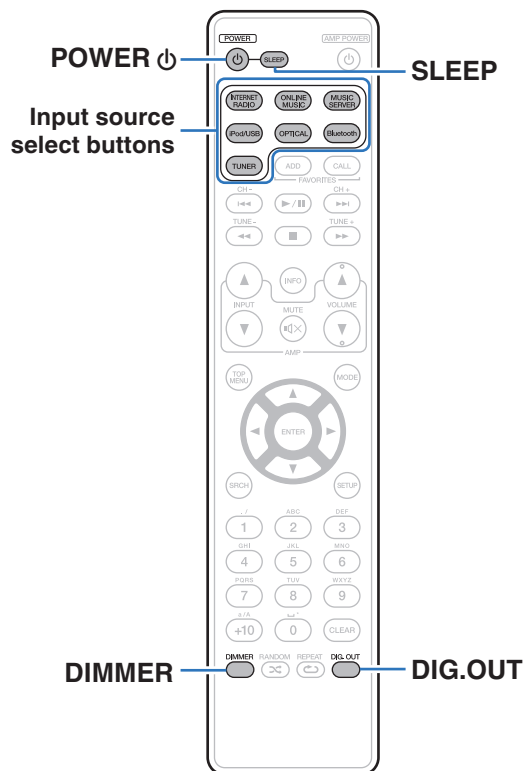


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Basic operation




Turning the power on

1 Press POWER to turn on power to the unit.

The power indicator turns off.



- You can also switch the power to standby by pressing  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

1 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

1 Press the input source select button to be played back.

- The desired input source can be selected directly.



Press TUNER again to switch between FM/AM.

■ Selecting the input source using the main unit

1 Press INPUT.

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



Switching the display's brightness

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

1 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.

1 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.

1 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".

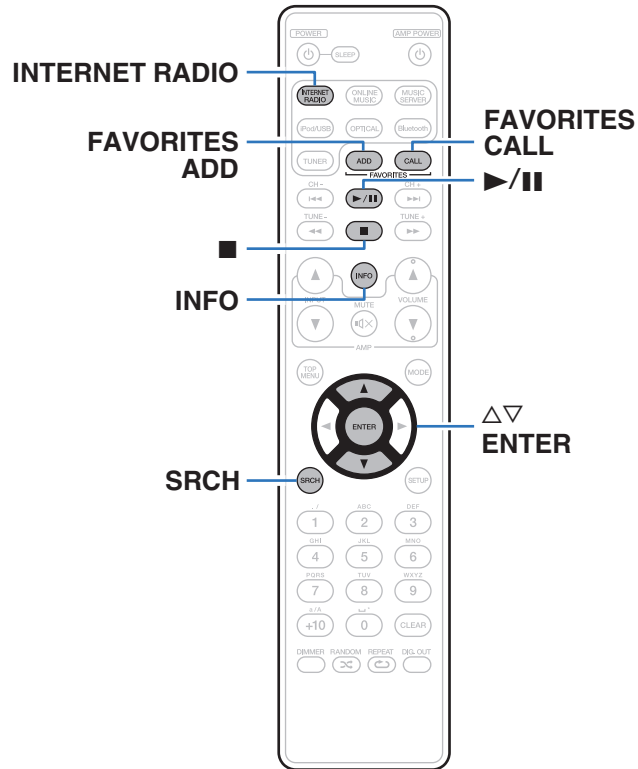
The  indicator on the display turns off.



- 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.



Listening to Internet Radio



- Internet Radio refers to radio broadcasts distributed over the Internet. Internet Radio stations from around the world can be received.
- The broadcast station types and specifications supported by this unit for playback are as follows.

- WMA
- MP3
- MPEG-4 AAC



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.

1 Prepare for playback.

- Check the network environment, then turn on this unit's power. (👉 p. 28)

2 Press INTERNET RADIO.

3 Use $\Delta\nabla$ to select the you want to play, then press ENTER.

***** (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" (👉 p. 41).
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" (👉 p. 85).



4 Use Δ ∇ to select the station, then press ENTER.

Playback starts once buffering reaches "100%".

Operation buttons	Function
▶/ 	Playback / Stop
■	Stop
FAVORITES CALL	Call from the Favorite list
FAVORITES ADD	Add to the Favorite list
SRCH	Character search <ul style="list-style-type: none"> If the list is not in alphabetical order, you may not be able to perform a character search.
Δ ∇ \triangleleft \triangleright	Select the item
ENTER	Enter the selected item
INFO	Switching the file type/ bit rate and radio station name etc.



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.



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.

- 1 Check the MAC address of this unit.**
 - The MAC address is necessary when you create an account for vTuner.
- 2 Use your PC to access the vTuner website (<http://www.radiomarantz.com>).**
- 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.

7 Enter the name of the favorite group, then click “Go”.

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

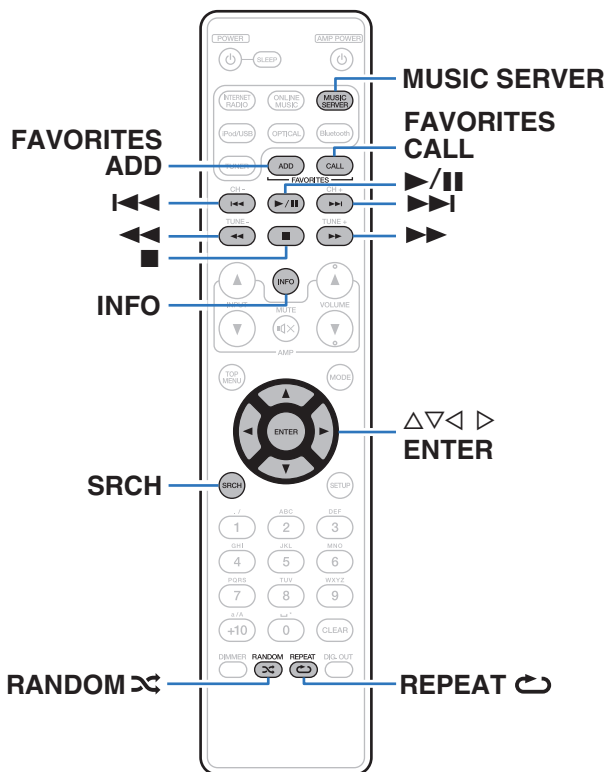
- Internet Radio stations added to favorites in vTuner can be played from “radiomarantz.com” (🔗 p. 39) with this unit.

■ Files that can be played back

See “Playing back Internet Radio” (🔗 p. 116).



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
 - 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)

- 1 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

- 1 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.



Playing back files stored on a PC and NAS

Use this procedure to play music files or playlists.

1 Prepare for playback.

- ① Check the network environment, then turn on this unit's power. "Connecting to a home network (LAN)" (👉 p. 28)
- ② Prepare the computer (👉 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
	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
	Character search
SRCH	<ul style="list-style-type: none"> If the list is not in alphabetical order, you may not be able to perform a character search.
	Random playback
RANDOM	Random playback
	Repeat playback
REPEAT	<ul style="list-style-type: none"> Switching between Single-track repeat and All-track repeat.
$\Delta \nabla \triangleleft \triangleright$	Select the item
ENTER	Enter the selected item
INFO	Switching the file type/bit rate, artist name, and album title.



Files that can be played back

See “Playing back files stored on a PC and NAS” ( p. 117).



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

1 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.

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




Performing random playback

1 Press **RANDOM** .

The  indicator on the display is lighted and all tracks in the current playback folder are randomly played back.

