



marantz®

Network Audio Player
NA8005

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

Owner's Manual

[Front panel](#)

[Rear panel](#)

[Remote control
unit](#)

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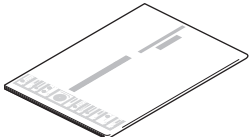
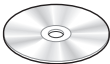
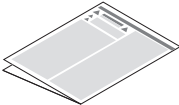
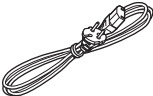
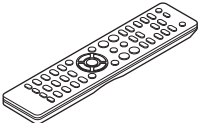

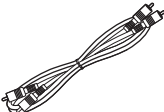
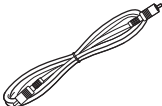
Thank you for purchasing this Marantz product.

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.

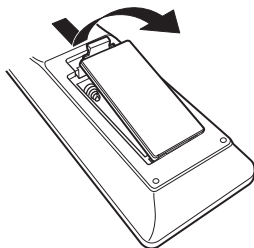
 <p>Quick Start Guide</p>	 <p>Owner's Manual (CD-ROM)</p>	 <p>Safety Instructions</p>	 <p>Power cord</p>
 <p>Remote control unit (RC003NA)</p>	 <p>R03/AAA batteries</p>	 <p>Audio cable</p>	 <p>Remote connector cable</p>



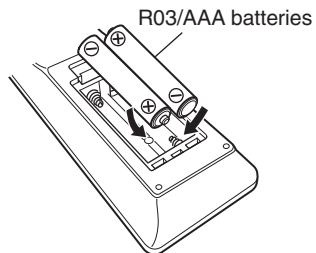
About the remote control

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.

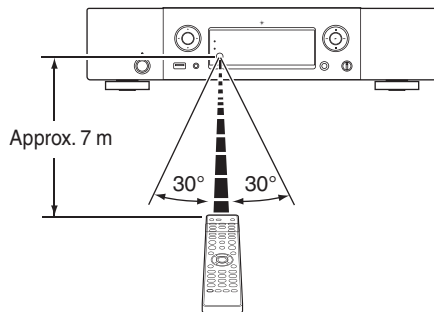
NOTE

- 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 Remote App

Marantz 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 Remote App can be downloaded for free from the Apple App Store or Google Play store.



Main features

High quality sound

- **Large-capacitance block capacitor**

A large capacitance 3,300 μ F capacitor carefully selected for its acoustic characteristics is incorporated into the power supply circuit.

- **Audiophile-grade film capacitors and electrolytic capacitors**

The unit's features the same audiophile-grade film capacitors and electrolytic capacitors specifically used in top-range models.

- **Peripheral circuitry off function minimizes audio output signal interference**

In order to minimize noise from peripheral circuitry which could interfere with the analog audio signal, this unit is equipped with a peripheral circuitry off function which turns off the digital output circuit and the display.

- **Low noise amp due differential input HDAM, and equipped with a low distortion filter circuit due to high speed HDAMSA2 delivery amp**

- **Double-layered chassis**

- **High-grade machined analog audio output connectors**

- **High grade headphone circuit**

The high-grade headphone circuit incorporates HDAM[®] SA2 amplifier to enable headphone listening of high quality sound reproduction, late at night or in other such situations.



High performance

- **Equipped with a USB-DAC function that is compatible with playback of DSD files**

- **Playback of DSD and FLAC files via USB and networks**

This unit supports the playback of high resolution audio formats such as DSD (2.8/5.6 MHz) and FLAC 192 kHz files. It provides high quality playback of high resolution files.

- **Can be used as a D/A convertor**

Digital audio signals input from an external device or computer into this unit can be converted and output as analog signals using this unit's D/A converter.

- **Support for High Quality Audio playback**

WAV/FLAC/ALAC (Apple Lossless Audio Codec)/AIFF

- **Supports Internet Radio and music streaming Supports AirPlay®** (🔧 p. 55)

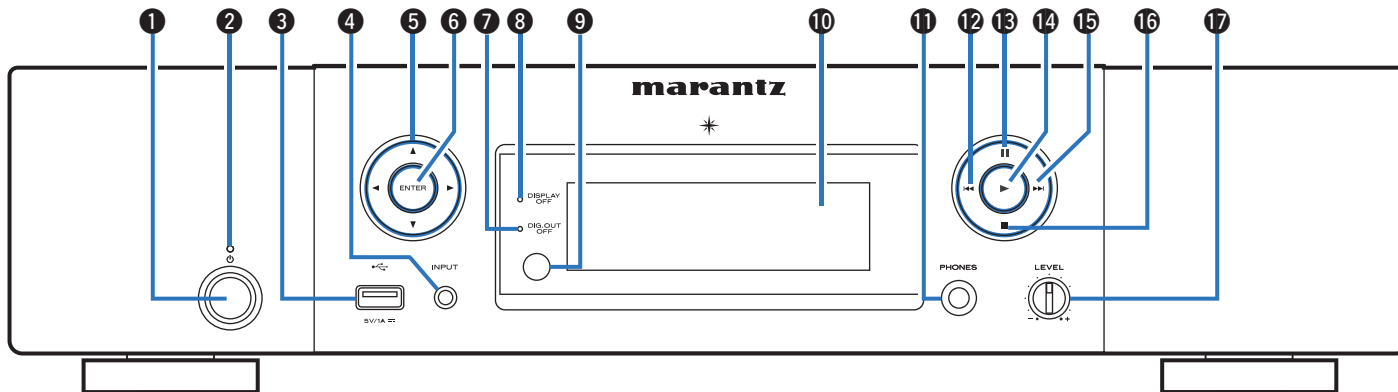
- **Plays USB memory devices (MP3/WMA/AAC/WAV/FLAC/ALAC/AIFF/DSD) and iPod®/iPhone®**
- **DLNA ver. 1.5 support for audio networks**
- **Support for Gapless playback**
Playback with no gap between music files. (for WAV/FLAC/ALAC/AIFF/DSD only)
- **Smart recharge control starts recharging the iPod® when it is connected, and after recharging optimizes power consumption in accordance with the status of this unit** (🔧 p. 22)
- **Compatible with “Marantz 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

For buttons not explained here, see the page indicated in parentheses ().

Front panel



1 POWER button (⏻)

This turns the power on/off (standby). (👉 p. 31)

2 Power 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

3 USB port

Used to connect iPod or USB memory devices. (👉 p. 22)

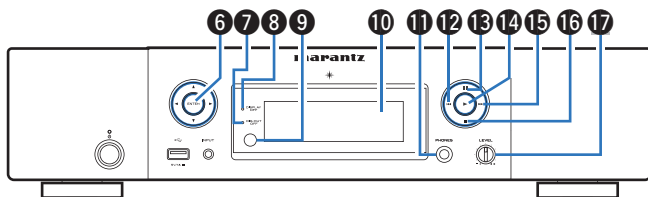
4 INPUT button

These select the input source. (👉 p. 32)

5 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. 33)

8 DISPLAY OFF indicator

This indicator lights up when the display is off. (☞ p. 33)

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. 42, 50, 54)

13 Pause button (⏸)

Pauses playback. (☞ p. 42, 50, 54)

14 Play button (▶)

Playback starts. (☞ p. 42, 50, 54)

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

Plays the next track. Press and hold to fast-forward the track. (☞ p. 42, 50, 54)

16 Stop button (■)

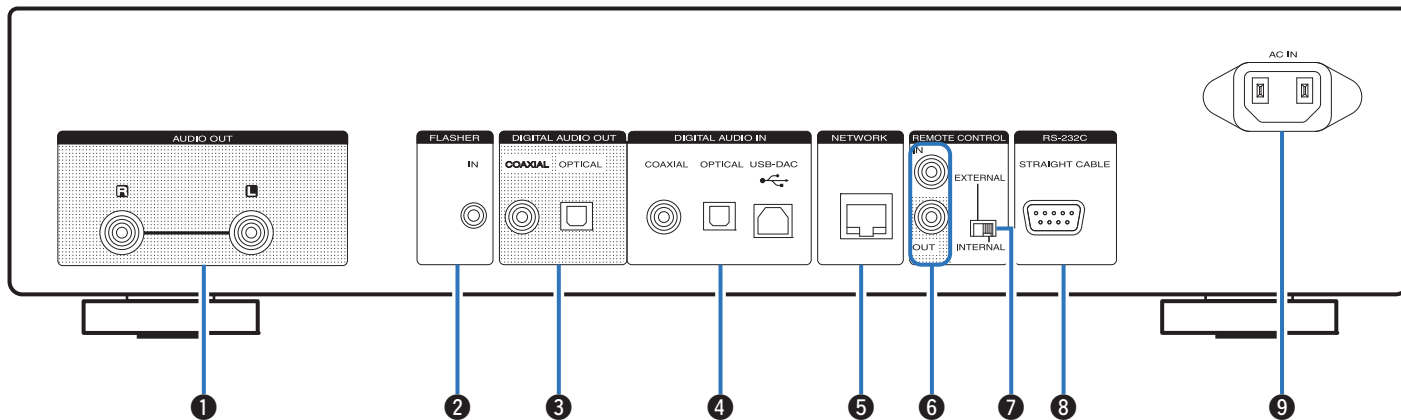
Stops playback. (☞ p. 42, 50, 54)

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 power amplifier. (☞ p. 18)

2 FLASHER IN jack

Used to connect a control box, etc. (☞ p. 27)

3 DIGITAL OUTPUT connectors

Used to connect an AV receiver or D/A converter that has a digital input connectors. (☞ p. 19)

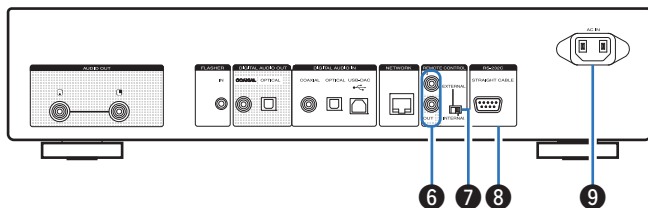
4 DIGITAL INPUT connectors

Used to connect a computer or devices equipped with digital audio output connectors. (☞ p. 20)

5 NETWORK connector

Used to connect to a LAN cable when connecting to a wired LAN network. (☞ p. 24)





**6 Remote control input/output connectors
(REMOTE CONTROL IN/OUT)**

Used to connect to a Marantz amplifier that is compatible with the remote control function. (👉 p. 28)

7 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. 28)

8 RS-232C connector

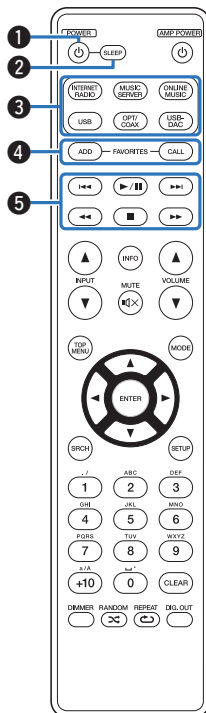
Used to connect home automation controller devices fitted with RS-232C terminals. (👉 p. 26)

9 AC inlet (AC IN)

Used to connect the power cord. (👉 p. 29)



Remote control unit



The included remote control unit can be used to operate Marantz amplifiers. When using it, also refer to the operating instructions of the other devices.