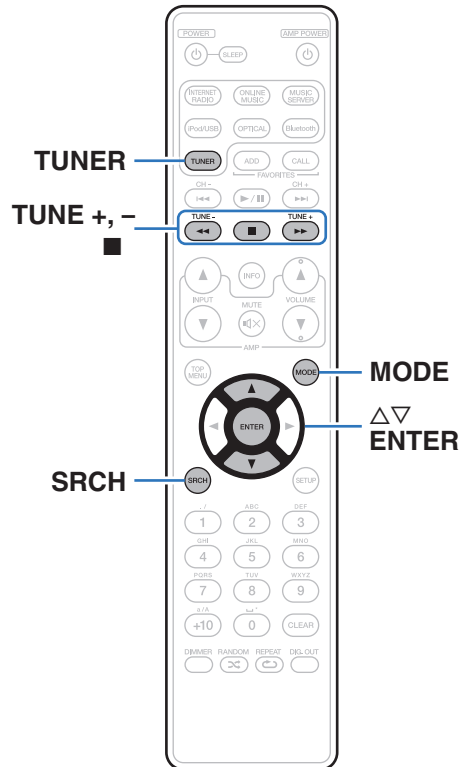
■ **Canceling random playback**

Press **RANDOM** .

The  indicator on the display turns off.



Listening to FM/AM broadcasts



For details about how to connect the antenna, see (🔗 p. 26).

Listening to FM/AM broadcasts

1 Press TUNER to select the reception band.

FM: When listening to an FM broadcast.

AM: When listening to an AM broadcast.

2 Press TUNE + or TUNE - to select the station you want listen to.

When a station is received, the  indicator lights.



Changing the FM tuning mode (Tune Mode)

You can change the mode for tuning into FM broadcasts. If you cannot tune in automatically with AUTO mode (AUTO), then change the mode to manual mode (No indication) and tune in manually.

1 Press MODE during FM reception.

Auto (AUTO): Automatically search for and tune to a receivable radio station.

Manual (No indication): Manually change the frequency one step at a time each time the button is pressed.

Automatically presetting FM stations (Auto Preset)

This unit can be preset to favorite list with a total of 50. For details on how to use Favorite, see “Favorite function” (📖 p. 49).

1 Press SEARCH during FM reception.

“Auto Preset” menu appears.

2 Use Δ / ∇ to select “Start” and then press ENTER.

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

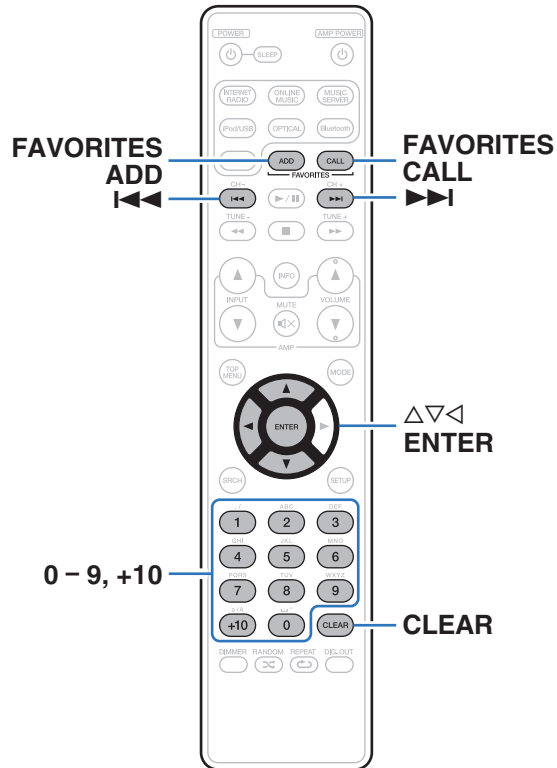
- When presetting is completed, “Complete!!” is displayed.



- To stop auto tuning, press ■.
- Broadcast stations whose antenna signals are weak cannot be preset automatically. If you wish to preset such stations, tune them in manually.
- When all 50 items in the favorites list are registered, no additional registrations can be made.
- AM stations cannot be automatically preset.



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

- 1 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 completed.

Calling stations or files from the favorites list

- 1 Press **FAVORITES CALL**.
- 2 Press \lll or $\Delta\nabla$ to select the station or file that you want to call, and press **ENTER**.
The respective function starts up and playback starts.



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

To switch between registered stations and files during playback

- 1 Press \lll or $\Delta\nabla$.

Deleting stations or files from the favorite list

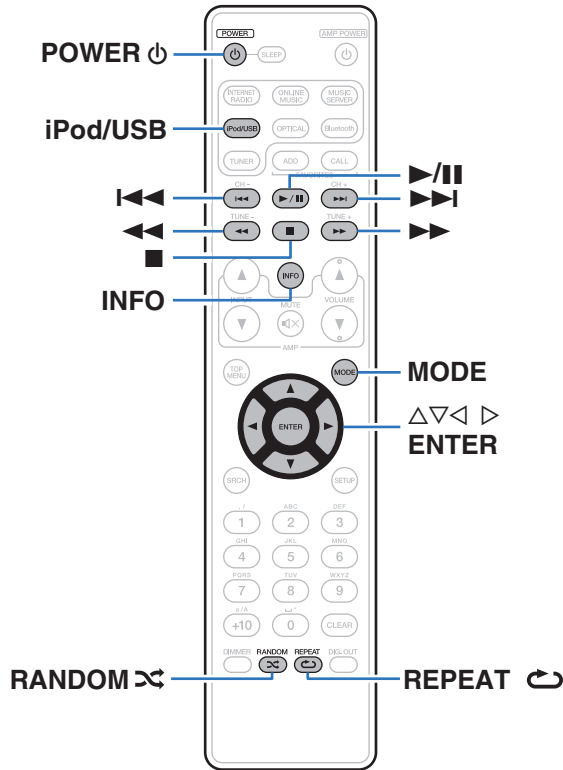
- 1 Press **FAVORITES CALL**.
- 2 Use $\Delta\nabla$ to select the station or file that you want to delete, and press **CLEAR**.
- 3 When the prompt “Delete?” appears, press **ENTER**.
“Deleted” is displayed and the deletion is completed.



Press < to cancel the operation.



Playing an iPod



- You can use the USB cable provided with the iPod to connect the iPod with the unit's USB port and enjoy music stored on the iPod.
- For information on the iPod models that can be played back with this unit, see "Supported iPod/iPhone models" (p. 25).



Listening to music on an iPod

- 1 Connect the iPod to the USB port.** (👉 p. 24)
- 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.**



- 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)” (👉 p. 53).
- You can also listen to iPod music using “AirPlay function” (👉 p. 61).

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.



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".

- 1 Press **MODE** and display "Remote iPod".
- 2 Use $\Delta \nabla$ to select the file to be played, then press **ENTER**.

Playback starts.

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

* Only the sound is played.

Operation buttons	Function
	Playback / Pause
	Stop
	Skip to previous track / Skip to next track
	(Press and hold) Fast-reverse / Fast-forward
	Random playback
	Repeat playback <ul style="list-style-type: none"> • 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.



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 standby indicator lights turns orange.

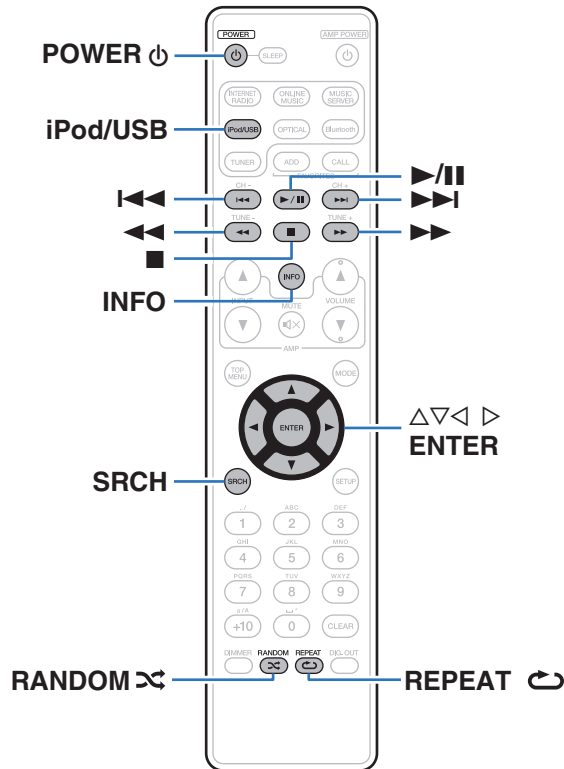
When the iPod/iPhone is fully charged, the unit automatically stops supplying power for charging and enters normal power standby mode, and the standby indicator lights turns red.



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




Playing a USB memory device



- Playing back music stored on a USB memory device.
- Only USB memory devices conforming to mass storage class and MTP (Media Transfer Protocol) standards can be played on this unit.
- This unit is compatible with USB memory devices in “FAT16” or “FAT32” format.
- This unit can play back the following files.
 - WMA
 - MP3
 - WAV
 - AAC
 - FLAC
 - ALAC
 - AIFF
 - DSD



Playing files stored on USB memory devices

- 1** Connect the USB memory device to the USB port.
( p. 24)
- 2** Press iPod/USB to switch the input source to “iPod/USB”.
- 3** Use $\Delta \nabla$ to select the file to be played, then press ENTER.
Playback starts.

Operation buttons	Function
$\blacktriangleright / \parallel$	Playback / Pause
■	Stop
$\blacktriangleleft \blacktriangleright$	Skip to previous track / Skip to next track
$\blacktriangleleft \blacktriangleright$	(Press and hold) Fast-reverse / Fast-forward
RANDOM $\times 2$	Random playback
REPEAT C	Repeat playback <ul style="list-style-type: none"> • Switching between Single-track repeat and All-track repeat.
SRCH	Character search <ul style="list-style-type: none"> • If the list is not in alphabetical order, you may not be able to perform a character search.
$\Delta \nabla \blacktriangleleft \blacktriangleright$	Select the item
ENTER	Enter the selected item
INFO	Switching the artist name and album title.

NOTE

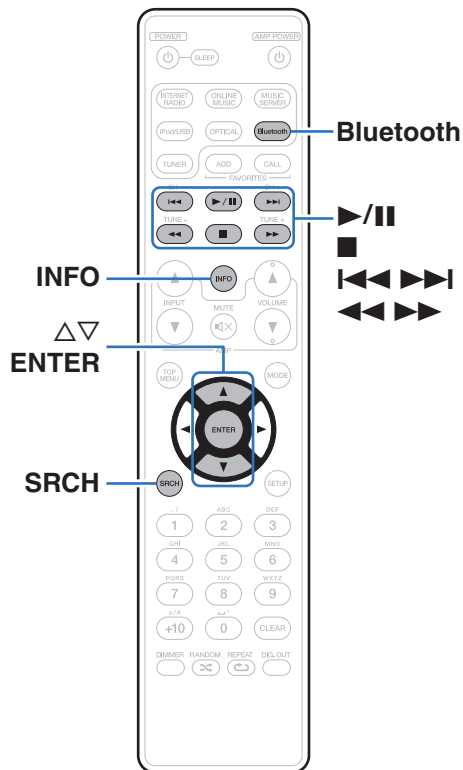
Note that Marantz will accept no responsibility whatsoever for any problems arising with the data on a USB memory device when using this unit in conjunction with the USB memory device.

■ Files that can be played back

See “Playing back a USB memory devices” ( p. 114).



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 32.8 ft/10 m.

NOTE

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.

1 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 3.3 ft/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.



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
	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.



Pairing with the Pairing Mode

Pair a Bluetooth device with this unit.

1 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.

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.

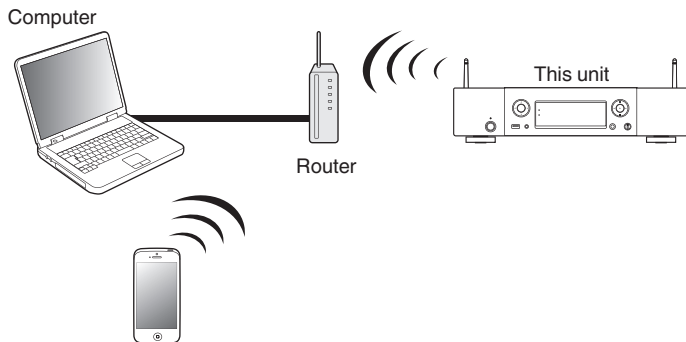


- When a number appears on the display of this unit, check that it is the same number as that shown on the screen of the Bluetooth device and then select “Pair” for both the Bluetooth device and the unit.
- Enter “0000” when the password is requested on the screen of the Bluetooth device.



AirPlay function

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

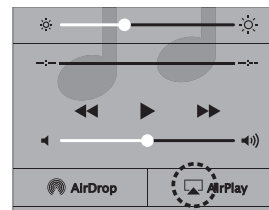


- You can stop AirPlay playback by pressing < or choosing other input source.
- To see artist name or album name together, press INFO.
- For information about how to use iTunes, also see the Help for iTunes.
- The screen may differ depending on the OS and software versions.

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.

- 1 Connect your iPhone, iPod touch or iPad Wi-Fi to the same network as this unit.**
 - For details, see your device’s manual.
- 2 Play the song on your iPhone, iPod touch or iPad.**
 - ☑ is displayed on the iPhone, iPod touch or iPad screen.
- 3 Tap the AirPlay icon ☑.**



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



Playing iTunes music with this unit

- 1 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. (👉 p. 92)

NOTE

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


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



- 4 Choose a song and click play in iTunes.**
The music will stream to this unit.

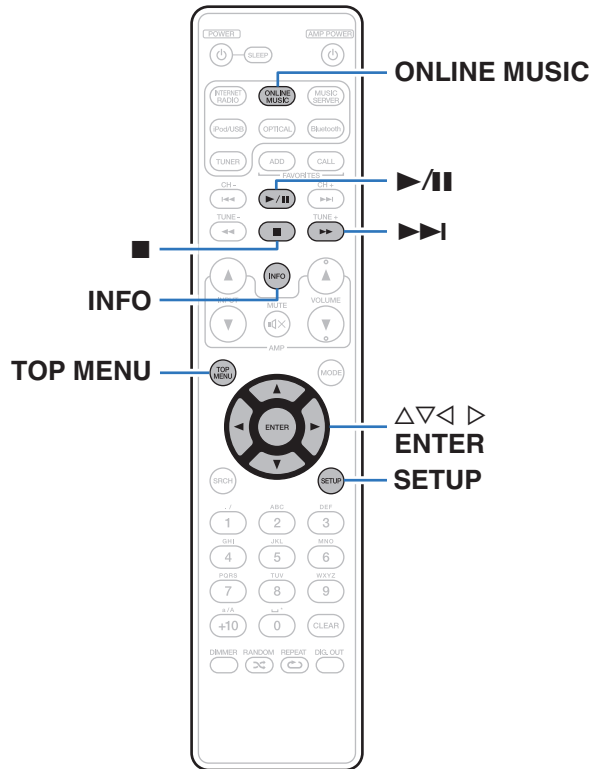
Selecting multiple speakers (devices)

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

- 1 Click the AirPlay icon  and select “Multiple”.**
- 2 Check the speakers you want to use.**



Listening to Pandora®



Pandora is an automated music recommendation and Internet Radio service created by the Music Genome Project.