- The remote control may not operate some devices.

1 POWER button (⏻)

This turns the power on/off (standby). (☞ p. 31)

2 SLEEP button

This sets the sleep timer. (☞ p. 33)

3 Input source select buttons

These select the input source. (☞ p. 32)

4 FAVORITES ADD / CALL buttons (FAVORITES ADD / CALL)

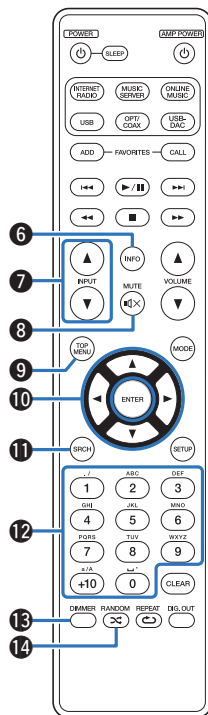
- To add radio stations or files to the favorite list, press ADD button.
- To call up a radio station or file registered in the favorite list, press CALL button. (☞ p. 45)

5 System buttons

These perform playback related operations. (☞ p. 42, 50, 54)

- Skip buttons (⏮, ⏭)
- Play/pause button (▶/⏸)
- Fast-reverse / Fast-forward buttons (⏪, ⏩)
- Stop button (■)





6 Information button (INFO)

This switches display items such as the album name and title name in the playback screen. (☞ p. 35, 42, 50, 54)

7 Input source select buttons (INPUT ▲▼)

This switches the input source of the amp connected to this unit. (☞ p. 32)

8 MUTE button (M)

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

9 TOP MENU button

To back to the top of the menu.

10 Cursor buttons (▲▼◀▶)

These select items. (☞ p. 34, 44, 47, 51)

11 Search button (SRCH)

This displays the search menu. (☞ p. 35, 42, 54)

12 Number buttons (0 – 9, +10)

These enter letters or numbers into the unit. (☞ p. 45, 81)

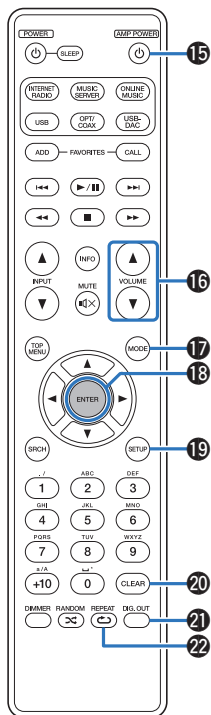
13 DIMMER button

Adjust the display brightness of this unit. (☞ p. 33)

14 RANDOM button (R)

Switches the random playback. (☞ p. 41, 49, 53)





15 AMP POWER button (⏻)

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

16 Amplifier volume adjustment buttons (VOLUME ▲▼)

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

17 MODE button

This switches the playback mode. (👉 p. 48, 50)

18 ENTER button

This determines the selection. (👉 p. 34, 44, 47, 51, 79)

19 SETUP button

The setting menu is displayed on the display. (👉 p. 79)

20 CLEAR button

This cancels the settings. (👉 p. 81)

21 Digital audio output switch button (DIG. OUT)

This switches the digital audio output on/off. (👉 p. 33)

22 REPEAT button (↺)

Switches the repeat playback. (👉 p. 41, 49, 53)



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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.

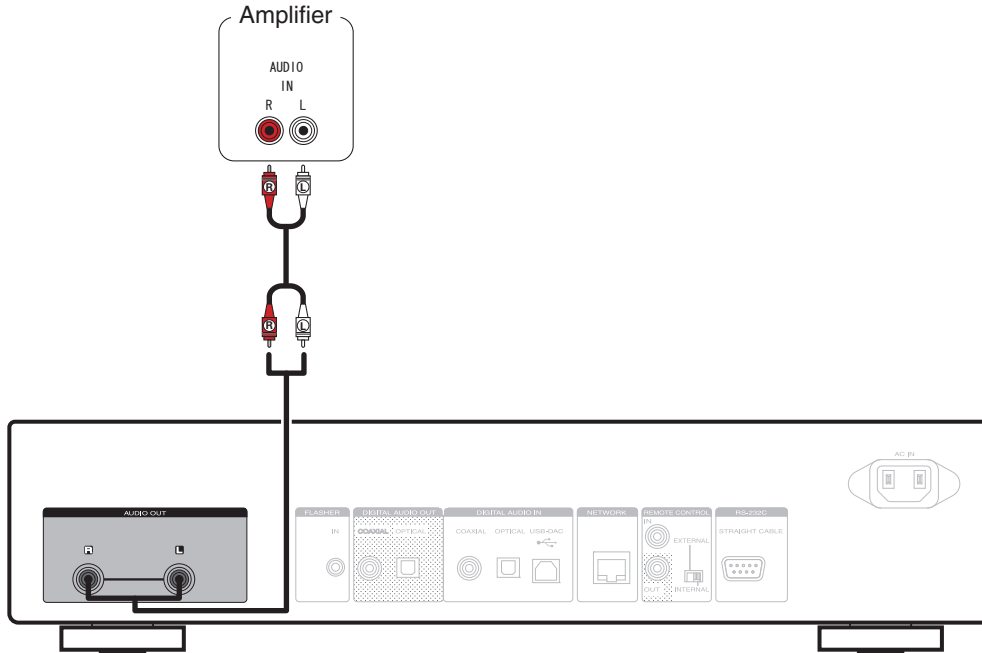
■ Cables used for connections

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

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

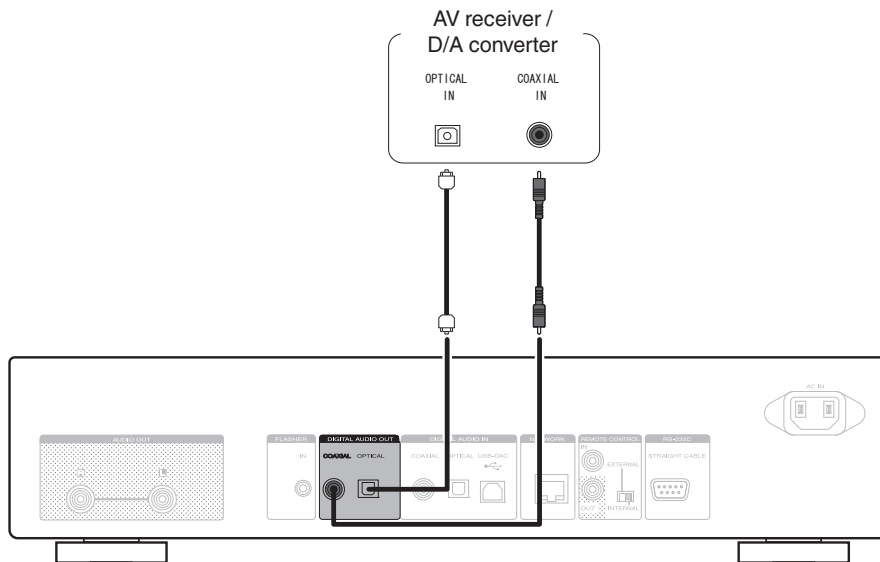


Connecting an amplifier



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.



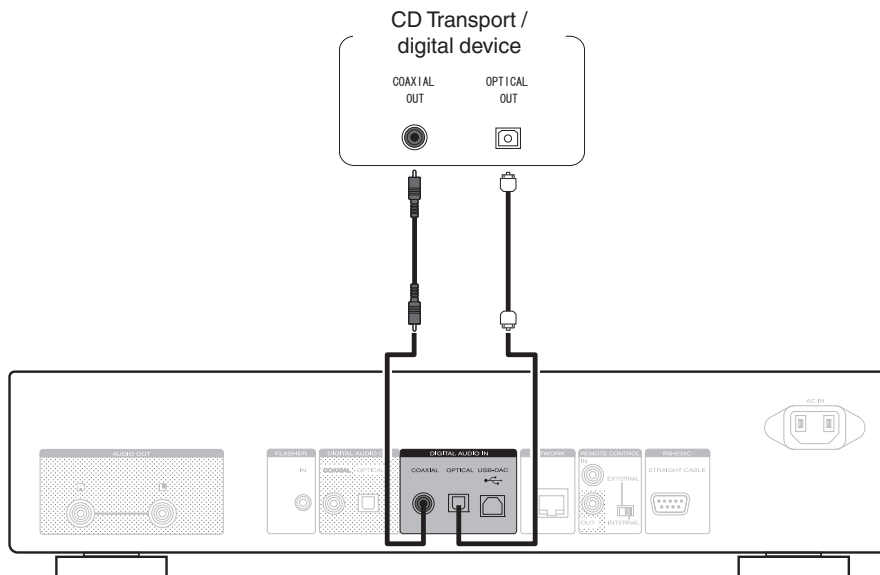
NOTE

- Digital audio output is stopped during playback of the USB-DAC (DSD signals and linear PCM signals that have a 32 kHz sampling frequency).
- Use the Digital Out button to set the digital audio output on or off. (☞ p.33)



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. 76)



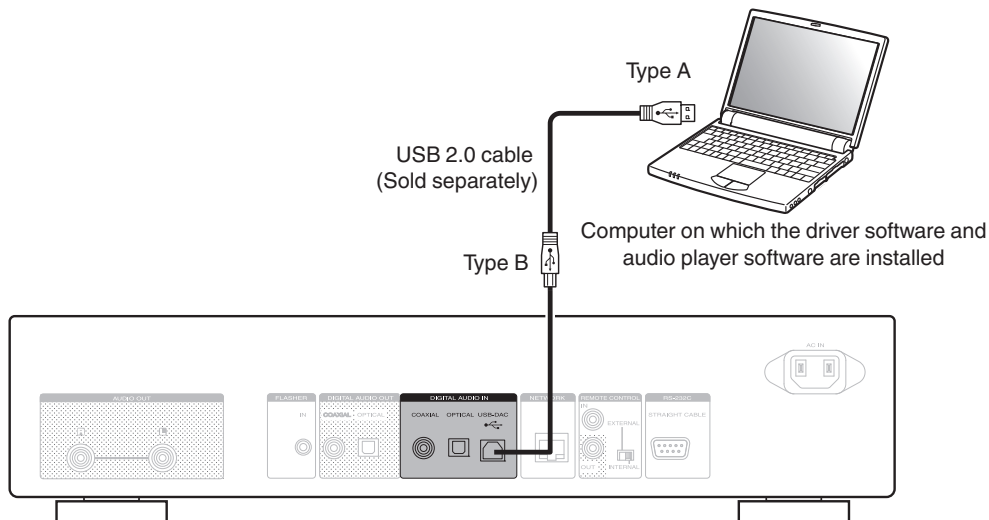
NOTE

- 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 a PC or Mac

By connecting a computer to the USB-DAC port on the rear panel of this unit using a commercially available USB connecting cable, this unit can be used as a D/A converter. (🔗 p. 68)



- Install the dedicated driver software on the computer to enable communication between the computer and this unit in order to playback high-resolution sound source (DSD signal or 192 kHz/24 bit PCM signal) audio available on the internet. (🔗 p. 68)
- Download the driver software from the NA8005 page of the Marantz website.