To listen to Pandora you will need a free Pandora account.

If you do not have a Pandora account, you can create one at www.pandora.com or from the Pandora smartphone application.

Playback of Pandora in this unit requires the Pandora account to be linked to the unit. Therefore, access <http://www.pandora.com/marantz> from your personal computer and perform the linkage.



Connecting to Pandora

1 Prepare for playback.

- Check the network environment, then turn on this unit's power. ("Connecting to a home network (LAN)" (🔍 p. 28))

2 Press ONLINE MUSIC to switch the input source to "Pandora".

3 If you have a Pandora account, use $\Delta\nabla$ to select "I have a Pandora account", then press ENTER.

- If you do not have a Pandora account, to select "I am new to Pandora", then press ENTER. The URL of Pandora and activation code are displayed. Access the Pandora web page from your PC and register the displayed activation code and account information. Then press ENTER.

4 Input "Email address" and "Password".

- For character input, see "Inputting characters" (🔍 p. 85).
- Press TOP MENU to cancel the input.

5 After inputting the "Email address" and "Password", select "Login", then press ENTER.

If the "Email address" and "Password" match, the top menu for Pandora is displayed.



Creating a new station

You can create up to 100 radio stations.

- 1 Use $\Delta \nabla$ to select “New Station”, then press ENTER.**
- 2 Input a track or artist name, then press ENTER.**
 - For character input, see “Inputting characters” (👉 p. 85).
- 3 Use $\Delta \nabla$ to select “Search by Artist” or “Search by Track”, then press ENTER.**

You can search and display a list by track or artist.
- 4 Use $\Delta \nabla$, select a file from the list, press ENTER.**

New station is created.



Your new station will play music with similar qualities to the artist or track you entered.

Operation buttons	Function
$\Delta \nabla \triangleleft \triangleright$	Cursor operation
ENTER	Enter
SETUP	SETUP
▶/ 	Playback / Pause
▶▶ 	Auto search (cue)
■	Stop
INFO	Switching the station name, artist name and album name.



Listening to an existing station

- 1 Use Δ / ∇ and select the radio station that you want to listen to, then press ENTER.



You can skip up to 6 tracks that are being played back within 1 hour.

Listening to created radio stations at random

- 1 Use Δ / ∇ to select “Shuffle”, then press ENTER.
Created radio stations are selected at random, and tracks are streamed.





Giving feedback and managing stations

You can personalize your stations by providing feedback.

1 Press **▷** while a track is playing.

The Pandora menu screen is displayed.

I like this track :	Press when you like the track that is being played. Display the  (Thumbs up) icon.
I don't like this track :	Press when you don't like the track that is being played. Delete that track from the radio station. Display the  (Thumbs down) icon.
Create station :	Creates a station for the track or artist being played.
Bookmark this track :	Bookmarks the artist currently being played. You can check on a computer or iPhone etc. For details, see the Pandora web page.
Delete this station :	Press when you want to delete the station that is being played.

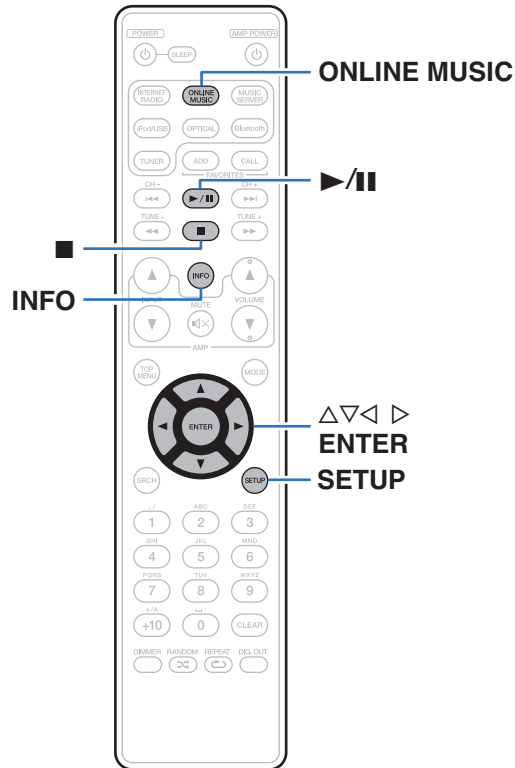
Sign Out

Disassociate this unit from your Pandora account.

- 1 Use **Δ∇** to select “Sign Out”, then press **ENTER**.
- 2 Use **Δ∇** to select “Yes”, then press **ENTER**.



Listening to SiriusXM Internet Radio



You can access SiriusXM to enjoy access to a wide range of unique content.

An All Access package lets you listen to SiriusXM on your computer, smartphone, tablet or Lynx Portable.

For details, see the SiriusXM homepage.

<http://www.siriusxm.com>



Listening to SiriusXM Internet Radio

Over 155 channels commercial-free music, plus play-by-play sports, exclusive talk, comedy and entertainment.

1 Prepare for playback.

- ① Check the network environment, then turn on this unit's power. ("Connecting to a home network (LAN)" (☞ p. 28))
- ② Access the following website from your PC and obtain a SiriusXM account.
<http://www.siriusxm.com>
 - If you already have SiriusXM Internet Radio credentials, select Sign in in step 4 and enter your SiriusXM username and password. If you need to setup a SiriusXM account or Internet Radio credentials, visit www.siriusxm.com/care

2 Press ONLINE MUSIC to switch the input source to "SiriusXM".

3 Select "Sign in" and then press ENTER.

4 Input "Username" and "Password".

- For character input, see "Inputting characters" (☞ p. 85).

5 Select the "Sign in", then press ENTER.

The top menu of SiriusXM is displayed.

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

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

The selected file is displayed.

Operation buttons	Function
$\Delta \nabla \triangleleft \triangleright$	Cursor operation
ENTER	Enter
SETUP	SETUP
$\blacktriangleright \parallel$	Playback
■	Stop
INFO	Switching the artist name, station name and file type.



Sign Out

Disassociate this unit from your SiriusXM account.

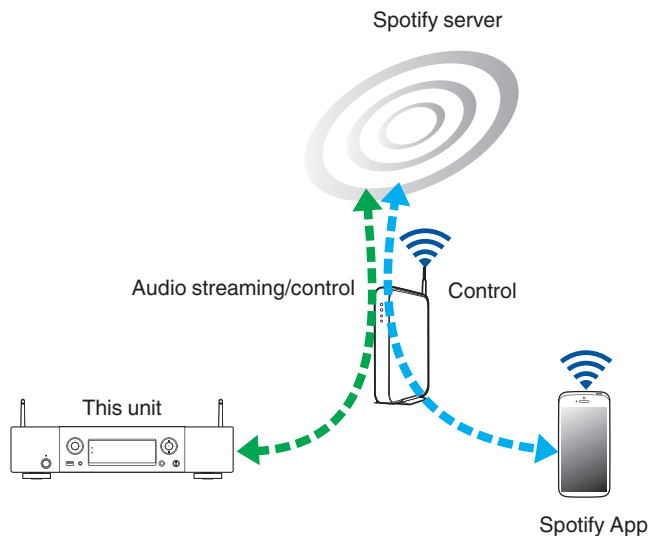
- 1** Use Δ / ∇ to select “Sign out”, then press ENTER.
- 2** Use Δ / ∇ to select “OK”, then press ENTER.



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 www.spotify.com/connect



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.

- 1** 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 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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • Computer • NAS (Network Attached Storage) 	Stores music files. Music files stored on these devices are played back with DMC.
DMR (Digital Media Renderer)	<ul style="list-style-type: none"> • 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. 117).