NOTE

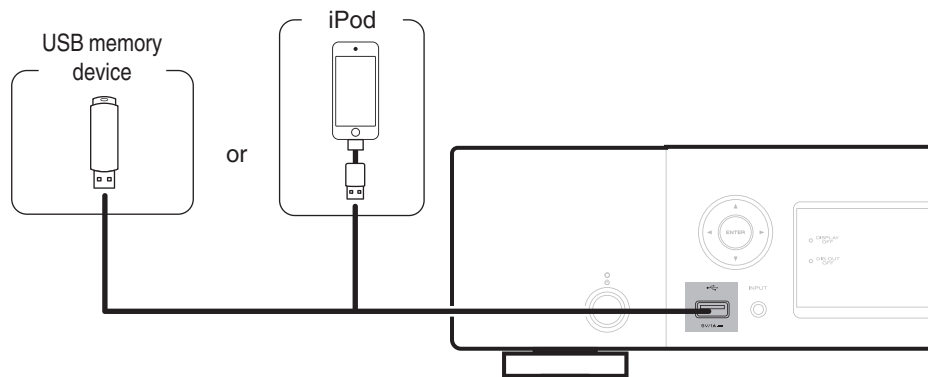
Use a cable that is 3 m or less to connect to the computer.



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



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.
- Playback is not possible when connected via the front panel's USB port. Connection to a computer is possible via the digital input USB-DAC port (Type B) on the rear panel.
- Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices.



■ 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



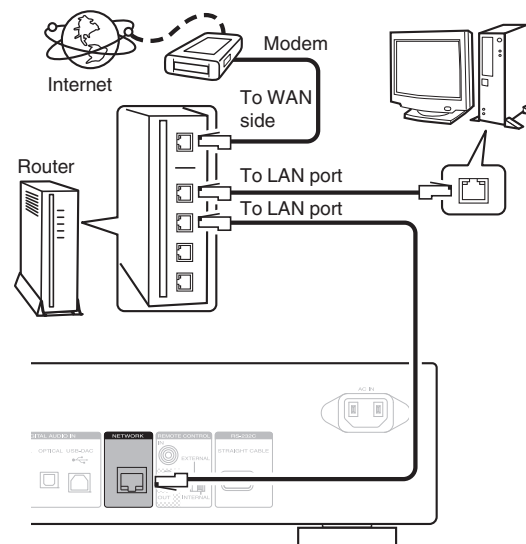
iPhone 5
iPhone 5c iPhone 5s
16GB 32GB 64GB



Connecting to a home network (LAN)

- This unit lets you play via your home network (LAN) music files stored on a computer and music content such as that from Internet radio. You can also operate this unit from a computer using the Web control function. “Web control function” (☞ p. 62)
- You can update by downloading the latest firmware from the Marantz website. For more information, see “Firmware” (☞ p. 83).
- Network settings are required. See “Network” (☞ p. 86).

Wired LAN



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



Required system

■ Broadband Internet connection

■ Modem

Device that connects to your broadband internet provider, and is very often supplied with the service. A type that is integrated with a router is also often available.

■ Router

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.

■ LAN cable (CAT-5 or greater recommended)

- Use only a shielded STP or ScTP LAN cable which is easily available at electronics stores.
- The normal shielded-type LAN cable is recommended. If a flat-type cable or unshielded-type cable is used, other devices could be affected by noise.



- When using this unit connected to a network with no DHCP function, make the settings for the IP address, etc., at “Network connection (when “DHCP” settings is “Off”)” (☞ p. 86).
- 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 this unit is connected to a network that does not have the DHCP function, configure settings such as the IP address, etc. in “Network connection (when “DHCP” setting is “Off”)” (☞ p. 86).
- When setting manually, check the setting contents with the network administrator.

NOTE

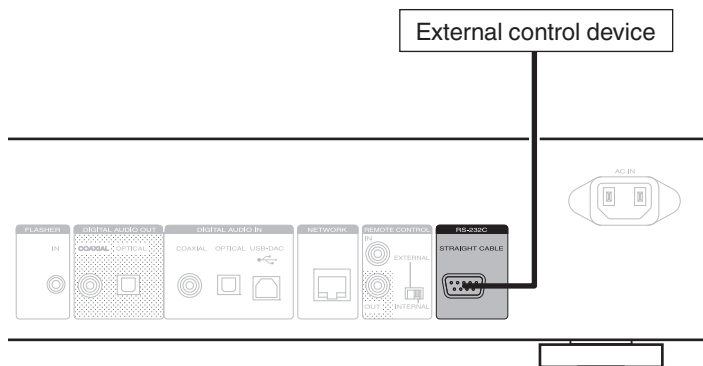
- A contract with an ISP is required to connect to the Internet.
- No additional contract is needed if you already have a broadband connection to the Internet.
- The types of routers that can be used depend on the ISP. Contact your ISP or a computer shop for details.
- Marantz assumes no responsibility whatsoever for any communication errors or troubles resulting from customer’s network environment or connected devices.
- 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 an NETWORK connector directly to the LAN port / Ethernet connector on your computer.
- To listen to audio streaming, use a router that supports audio streaming.



Other connections

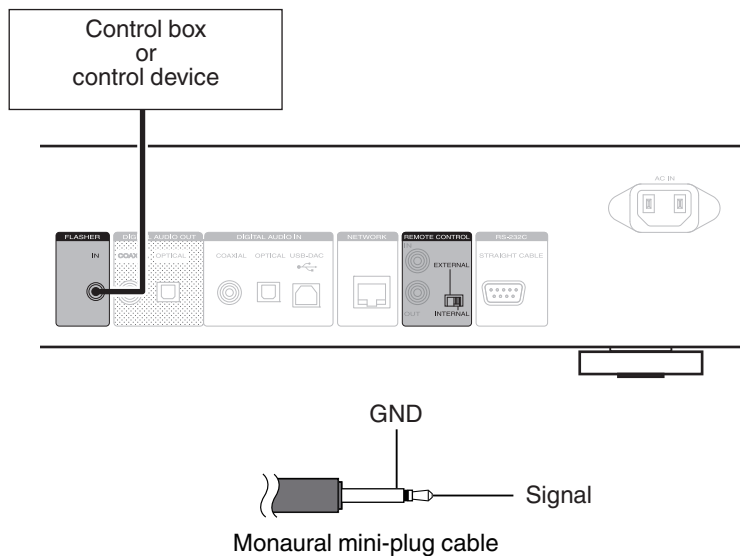
RS-232C connector

Used to connect external control devices.
(Use a straight cable for the connection.)



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 Remote App or web control function. 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.

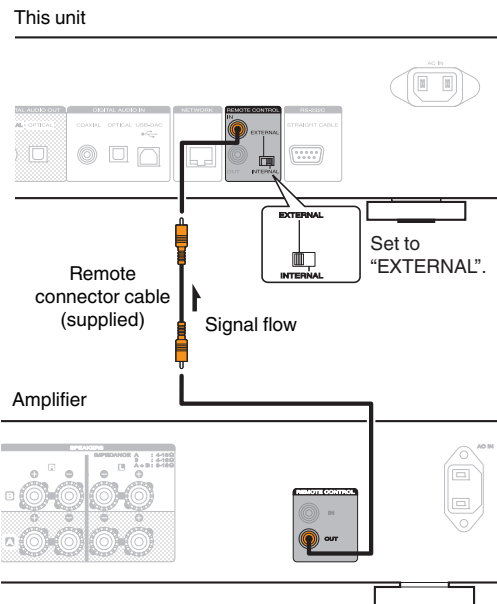
Setting

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.

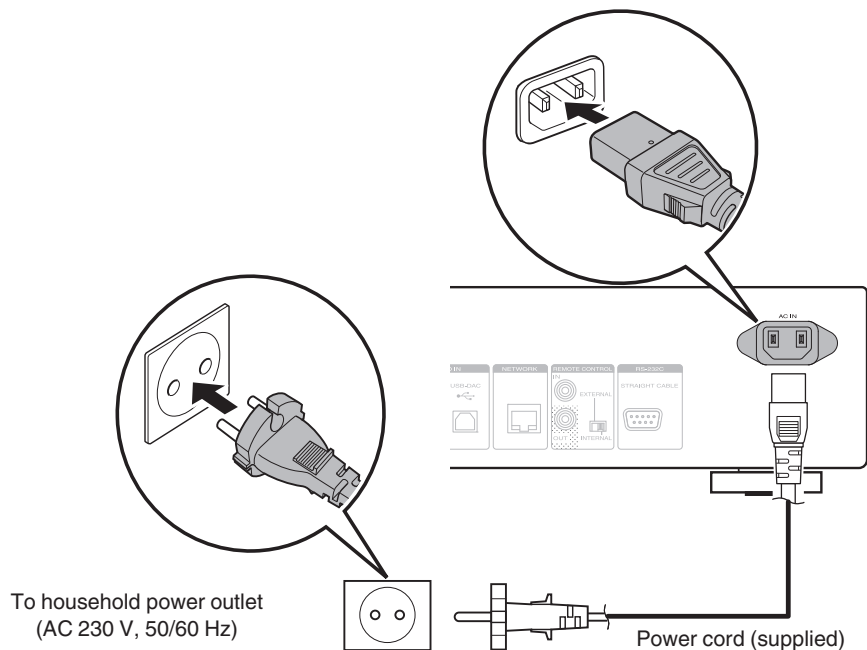


To use this unit by itself without connecting an amplifier, turn the switch to “INTERNAL”.



Connecting the power cord

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

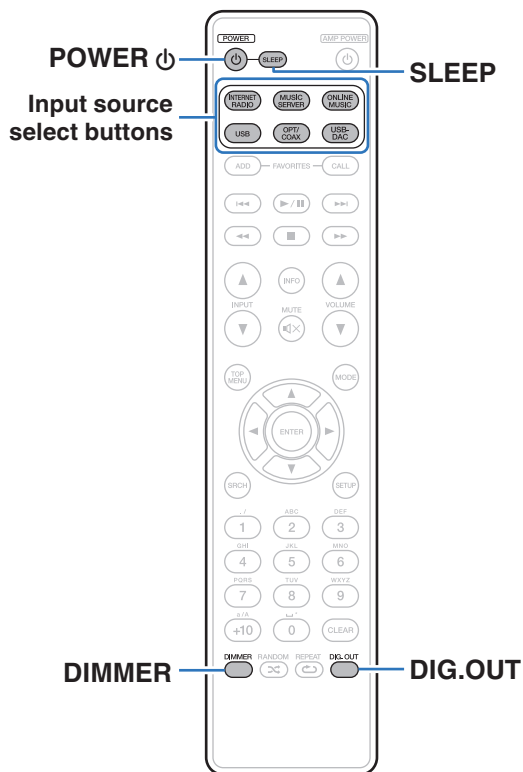


■ Contents

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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.

- Power indicator
 - 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.

■ 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

The display brightness can be adjusted between four levels. Switching the display off reduces a source of noise that affects sound quality, enabling higher sound quality playback.

1 Press DIMMER.



- When the display is turned off, the DISPLAY OFF indicator lights.
- 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.

Using the sleep timer

Use this function to automatically switch the power to the standby mode after a specific amount of time (minutes).

1 Press SLEEP during playback and select the setting time.

- The sleep timer can be set to up to 90 minutes, in steps of 10 minutes.
- After about 3 seconds, the setting is entered and the display returns to as it was before.

■ Canceling the sleep timer

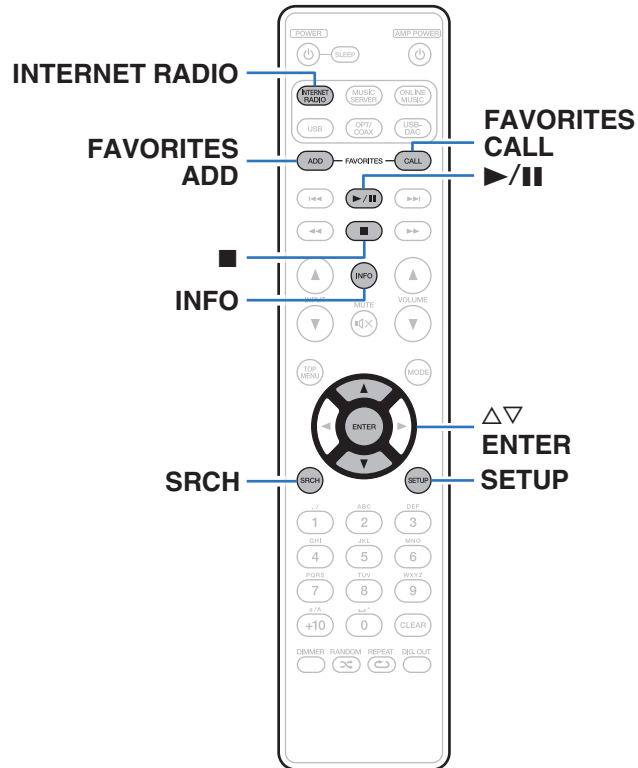
Either press SLEEP to select "Sleep ► OFF" or press POWER .

■ 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** (Windows Media Audio)
 - **MP3** (MPEG-1 Audio Layer-3)
 - **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. 24)

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" ("Using vTuner to add Internet Radio stations to favorites" (🔗 p. 37)).
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. 80).



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

Playback starts once buffering reaches "100%".

Operation buttons	Function
	Playback
	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.
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.

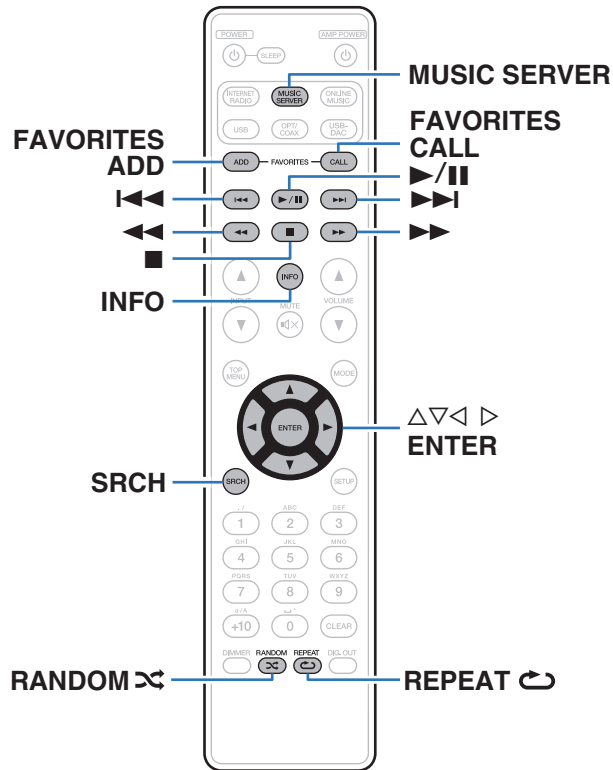
- Internet Radio stations added to favorites in vTuner can be played from “radiomarantz.com” (☞ p. 35) with this unit.

■ Files that can be played back

See “Playing back Internet Radio” (☞ p. 101).



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
 - Windows Media DRM10
- This unit can play back the following files.
 - WMA** (Windows Media Audio)
 - MP3** (MPEG-1 Audio Layer-3)
 - WAV**
 - MPEG-4 AAC**
 - FLAC** (Free Lossless Audio Codec)
 - ALAC** (Apple Lossless Audio Codec)
 - 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 Media Server, be sure to apply this setting first.

■ Windows Media Player 12 (Windows 7 / Windows 8)

NOTE

Perform this procedure after changing the control panel display to “Category”.

- 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 NA8005”.
- 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 NA8005”, 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 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. (🔗 p. 31)
- ② If settings are required, make the "Network" (🔗 p. 86).
- ③ Prepare the computer. ("Applying media sharing settings" (🔗 p. 39), "About Music server" (🔗 p. 42))

2 Press MUSIC SERVER to switch the input source to "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 search item or folder, then press ENTER.

5 Repeat step 4 until the file is displayed.

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

Playback starts once buffering reaches "100%".



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.



■ Music server operation

Operation buttons	Function
FAVORITES ADD	Add to the Favorite list
FAVORITES CALL	Call from the Favorite list
△ ▽ ◀ ▶	Cursor operation
ENTER	Enter
SRCH	Character search*1
⏮ ⏭	Skip search (cue)
⏪ ⏩	Manual search (fast-reverse/fast-forward)
▶/	Playback / Pause
■	Stop
REPEAT ↺	Repeat playback (👉 p. 41)
RANDOM 🎲	Random playback (👉 p. 41)*2

*1 Press SRCH, then press ENTER to select the first letter you want to search mode.

*2 During random playback of files stored on a computer, each time playback of a track is completed, another track is randomly selected for playback from tracks in the folder.



- If the list is not in alphabetical order, you may not be able to perform a character search.
- Depending on the server being used, some functions may be limited.

■ Switching the display

During playback, press INFO.

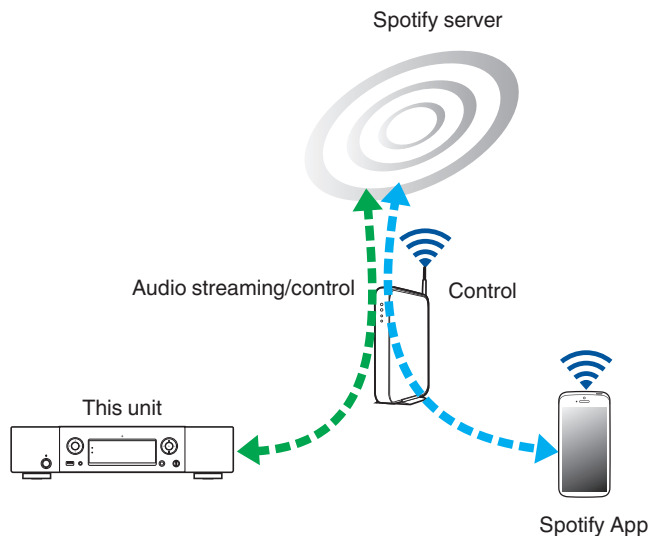
- The display switches between the artist name, album name and file type/bit rate of the track being played back.



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.

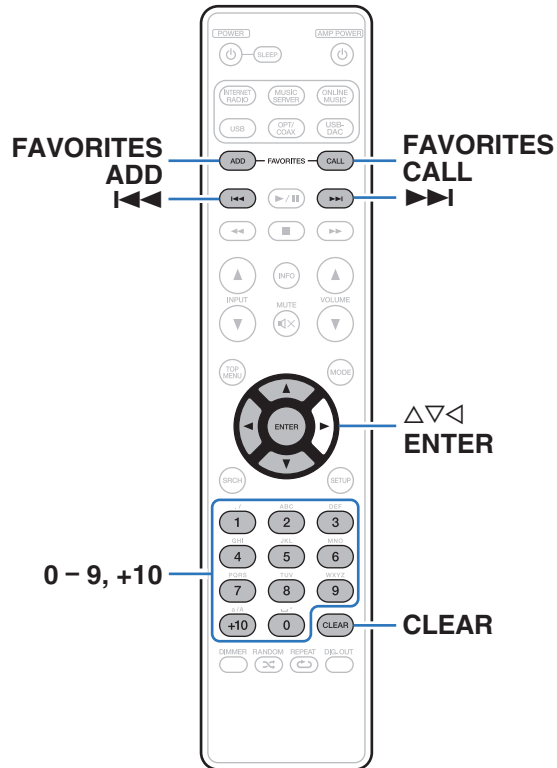
- 1** Connect the Wi-Fi settings of the iOS or Android device in the same network as this unit.
- 2** Launch the Spotify App.
- 3** Play back the Spotify track.
- 4** Tap the  icon to select the unit.