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. 43).

■ 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.



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)" (🔍 p. 28) and "Network" (🔍 p. 92).



■ 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.

1 Turn on this unit.

- Make sure that this unit is connected to the network.


2 Display the music file playback screen on DMC.

- 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".

4 Start playing back a music file on DMC.

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



Press <1 to exit Remote Play mode.

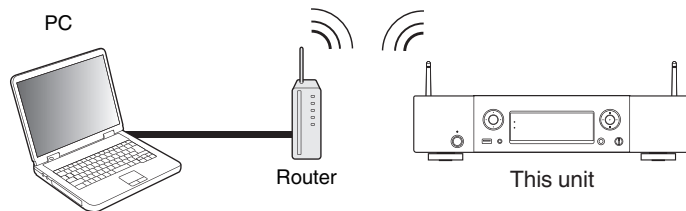
NOTE

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



Web control function

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



- This unit and the PC need to be connected to the network properly in order to use the web control function. (☞ p. 28)
- 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

- 1 Switch the “Network Control” setting to “On”.
(☞ p. 92)
- 2 Check the IP address of this unit with “Network Information”.
(☞ p. 92)



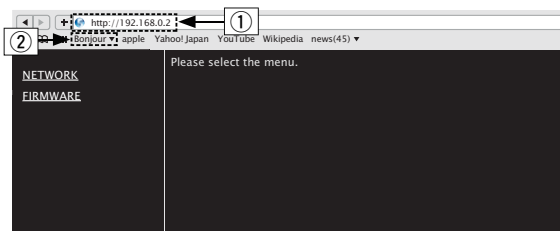
Checking the IP address.

- 3 Start up the web browser.



4 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".

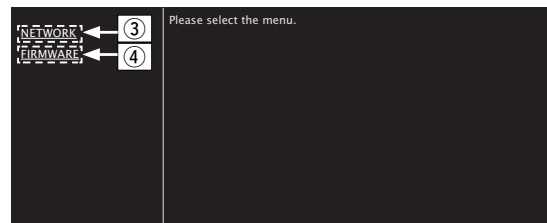


- ① Entering the IP address.
- ② If you are using the Safari web browser, you can select "Bonjour" and directly access the unit's web control screen from the overview section.



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" (☞ p. 92) 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.

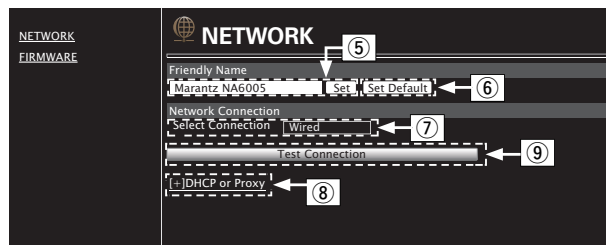


- ③ Click when you setup network settings. (☞ [Example 1])
- ④ Click when you update firmware. (☞ p. 79)



6 Operate.

[Example 1] Network Setting 1



❑ 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. (☞ p. 85)

❑ Network connection settings

- ⑦ Click to change the network connection method. If you select “Wi-Fi”, a new item will appear on-screen. (☞ [Example 2])
- ⑧ Click to change DHCP/proxy settings. (☞ [Example 2])
- ⑨ Click to connect using the newly applied settings.



7 Operate.

[Example 2] Network Setting 2

NETWORK
FIRMWARE

NETWORK

Friendly Name
Marantz NA6005

Network Connection
Select Connection

Wi-Fi Setup
Manual

S SID ← ⑩

Security

Security Key

Default Key

DHCP or Proxy

DHCP ON OFF

IP Address

Subnet Mask

Gateway

Primary DNS ← ⑪

Secondary DNS

Proxy ON OFF

Address Or Name Address Name

Address

Port

❑ Network connection settings

- ⑩ **[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.
- ⑪ **[Example 2]** - Displayed when “DHCP” or “Proxy” is selected in ⑧. When changing DHCP/proxy settings, input or select for each item.



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



■ Update on web screen

“Web control function” (☞ p. 75) 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.

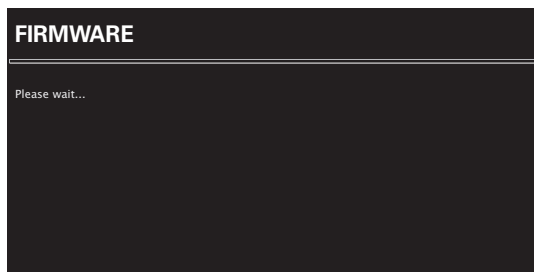
1 Click ④ from step 5 for the “Web control function” (☞ p. 75).

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.

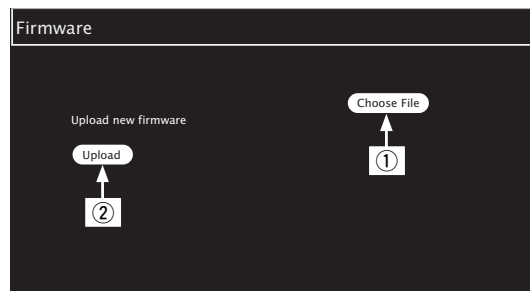
[The web display]



[The unit's screen display]

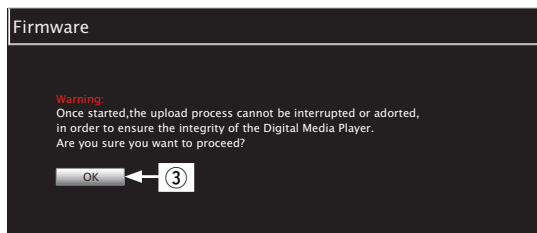


2 When the following screen is displayed by the PC, click the “Choose File” (①) button, select the update file, and click the “Upload” (②) button.



3 Click “OK” (3).

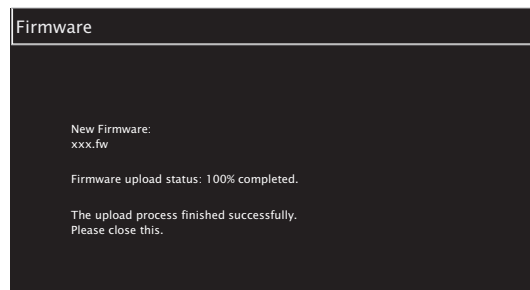
Updating will begin.



NOTE

Do not operate the unit while updating is in progress.

4 When the following screen is displayed, updating is complete.



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)

1 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.



(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” (📖 p. 115).

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
Audio Out	You can set whether to "Fixed" or "Variable" the analog audio output level.	87
Volume Limit	This sets the maximum analog audio output level that can be used when the analog audio output setting is set to variable.	87
Language	Sets the language for display the menu.	88
Auto-Standby	Sets the unit power to standby when the unit is not in use.	88
Usage Data	Selects whether or not to send anonymous usage data to Marantz.	89
Firmware	Set whether or not to check for firmware update, update the firmware, and display update and upgrade notifications.	89
Update	Update the firmware of this unit.	89
Notifications	Set the Update, Upgrade and Alerts notification on/off.	90
Add New Feature	Display new features that can be downloaded to this unit and perform an upgrade.	90