The music will stream to this unit.



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 and music server.
- 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.**
The Favorite list appears.
 - 2 Press \lll , \ggg 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**
Press \lll , \ggg or $\Delta \nabla$.

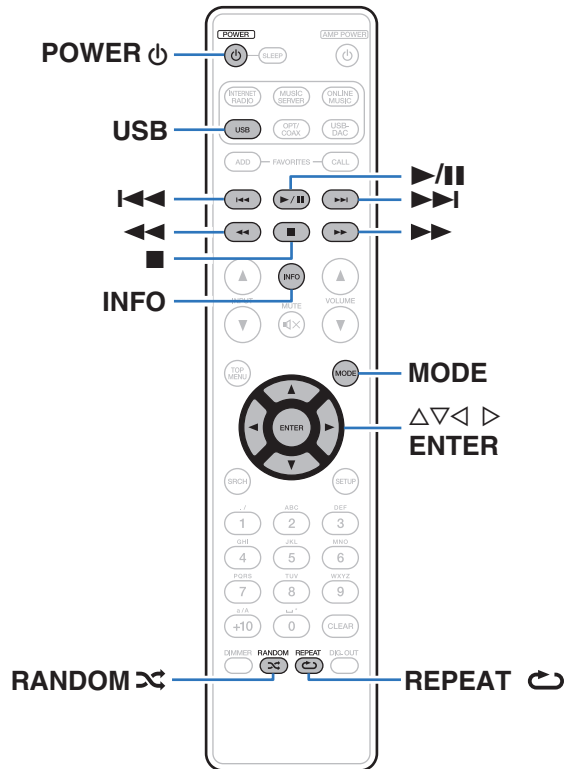


Deleting stations or files from the favorite list

- 1 Press FAVORITES CALL.**
The Favorite list appears.
 - 2 Use $\Delta\nabla$ to select the station or file that you want to delete, and press CLEAR.**
When the prompt "Delete?" appears, press ENTER.
 - 3 "Deleted" is displayed and the deletion is completed.**
- **To cancel the operation**
Press \triangleleft .



Playing back 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. 23](#)).



Playing an iPod

- 1 Press **USB** to switch the input source to “**USB**”.
- 2 Connect the iPod to the USB port. (☞ p. 22)
- 3 Operate iPod itself directly while seeing the iPod screen to play back music.

4 Press **MODE** to select the display mode.

The display mode switches each time **MODE** is pressed.

- There are two modes for displaying the contents recorded on the iPod.

Remote mode: Display iPod information on the display of this unit.

Direct mode
(Default): Display iPod information on the iPod screen.

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

* Only the sound is played.



5 Use Δ / ∇ to select the item, then press ENTER to select the music file to be played.

6 Press \blacktriangleright /II.
Playback starts.

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.

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.



■ iPod operation


Operation buttons	Function
MODE	Switch between the Remote mode and the Direct mode
△ ▽	Cursor operation (Up/Down)
◀	Display the menu / Return to the previous menu
ENTER or ▶	Enter settings/playback
⏮, ⏭	Skip search (cue)
⏪, ⏩	Manual search (fast-reverse/fast-forward)
▶/	Playback / Pause
■	Stop
REPEAT ↺	Repeat playback (🔗 p. 49)
RANDOM ✂	Shuffle playback (🔗 p. 49)

■ Switching the display

During playback, press INFO.

- Switching between the title name, artist name and album name.

Disconnecting the iPod

- 1 Press **POWER**  to set the standby mode.
- 2 Disconnect the iPod from the USB port.

Charging the iPod

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

■ Standby charging

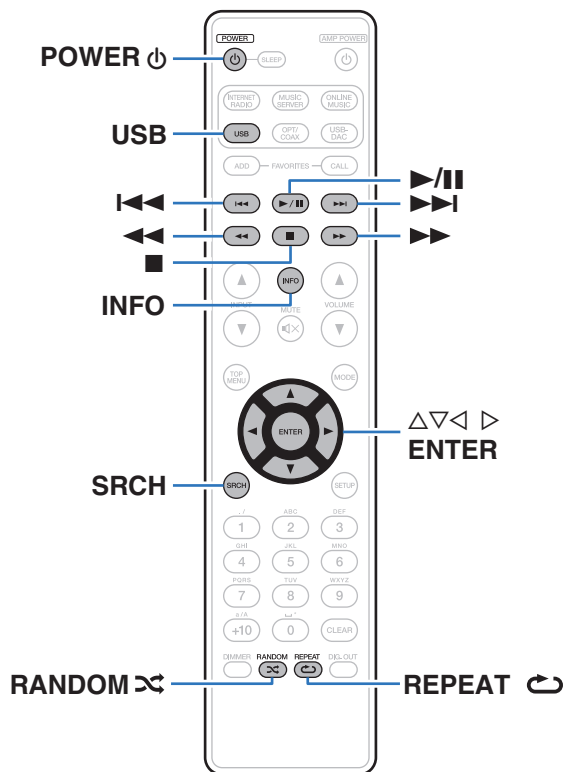
If the unit enters power standby mode while the iPod/iPhone is charging, the unit will switch to standby charging mode, and the iPod/iPhone will continue to be charged. When in standby charging mode, the power display light turns orange.

When the iPhone/iPod is fully charged, the unit automatically stops supplying power for charging and enters normal power standby mode, and the power display light 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** (Windows Media Audio)
 - **MP3** (MPEG-1 Audio Layer-3)
 - **WAV**
 - **AAC** (Advanced Audio Codec)
 - **FLAC** (Free Lossless Audio Codec)
 - **ALAC** (Apple Lossless Audio Codec)
 - **AIFF**
 - **DSD**



Playing files stored on USB memory devices

- 1 Press USB to switch the input source to “USB”.**
- 2 Use Δ / ∇ to select the file or folder, then press ENTER.**
- 3 Use Δ / ∇ to select the file, then press ENTER.**
Playback starts.



- If the USB memory device is divided into multiple partitions, only the top partition can be selected.
- 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.
- Playback is not possible when connected via the front panel's USB port.
- Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices.
- Files can be read from a USB memory device by connecting the device to this unit. The file reading time varies according to the amount of data saved on the USB memory device. Several minutes may be required to read the maximum permissible number of files and folders.
- 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.




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.

Removing the USB memory device

1 Press POWER to set the standby mode.

2 Check that the communication indicator on the USB memory device is not flashing, then pull out the USB memory device.

NOTE

Do not remove the USB memory device from the unit when the USB memory communication indicator is flashing. Doing so may damage the USB memory device, or may corrupt the files recorded on the USB memory device.



■ USB operation

Operation buttons	Function
△ ▽	Cursor operation (Up/Down)
ENTER or ▷	Enter settings/playback
◀	Display the menu / Return to the previous menu
SRCH	Character search*1
⏮ ⏭	Skip search (cue)
⏪, ⏩	Manual search (fast-reverse/fast-forward)
▶/	Playback / Pause
■	Stop
REPEAT ↺	Repeat playback (🔍 p. 53)
RANDOM 🎲	Random playback (🔍 p. 53)*2

*1 Press SRCH, then press ENTER to select the first letter you want to search mode.

*2 During random playback of files stored on a USB memory device, each time playback of a track is completed, another track is randomly selected for playback from tracks in the folder.



If the list is not in alphabetical order, you may not be able to perform a character search.

■ Switching the display

During playback, press INFO.

- The display switches between the track name, artist name, album name and file type/bit rate.

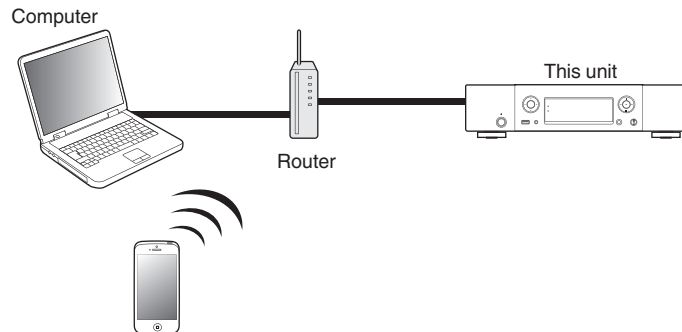


AirPlay function

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



- Source input will be switched to “AirPlay” when AirPlay playback is started.
- You can stop AirPlay playback by pressing <1 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.
- When you connect iPod to the USB connector during AirPlay playback, AirPlay playback stops.



Playing iPhone, iPod touch music with this unit

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 Turn this unit ON.

Set “Network Control” to “On” for this unit. (👉 p. 85)

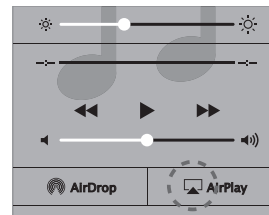
NOTE

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

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

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

4 Tap the AirPlay icon 📺.



5 Check the speakers 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. 85)

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.**

NOTE

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

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



Perform iTunes playback operations with the remote control unit of this unit

With this unit's remote control unit, you can perform iTunes song play, pause, and auto search (cue) operations.

- 1** Select the “Edit” - “Preferences...” in the iTunes menu.
- 2** Select “Devices” in the iTunes setting window.
- 3** Check “Allow iTunes audio control from remote speakers”, and then click “OK”.



Remote play function

The relevant devices should comply with the DLNA (Digital Living Network Alliance) Ver. 1.5 standard. 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.

At this time, the operations are performed using the computer, smartphone or portable audio player.




- 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 	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. 102).



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. 39).

■ 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. 24) and "Network" (📖 p. 85).



■ 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 NA8005".

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.

NOTE

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

■ To exit Remote Play

1 Press ◀.

- The Remote Play mode ends.



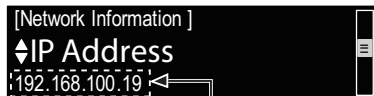
Web control function

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. 24)
- 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.

- 1 Switch the “Network Control” setting to “On”.
(👉 p. 85)
- 2 Check the IP address of this unit with “Network Information”.

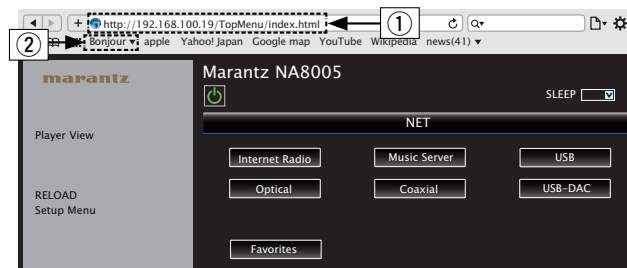


Checking the IP address.

- 3 Start up the web browser.

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

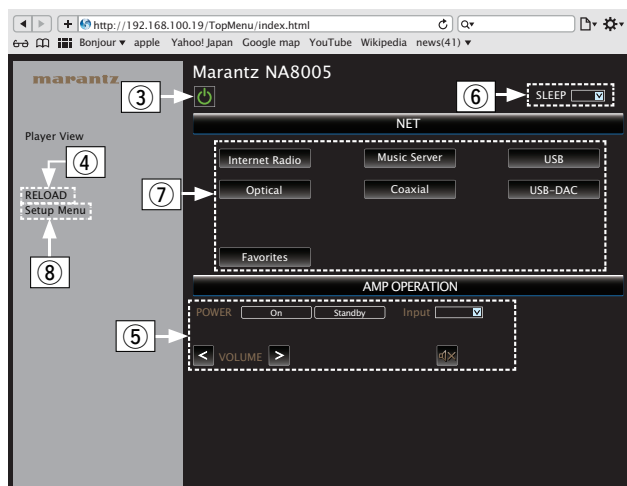
For example, if the IP address of this unit is “192.168.100.19”, enter “http://192.168.100.19”.



- ① Entering the IP address.
 - 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. 85) is set to “Off”, turning the power on/off changes 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.



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

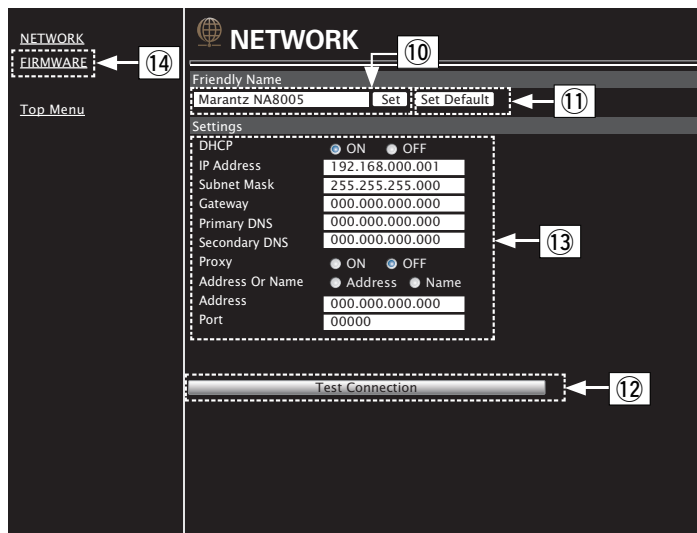


- ③ Click when you perform a power operation of the unit.
- ④ Click when you update to the latest information. Normally, there is a change to the latest information each time you operate. When operating from the main unit, click this or else the screen will not be updated.
- ⑤ Click to operate the Marantz amp connected by Remote connector cable. (p. 28)
- ⑥ Click “v” to set the sleep timer function.
- ⑦ Click a button to change the input source.
- ⑧ Click when you operate the setup menu.



6 Operate.

[Network Setting]



Friendly Name setting

- ⑩ To change the Friendly Name, enter the new name in the text box and click “Set”.
- ⑪ To reset the Friendly Name, click “Set Default”.

Network connection settings

- ⑫ Click to connect using the newly applied settings.
- ⑬ When changing DHCP/proxy settings, input or select for each item.
- ⑭ Click when you update firmware. (☞ p. 83)

NOTE

- 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.



■ Update on web screen

Firmware can be updated using the “Web control function” (☞ p. 62). “Web control function” (☞ p. 62) settings must be completed in advance on a computer belonging to the same network. For information on obtaining update files, please contact our customer service center.

1 Click ④ from step 5 for the “Web control function” (☞ p. 62).

The computer 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】

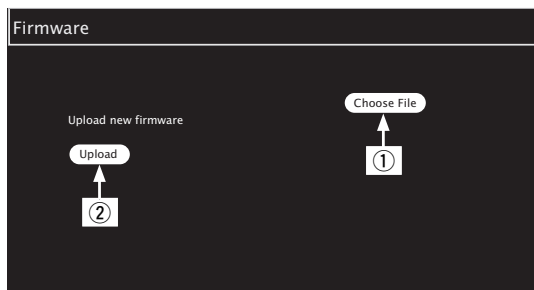


【The unit's screen display】

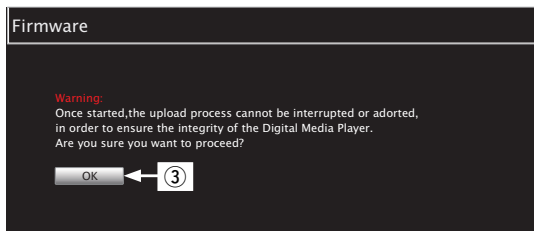
A screenshot of the unit's screen display. It shows the text "IpAddress" in a small font, followed by the IP address "192.168.xxx.xxx" in a larger, bold font. The background is black.



- 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.



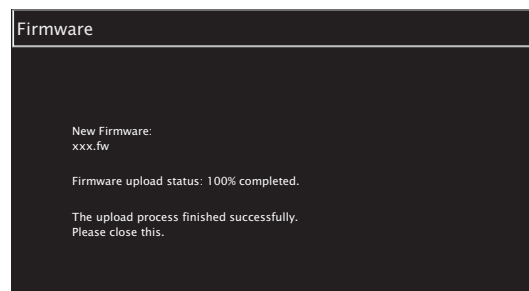
- 3** Click the “OK” (③) button.
Updating will begin.



NOTE

When the following screen is displayed, updating is complete.

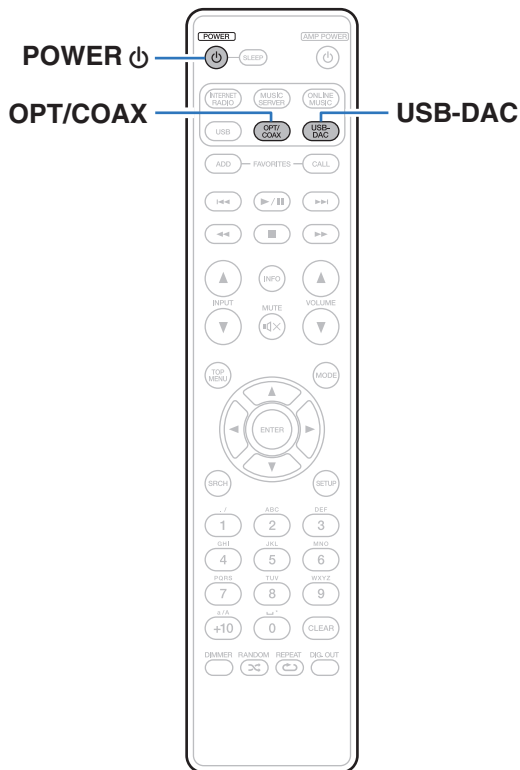
- 4** When the following screen is displayed, updating is complete.



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



Using as a D/A converter (USB-DAC)



Digital audio signals input from an external device or computer into this unit can be converted and output as analog signals using this unit's D/A converter. (D/A converter function)

- **DSD is a registered trademark.**
- **Microsoft, Windows XP, Windows Vista, Windows 7 and Windows 8 are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.**
- **Apple, Macintosh and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries.**



Connecting and playing back from a computer (USB-DAC)

You can enjoy high-quality audio playback from the D/A converter built in to this unit by inputting PCM signal or DSD signal music files into this unit from a computer via USB connection.

- Before USB connecting this unit to your computer, install the driver software in your computer.
- Drivers do not need to be installed for Mac OS.
- Also, you can use whichever commercially available or downloadable player software you like to playback files on your computer.

■ Computer (recommended system)

OS

- Windows® Vista, Windows 7 or Windows 8
- Mac OS X 10.6.3 or later

USB

- USB 2.0: USB High speed/USB Audio Class Ver.2.0

Windows OS Installing the dedicated driver (🔗 p. 68)

Mac OS Audio Device Settings (🔗 p. 74)

■ Installing the dedicated driver (Windows OS only)

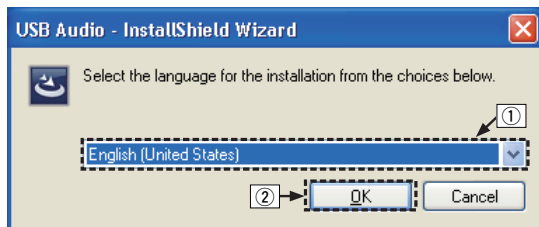
□ Installing the driver software

- 1 Disconnect the USB cable between your PC and the unit.**
 - The driver software cannot be installed correctly if your PC is connected to the unit by a USB cable.
 - If the unit and your computer are connected by a USB cable and the computer is switched on before installation, disconnect the USB and restart the computer.
- 2 Download the dedicated driver from the “Download” section of the NA8005 page of the Marantz website onto your PC.**
- 3 Unzip the downloaded file, select the 32-bit or 64-bit exe file that matches your Windows operating system, and double-click the file.**

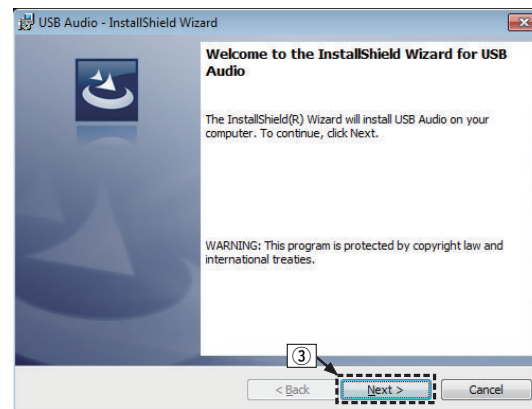


4 Install the driver.

- ① Select the language to use for the installation.
- ② Click “OK”.