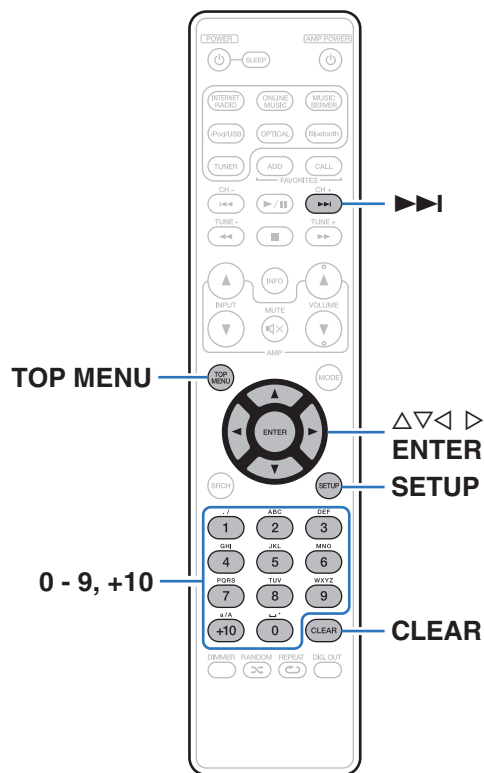


■ Network

Setting items	Description	Page
Network Information	Displays various information about the network.	92
Network Control	Performs the ON/OFF settings for the network function when in standby mode.	92
Friendly Name	Edits a name displayed on the Internet.	93
Pandora Display	Disables the display of Pandora on the menu.	92
SiriusXM Display	Disables the display of SiriusXM on the menu.	93
Settings	Performs the settings for a wired or wireless LAN.	94
Wired Setup	Performs the settings for a wired LAN.	94
DHCP (On) or DHCP (Off)	Performs the DHCP setting.	94
IP Address *	Performs the IP address setting.	94
Subnet Mask *	Performs the subnet mask setting.	94
Gateway *	Performs the gateway setting.	94
Primary DNS *	Performs the primary DNS setting.	94
Secondary DNS *	Performs the Secondary DNS setting.	94
Proxy	Performs the proxy setting.	95
Test Connection	Performs the wired LAN connection.	–
Wi-Fi Setup Method	Performs the wireless LAN connection setting.	95
Auto-Scan	Selects and sets the wireless connections from the access point list.	96
Share Wi-Fi setting from an iOS device	Sets the wireless connection using an iOS device. (iOS version 7 or later)	96
WPS (Wi-Fi Protected Setup)	Sets the wireless connection using WPS (Wi-Fi Protected Setup).	96
Web Browser Setup	Sets the wireless connection using web browser.	97
Manual	Sets the wireless connection manually.	99

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





Menu operation

- 1 Press SETUP.**
The menu is displayed on the display.
- 2 Use Δ / ∇ to select the menu to be set or operated, then press ENTER.**
- 3 Use Δ / ∇ to change to desired setting.**
- 4 Press ENTER to enter the setting.**
 - To return to the previous item, press \triangleleft .
 - Exiting the Menu, press SETUP while the menu is displayed. The display returns to the standard display.
 - To back to the top of the menu, during menu operation, press TOP MENU.



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
Using the number buttons	<ul style="list-style-type: none"> Operating with the remote control. Multiple characters are assigned to a button, and each time the button is pressed, a character is switched.
Using the cursor buttons	<ul style="list-style-type: none"> Operating with the remote control or the main unit. Use Δ ∇ \triangleleft \triangleright 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



■ Using the number buttons

- 1 Display the screen for inputting characters.
- 2 Use <|> to move the cursor to the character that you wish to change.
- 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.

1 . /)	1 . @ - _ / :	6 MNO	m n o M N O 6
2 ABC	a b c A B C 2	7 PQRS	p q r s P Q R S 7
3 DEF	d e f D E F 3	8 TUV	t u v T U V 8
4 GHI	g h i G H I 4	9 WXYZ	w x y z W X Y Z 9
5 JKL	j k l J K L 5	0 _	0 (Space) ! " # \$ % & ' () * + , ; < = > ? [\] ^ _ { } ~

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

■ Using the cursor buttons

- 1 Display the screen for inputting characters.
- 2 Use <|> to move the cursor to the character that you wish to change.
- 3 Use Δ∇ to change the character.
 - The types of characters that can be input are as shown below.

[Lower case]

abcdefghijklmnopqrstuvwxyz

[Upper case]

ABCDEFGHIJKLMNOPQRSTUVWXYZ

[Symbols] ! " # \$ % & ' () * + , - . / : ; < = > ? @
[\] ^ _ { | } ~

[Numbers] 0 1 2 3 4 5 6 7 8 9 (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.



General

Make various other settings.

Audio Out

You can set whether to “Fixed” or “Variable” the analog audio output level.

Fixed (Default):	Fixes the analog audio output level (0 dB).
Variable:	You can adjust the analog audio output level using the VOLUME ▲▼ buttons on the remote control.



- The remote control needs to be set in order to adjust the analog audio output level. (🔧 p. 100)
- When the analog output level is adjusted, the headphone volume also changes. When using the headphones, adjust the volume to a suitable level by also using the headphone volume control knob.
- When “Variable” is selected, the analog audio output level can be adjusted to --- dB (minimum) and between the range from -99 dB – 0 dB (Default: -40 dB).

NOTE

- Note that the analog audio output level changes to the maximum (0 dB) when the analog audio output setting is changed from “Variable” to “Fixed”.
- Before changing the settings, turn the volume of the amp connected to the analog audio output terminals (AUDIO OUT) and headphones connected to the unit to the minimum volume.

Volume Limit

This sets the maximum analog audio output level that can be used when the analog audio output setting is set to variable.

0 dB:	Set the maximum analog audio output level to 0 dB.
-10 dB (Default):	Set the maximum analog audio output level to -10 dB.
-20 dB:	Set the maximum analog audio output level to -20 dB.



This can be set when the “Audio Out” setting is set to “Variable”.



Language

Sets the language for display the menu.

English / Française / Español (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.

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

On:

1 min / 5min /

15min /

Other:

The unit goes into standby after 15 minutes.

When "Other" is selected, the "Auto-Standby" time can be set within the range of 1 - 99 minutes.

Select the value using Δ / ∇ and then press ENTER to enter the setting value.

Off (Default):

The unit does not go into standby automatically.



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.



■ 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 popup menu.

■ 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.



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. (☞ p. 28)
- 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.



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



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 / DHCP On 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.

The network function can be used when in standby power
On (Default): mode. Main unit operable with a network compatible controller.

Off: The network function cannot be used in standby power mode.



When using the Web control function or a network controller or when you want to use Bluetooth/NFC quickly when the power is off, set “Network Control” to “On”.

NOTE

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



Friendly Name

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

■ 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" (p. 85).
- The default Friendly Name on first use is "Marantz NA6005".

■ Default

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

Pandora Display

Set whether or not to display Pandora item on the menu.

Show (Default): Pandora items will be displayed.

Hide: Pandora items will not be displayed.

SiriusXM Display

Set whether or not to display SiriusXM item on the menu.

Show (Default): SiriusXM items will be displayed.

Hide: SiriusXM items will not be displayed.



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.

Off: Configure the network settings manually.

□ IP Address

Set the IP address within the ranges shown below.

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

CLASS A: 10.0.0.1 - 10.255.255.254

CLASS B: 172.16.0.1 - 172.31.255.254

CLASS C: 192.168.0.1 - 192.168.255.254

□ Subnet Mask

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

□ 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”.



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. (p. 28)
- If you do not understand about Internet connection, contact your ISP (Internet Service Provider) or the store from which you purchased your computer.

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

This automatically searches for networks.

1 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.

Default Key:	Select the default key. <ul style="list-style-type: none"> • When connecting to a WEP encrypted network, “Default Key” menu is displayed.
Password:	Input the password.
DHCP/Proxy:	Performs the DHCP and proxy setting. ( p. 94, 95)
Test Connection:	Test the connection.

❑ Share Wi-Fi setting from an iOS device

You can use an iOS device such as an iPhone or iPad to configure Wi-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)

1 Register the PIN code of the unit in the router.



❑ Web Browser Setup

Use a web browser to set up Wi-Fi.

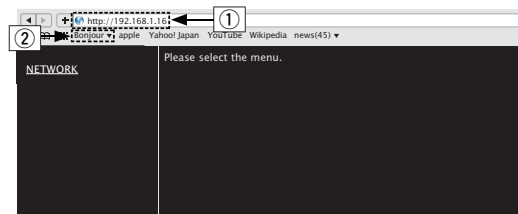
A Wi-Fi device that can perform web browse operations is required.

1 Read the precautions on the screen, and press ENTER.

2 Select Wi-Fi network called “Marantz NA6005” from your Wi-Fi device.

The IP address (192.168.1.16) appears on the unit.

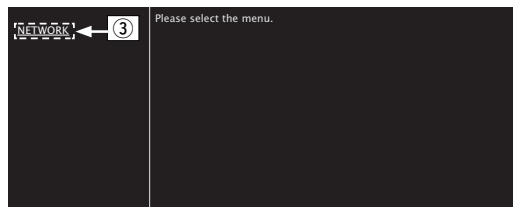
3 Enter the IP address of this unit in browser’s address box.



- 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.



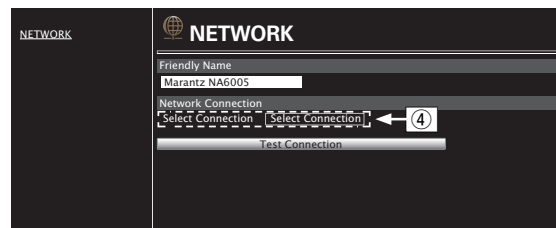
4 When the top menu is displayed, click “NETWORK”.



③ Click “NETWORK”. (🖱️【Example 1】)

5 Operate.

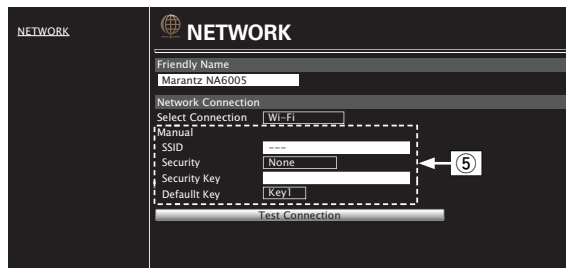
【Example 1】 Network Setting 1



□ Network connection settings

- ④ Click to change the network connection method. If you select “Wi-Fi”, a new item will appear on-screen. (🖱️【Example 2】)



[Example 2] Network Setting 2**□ 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.



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

□ 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. (🔗 p. 94, 95)

Test Connection: Test the connection.



Switching the function of the volume buttons on the remote control

When the function of the VOLUME ▲▼ buttons on the remote control is set to “Variable”, the analog audio output level can be adjusted. Be sure to check the operation of each unit after setting the remote control codes.

AMP (Default):	Adjusts the volume of Marantz amplifiers.
Variable:	Adjusts the analog audio output level of the analog audio signal output from this unit.

Set the function of the volume buttons on the remote control to “Variable”

- 1 Press and hold the ENTER and number 1 button down together for more than 5 seconds.

NOTE

To adjust the analog audio signal output from this unit using the remote control, also set “Audio Out” to “Variable”. (☞ p. 87)

Set the function of the volume buttons on the remote control to “AMP”

- 1 Press and hold the ENTER and number 2 button down together for more than 5 seconds.

NOTE

The remote control codes returns to the default settings when the batteries are removed. Set the remote control codes again after replacing the batteries.



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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. (👉 p. 37)
- Press the DIMMER button to turn the display off. (👉 p. 37)

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. 53)

Simple operations in the power off state

- Press the ► or ►/|| 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. (👉 p. 54)

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". (👉 p. 94)





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	Cause / Solution	Page
Power is not turned on.	• Check whether the power plug is correctly inserted into the power outlet.	33
	• This unit is in standby mode. Press  on the unit or POWER  on the remote control.	35
Power automatically turns off.	• The sleep timer is set. Turn on the power again.	37
	• "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".	88

■ 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 performed through the remote control unit.	• Batteries are worn out. Replace with new batteries.	<u>7</u>
	• Operate the remote control unit within a distance of about 23 ft/7 m from this unit and at an angle of within 30°.	<u>8</u>
	• Remove any obstacle between this unit and the remote control unit.	—
	• Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks.	<u>7</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>32</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>37</u>



■ No sound comes out



Symptom	Cause / Solution	Page
No sound is produced. Or sound is distorted.	• Check the connections for all devices.	<u>20</u>
	• 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	Cause / Solution	Page
During playback from the Internet radio or USB memory device, sound is occasionally interrupted.	• When the transfer speed of the USB memory device is slow, sound may occasionally be interrupted.	—
	• The network communication speed is slow or the radio station is busy.	—
When making a call on iPhone, noise occurs in audio output on this unit.	• When making a call, keep a distance of 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>94</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>94</u>
Noise often occurs in FM/AM broadcasting.	• Change the antenna orientation or position.	<u>26</u>
	• Use an outdoor antenna.	<u>26</u>
	• Separate the AM loop antenna from the unit.	<u>26</u>
	• Separate the antenna from other connection cables.	<u>26</u>



■ 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.	25
	• 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  is not displayed on iPhone / iPod touch / iPad.	• This unit and PC / iPhone / iPod touch / iPad are not connected to the same network (LAN). Connect it to the same LAN as this unit.	28
	• 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.	61
Audio is interrupted during the AirPlay playback on iPhone / iPod touch / iPad.	• Quit the application running in the background of the iPhone/iPod touch/iPad, and then play using AirPlay.	—
	• Some external factors may be affecting the wireless connection. Modify the network environment by taking measures such as shortening the distance from the wireless LAN access point.	—



■ USB memory devices cannot be played back

Symptom	Cause / Solution	Page
"No Connection" is displayed.	<ul style="list-style-type: none"> 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>24</u>
	<ul style="list-style-type: none"> USB memory devices of a mass storage class or those compatible with MTP are supported. 	—
	<ul style="list-style-type: none"> This unit does not support a connection through a USB hub. Connect the USB memory device directly to the USB port. 	—
	<ul style="list-style-type: none"> The USB memory device must be formatted to FAT16 or FAT32. 	—
	<ul style="list-style-type: none"> Not all USB memory devices are guaranteed to work. Some USB memory devices are not recognized. When using a type of portable hard disc drive compatible with the USB connection that requires power from an AC adapter, use the AC adapter that came with the drive. 	—
Files on the USB memory device are not displayed.	<ul style="list-style-type: none"> Files of a type not supported by this unit are not displayed. 	<u>55</u>
	<ul style="list-style-type: none"> 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. 	—
	<ul style="list-style-type: none"> When multiple partitions exist on the USB memory device, only files on the first partition are displayed. 	—
Files on a USB memory device cannot be played.	<ul style="list-style-type: none"> Files are created in a format that is not supported by this unit. Check the formats supported by this unit. 	<u>55</u>
	<ul style="list-style-type: none"> Files that are copyright protected cannot be played on this unit. 	—
	<ul style="list-style-type: none"> You are attempting to play a file that is copyright protected. Files that are copyright protected cannot be played on this unit. 	—



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

Symptom	Cause / Solution	Page
The file names are not displayed properly (“...”, etc.).	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> The LAN cable is not properly connected, or the network is disconnected. Check the connection status. 	28
Internet Radio cannot be played.	<ul style="list-style-type: none"> 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. 	39
	<ul style="list-style-type: none"> The firewall function is enabled on the router. Check the firewall setting. 	—
	<ul style="list-style-type: none"> Check the power of the router is on. 	—
	<ul style="list-style-type: none"> 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. 	94
	<ul style="list-style-type: none"> To obtain the IP address manually, set the IP address and proxy on this unit. 	94
Cannot connect to favorite radio stations.	<ul style="list-style-type: none"> 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. 	39
	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> The selected radio station is not in service. Select a radio station in service. 	—