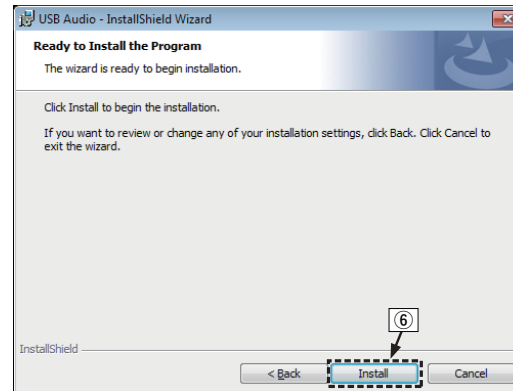
- ③ The wizard menu is displayed. Click “Next”.



- ④ Read the Software Licensing Agreement, and click “I accept the terms in the license agreement”.
- ⑤ Click “Next”.



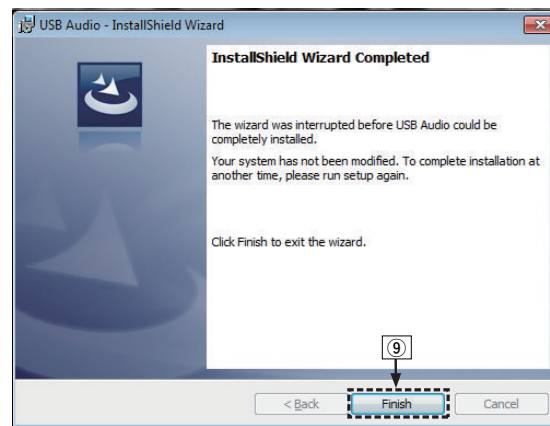
- ⑥ Click “Install” on the installation start dialog.
 - The installation starts. Do not perform any operation on the PC until the installation is completed.



- ⑦ In the Windows security dialog, select “Always trust software from “DandM Holdings Inc.””.
- ⑧ Click “Install”.



- ⑨ When the installation is completed, click “Finish”.



5 With the unit power off, connect the unit and PC using a USB cable (sold separately).

- For the connection procedure, refer to the “Connecting a PC or Mac” (🔗 p. 21) section.



6 Press POWER .

- When the unit power is turned on, the PC automatically finds and connects to the unit.

7 Press USB-DAC to change the input source to “USB-DAC”.

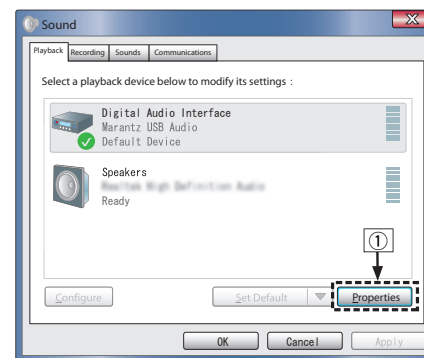
8 Checking the installed driver.

- ① Click the “Start” button and click “Control Panel” on the PC.
 - The control panel setting list is displayed.
- ② Click the “Sound” icon.
 - The sound menu window is displayed.
- ③ Check that there is a checkmark next to “Default Device” under in “Digital Audio Interface” of the “Playback” tab.
 - When there is a checkmark for a different device, click “Marantz USB Audio” and “Set Default”.

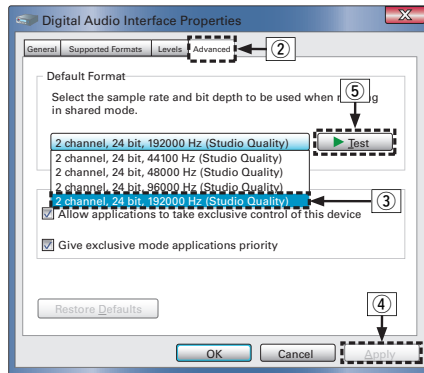
9 Checking audio output.

Outputs a TEST signal from the PC and checks the audio output from the USB-DAC function.

- ① Select “Digital Audio Interface” and click “Properties”.
 - The Digital Audio Interface Properties window is displayed.



- ② Click the “Advanced” tab.
 - ③ Select the sampling rate and bit rate to be applied to the D/A converter.
 - It is recommended that “2channel, 24 bit, 192000 HZ (Studio Quality)” is selected.
 - ④ Click “Apply”.
 - ⑤ Click “Test”.
- Check that audio from this unit is output from the PC.

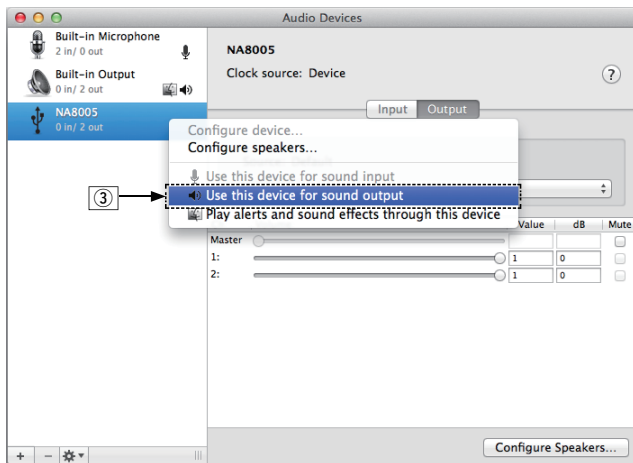
**NOTE**

- The dedicated driver must be installed in the PC before this unit is connected to a PC. Operation will not occur correctly if connected to the PC before the dedicated driver has been installed. Moreover, if the PC is running Windows XP as its OS, the PC's speed will decrease significantly, and a PC restart may be required.
- Operation may fail in some PC hardware and software configurations.

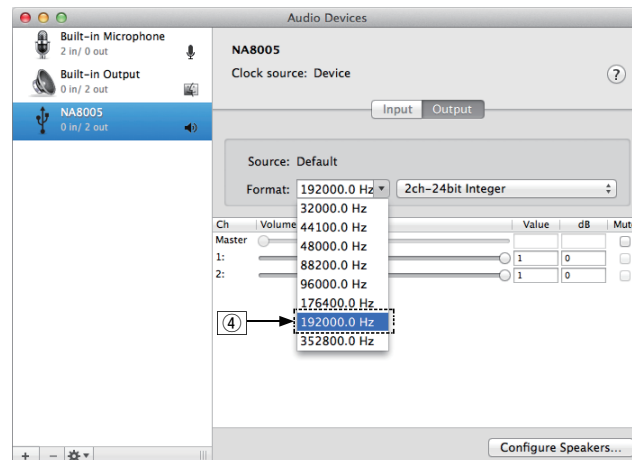


■ Audio Device Settings (Mac OS X only)

- ① Move the cursor to “Go” on the computer screen, and then click “Utilities”.
 - The utility list is displayed.
- ② Double-click “Audio MIDI Setup”.
 - The “Audio Devices” window is displayed.
- ③ Check that “Use this device for sound output” is checked in “NA8005”.
 - If a different device is checked, select and “Secondary click” on “NA8005”, and then select “Use this device for sound output”.



- ④ Select the “NA8005” format.
 - It is normally recommended to set the format to “192000.0 Hz” and “2ch-24 bit Interger”.



- ⑤ Click “Quit Audio MIDI Setup”.



Connect and playback from a digital device (Coaxial/Optical)

1 Press OPT/COAX to select the input source to “Coaxial” or “Optical”.

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

“Coaxial
PCM xxxx kHz” or “Optical
PCM xxxx kHz”

(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. 100).

NOTE


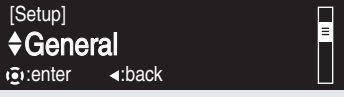
- Do not input non-PCM signals, such as Dolby Digital, and DTS. This causes noise and could damage the speakers.
- If the sampling frequency switches, such as from A mode to B mode in a CS broadcast, muting may operate for 1 – 2 seconds, cutting the sound.



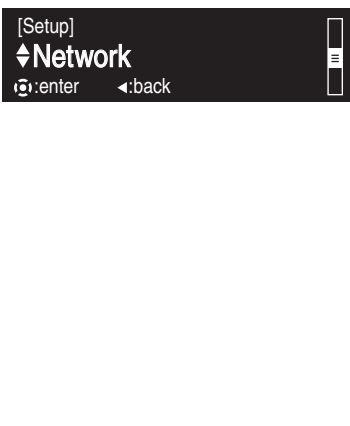
Menu map

For menu operations, see the following page.

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

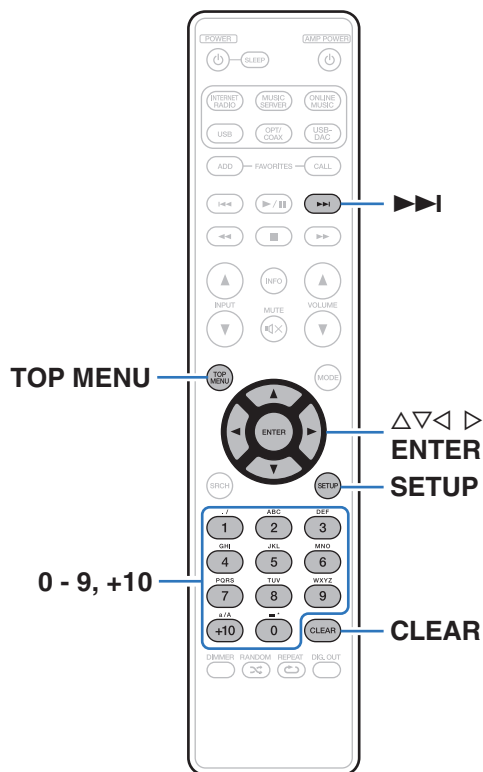
Setting items	Detailed items	Description	Page
Quick Setup 	–	Performs the network settings using a Wizard style window. For details on the operations, see the separate “Quick Start Guide”.	–
General 	Language	Sets the language for display the menu.	82
	Auto-Standby	Sets the unit power to standby when the unit is not in use.	82
	Firmware	Set whether or not to check for firmware update, update the firmware, and display update and upgrade notifications.	83
	Update	Update the firmware of this unit.	83
	Notifications	Set the Update, Upgrade and Alerts notification on/off.	83
	Add New Feature	Display new features that can be downloaded to this unit and perform an upgrade.	84



Setting items	Detailed items	Description	Page
	Network Information	Displays various information about the network.	85
	Network Control	Performs the on/off settings for the network function when in standby mode.	85
	Friendly Name	Edits a name displayed on the Internet.	85
	Settings	Make settings for wired LAN connection.	86
	DHCP (On) or DHCP (Off)	Performs the DHCP setting.	86
	IP Address *	Performs the IP address setting.	86
	Subnet Mask *	Performs the subnet mask setting.	86
	Gateway *	Performs the gateway setting.	86
	Primary DNS *	Performs the primary DNS setting.	86
	Secondary DNS *	Performs the secondary DNS setting.	86
	Proxy	Performs the proxy setting.	87
	Test Connection	Used to check the network connection.	87

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





■ Menu operation

1 Press **SETUP** while playback is stopped.

The menu is displayed on the display.