■ Music files on PC or NAS cannot be played back

Symptom	Cause / Solution	Page
Files stored on a computer cannot be played.	• Files are stored in a non-compatible format. Record in a compatible format.	117
	• 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.	43
Server is not found, or it is not possible to connect to the server.	• The computer's or router's firewall is activated. Check the computer's or router's firewall settings.	—
	• Computer's power is not turned on. Turn on the power.	—
	• Server is not running. Launch the server.	—
	• Set's IP address is wrong. Check the set's IP address.	75
Files on PC or NAS are not displayed.	• Files of a type not supported by this unit are not displayed.	117
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.	43
	• If connection is restricted, set audio equipment as the connection target.	—



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

Symptom	Cause / Solution	Page
“Signal Unlock” is displayed.	<ul style="list-style-type: none">When digital audio signals cannot be detected properly, “Signal Unlock” is displayed.	<u>81</u>
“Unsupported” is displayed.	<ul style="list-style-type: none">“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>81</u>



■ Cannot connect by Wi-Fi

Symptom	Cause / Solution	Page
Cannot connect to the network.	<ul style="list-style-type: none"> The network name and password (WEP, etc.) settings are wrong. Configure the network settings according to the setting details of this unit. 	99
	<ul style="list-style-type: none"> 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. 	—
	<ul style="list-style-type: none"> Check the router power supply. 	—
	<ul style="list-style-type: none"> This unit supports IEEE802.11.b/g/n. 	—
	<ul style="list-style-type: none"> Configure the access point channel settings away from channels that are being used by other networks. 	—
	<ul style="list-style-type: none"> This unit is not compatible with WEP (TSN). 	—
Cannot connect to WPS.	<ul style="list-style-type: none"> Check that the WPS mode of the router is operating. 	—
	<ul style="list-style-type: none"> Press and hold the Wi-Fi CONNECT WPS button on this unit for approx. 3 seconds within 2 minutes of operating the router. 	—
	<ul style="list-style-type: none"> 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)”. 	94
	<ul style="list-style-type: none"> 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. 	82
Cannot connect to the network using iPhone/iPod touch/iPad.	<ul style="list-style-type: none"> Update the iPhone/iPod touch/iPad firmware to the latest version. 	—
	<ul style="list-style-type: none"> 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. 	—



■ Bluetooth cannot be played back

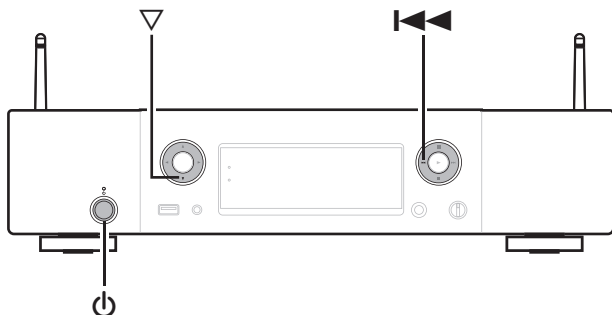
Symptom	Cause / Solution	Page
Bluetooth devices cannot be connected to this unit.	• The Bluetooth function in the Bluetooth device has not been enabled. See the Owner's Manual of the Bluetooth device to enable the Bluetooth function.	—
	• Bring the Bluetooth device near to this unit.	—
	• The Bluetooth 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.	92
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.	—






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.




- 1 When power is switched to standby.
- 2 Press the  button while pressing  and  together on this unit.

“Initialized” appears in the display.



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

NOTE

Audio output level is not returned to the default settings.
Use “Audio Out” in the menu to change the settings. ( p. 87)



Playing back a USB memory devices

- 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.

Compatible formats

	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.
- *2 Copyright [2012] [D&M Holdings, Inc.] Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>

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.

Item	Media	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



Playing back Internet Radio

■ Playable broadcast station specifications

	Sampling frequency	Bit rate	Extension
WMA	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3	32/44.1/48 kHz	32 – 320 kbps	.mp3
MPEG-4 AAC	32/44.1/48 kHz	16 – 320 kbps	.aac/ .m4a/ .mp4



Playing back files stored on a PC and NAS

- 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.
- 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

	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

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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.

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 $\Delta-\Sigma$ 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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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.



■ 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.



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.



■ 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.



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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	–

■ Tuner section

Receiving Range:	[FM]	[AM]
Effective sensitivity:	87.5 MHz – 107.9 MHz	520 kHz – 1710 kHz
FM Channel separation:	1.2 μV / 75 Ω/ohms	20 μV
FM S/N ratio:	42 dB (1 kHz)	
Distortion:	Monaural : 70 dB Stereo : 70 dB	
	Monaural : 0.5 % (1 kHz) Stereo : 0.5 % (1 kHz)	



■ 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 – 11 ch

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



■ Bluetooth section

Communications system:	Bluetooth Version 2.1 + EDR (Enhanced Data Rate)
Transmission power:	Maximum 2.5 mW (Class 2)
Maximum communication range:	Approx. 32.8 ft/10 m in line of sight*2
Frequency band:	2.4 GHz band
Modulation scheme:	FHSS (Frequency-Hopping Spread Spectrum)
Supported profiles:	A2DP (Advanced Audio Distribution Profile) 1.2 AVRCP (Audio Video Remote Control Profile) 1.4
Corresponding codec:	SBC, AAC
Transmission range (A2DP):	20 Hz - 20,000 Hz

*2 The actual communication range varies depending on the influence of such factors as obstructions between devices, electromagnetic waves from microwave ovens, static electricity, cordless phones, reception sensitivity, antenna performance, operating system, application software etc.

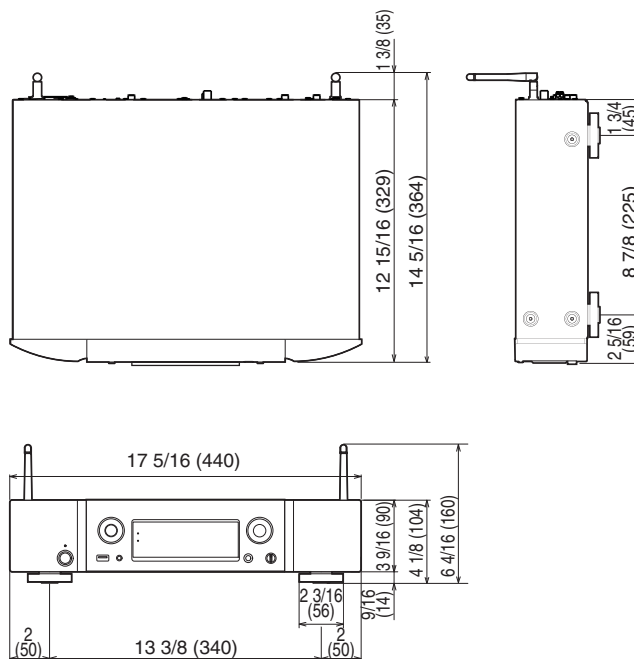
■ General

Power supply voltage/frequency:	AC 120 V 60 Hz
Power consumption:	35 W
Power consumption in standby mode:	0.4 W
Power consumption in “Network Control” – “On” mode:	4.0W

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



■ Dimensions (Unit : in. (mm))



■ Weight : 13 lbs 4 oz (6.0 kg)

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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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■ cURL

<http://curl.haxx.se>

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■ c-ares

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