2 Use $\Delta \nabla$ to select the menu to be set or operated, then press **ENTER**.

3 Use $\Delta \nabla$ 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 <small>./</small>	1 . @ - _ / :	6 <small>MNO</small>	m n o M N O 6
2 <small>ABC</small>	a b c A B C 2	7 <small>PQRS</small>	p q r s P Q R S 7
3 <small>DEF</small>	d e f D E F 3	8 <small>TUV</small>	t u v T U V 8
4 <small>GHI</small>	g h i G H I 4	9 <small>VWXYZ</small>	w x y z W X Y Z 9
5 <small>JKL</small>	j k l J K L 5	0 <small>CLR</small>	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.

Language

Sets the language for display the menu.

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

Auto-Standby

When this unit is in the stop state and there is no input signal and operation for 15 minutes, it automatically enters the standby mode.

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



- The auto standby function does not operate when the input source is "iPod" (direct mode).
- When iPod is being charged, this unit enters the power standby mode after charging.



Firmware

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

■ Update

- In order to update the firmware, the environment and settings required for connecting to broadband internet are needed. (🔧 p. 25)
- Perform the firmware update operation after at least 2 minutes has elapsed since turning this unit's power on.

Check For Update: Check for firmware updates.

Update Start:

Execute the update process. When the update starts, the menu screen is shut down. During the update, the progress is shown on the display.



This unit automatically retries updating if updating fails.

■ 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.

Connect to broadband Internet when using this function. (🔧 p. 24)

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

In order to add new functions, the environment and settings required for connecting to broadband internet are needed. (☞ p. 25)

Perform the add new feature operation after at least 2 minutes has elapsed since turning this unit's power on.

Upgrade Status:

Display a list of the additional functions provided by the upgrade.

Upgrade Start:

Execute the upgrade process.

- If the upgrade is not successful, an error message identical to those in "Update" (☞ p. 83) will appear on the display. Check the settings and network environment and then perform the upgrade again.

Upgrade ID:

The ID number shown on this screen 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. 24)
- 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.
- When usable new firmware is released with "Update" or "Add New Feature", a notification message is displayed on the menu screen. When you do not want to be notified, set "Update" (☞ p. 83) and "Upgrade" (☞ p. 83) to "Off".



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

Displays network information.

Friendly Name / DHCP On or Off / IP Address / MAC Address

Network Control

Enables network communication in standby power mode.

On: Network is on during standby. Main unit operable with a network compatible controller.

Off (Default): Suspend network function during standby.



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

NOTE

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


Friendly Name

The Friendly Name is the name of this unit displayed on the network.

■ 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. 80).
- The default Friendly Name on first use is “NA8005”.

■ Default

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



Settings

Configure the proxy settings and IP address.

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

■ 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, input it at “Primary DNS”. If two or more DNS are provided by your provider, enter both “Primary DNS” and “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. 24)
- If you do not understand about Internet connection, contact your ISP (Internet Service Provider) or the store from which you purchased your computer.

■ Test Connection

Test the connection.



Contents

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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. 33)
- Press the DIMMER button to turn the display off. (👉 p. 33)

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

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

I want to playback WAV files

- This unit can playback WAV files that are stored on a USB memory device. (👉 p. 51)

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, App or the web control function.





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.	<u>29</u>
	• This unit is in standby mode. Press  on the unit or POWER  on the remote control.	<u>31</u>
Power automatically turns off.	• The sleep timer is set. Turn on the power again.	<u>33</u>
	• The Auto Standby mode is set. The Auto Standby mode switches the unit to standby mode when the unit is not operated for approximately 30 minutes. To disable Auto Standby mode, set "Auto-Standby" on the menu to "Off".	<u>82</u>



■ 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>6</u>
	• Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°.	<u>7</u>
	• Remove any obstacle between this unit and the remote control unit.	—
	• Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks.	<u>6</u>
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the set to a place in which the remote control sensor will not be exposed to strong light.	—
	• When using a 3D video device, the remote control unit of this unit may not function due to effects of infrared communications between units (such as TV and glasses for 3D viewing). In this case, adjust the direction of units with the 3D communications function and their distance to ensure they do not affect operations from the remote control unit of this unit.	—
	• When using this unit independently, set the switch to "INTERNAL".	<u>28</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>33</u>



■ No sound comes out



Symptom	Cause / Solution	Page
No sound is produced. Or sound is distorted.	• Check the connections for all devices.	<u>17</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.	—
Sound is interrupted during playback of tracks saved on a computer.	• Do not start applications other than the player software while playing music on your computer.	—



■ 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.	23
	• 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.	24
	• 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.	56
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.	—
iTunes cannot be played back through the remote control unit.	• Enable the “Allow iTunes audio control from remote speakers” setting on iTunes. Then, you can perform playback, pause, and skip operations through the remote control unit.	—



■ 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>22</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>51</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>51</u>
	<ul style="list-style-type: none"> 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. 	24
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. 	35
	<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. 	86
	<ul style="list-style-type: none"> To obtain the IP address manually, set the IP address and proxy on this unit. 	86
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. 	35
	<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
This unit is not recognized by my computer.	• Check the OS of your computer.	21
	• When your computer is running on Windows, a dedicated driver software should be installed.	21
Files stored on a computer cannot be played.	• Files are stored in a non-compatible format. Record in a compatible format.	102
	• 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.	39
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.	62
Files on PC or NAS are not displayed.	• Files of a type not supported by this unit are not displayed.	102
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.	68
	• If connection is restricted, set audio equipment as the connection target.	—
When a music server file registered to the Favorite list is called up, the next track in the same folder may not be played back.	• When a file that is played back by Remote play is registered in the Favorite list, only that file is played back.	—



■ PC or Mac files cannot be played back

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>75</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 settings on your computer or player software. 	<u>75</u>
	<ul style="list-style-type: none"> If the computer you use is "Mac OS", please check if the "NA8005" format is set below "192000.0 Hz" using the "Audio MIDI Setup". 	—

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

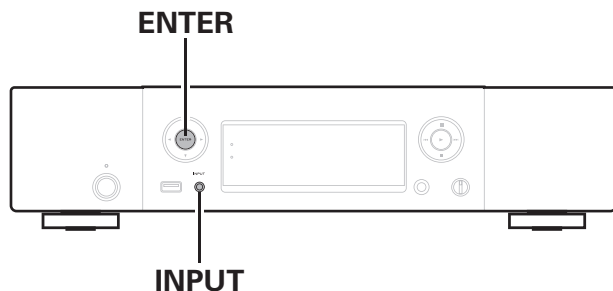
Symptom	Cause / Solution	Page
"Signal Unlock" is displayed.	<ul style="list-style-type: none"> When digital audio signals cannot be detected properly, "Signal Unlock" is displayed. 	<u>76</u>
"Unsupported" is displayed.	<ul style="list-style-type: none"> "Unsupported" is displayed when audio signals that are not supported by this unit are input. Check the audio output signal format from your digital device. 	<u>76</u>



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 Pull the power cord out of the power outlet.**
- 2 Plug the power cord into a power outlet while pressing ENTER and INPUT on the main unit.**
- 3 When the power indicator lights, release the buttons.**
“Initialized” appears in the display.



If “Initialized” does not display in step 3, start over from step 1.



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 (pixels) of an album artwork exceeds 500 × 500 (WMA/MP3/WAV/FLAC) or 349 × 349 (MPEG-4 AAC), then music may not be played back properly.

■ Specifications of supported files

	Sampling frequency	Bit length	Extension
WMA (Windows Media Audio)*1	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32 – 320 kbps	.mp3
WAV	32/44.1/48/88.2/96/ 176.4/192 kHz	–	.wav
MPEG-4 AAC*1	32/44.1/48 kHz	16 – 320 kbps	.aac/ .m4a/ .mp4
FLAC (Free Lossless Audio Codec)	32/44.1/48/88.2/96/ 176.4/192 kHz	–	.flac
ALAC (Apple Lossless Audio Codec)*2 *3	32/44.1/48/ 88.2/96 kHz	–	.m4a
AIFF	32/44.1/48/88.2/96/ 176.4/192 kHz	–	.aif/ .aiff
DSD (2-channel)	2.8 MHz – 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>
- *3 Only files recorded in stereo can be played back.

NOTE

Variable Bit rate (VBR) is not supported (when playback is possible, the time display in the display window will speed up and slow down).



■ 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

■ Specifications of supported files

□ USB-DAC

	Sampling frequency	Bit length
DSD (2-channel)	2.8 MHz/5.6 MHz	1 bit
Linear PCM (2-channel)	32/44.1/48/88.2/96/ 176.4/192kHz	16/24 bits

NOTE

Digital audio output is stopped during playback of the DSD signals and linear PCM signals that have a 32 kHz sampling frequency.

□ Coaxial/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

Internet Radio refers to radio broadcasts distributed over the Internet. Internet Radio stations from around the world can be received.

This unit is equipped with the following Internet radio functions:

- Stations can be selected by genre and region.
- Internet radio stations in MP3 and WMA (Windows Media Audio) format can be listened to.
- Your favorite radio stations can be registered by accessing an exclusive Marantz Internet radio URL from a Web browser on a computer. The function is managed for individual users, so you must provide your MAC or e-mail address.
Exclusive URL: <http://www.radiomarantz.com>
- The radio station database service may be suspended or be otherwise unavailable without notice.
- This unit's Internet radio station list is created using a radio station database service (vTuner). This database service provides a list edited and created for this unit.

■ Playable broadcast station specifications

	Sampling frequency	Bit length	Extension
WMA (Windows Media Audio)	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	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 (pixels) of an album artwork exceeds 500 × 500 (WMA/MP3/WAV/FLAC) or 349 × 349 (MPEG-4 AAC), 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.

■ Specifications of supported files

	Sampling frequency	Bit length	Extension
WMA (Windows Media Audio)*1	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32 – 320 kbps	.mp3
WAV	32/44.1/48/88.2/96/ 176.4/192 kHz	–	.wav
MPEG-4 AAC *1	32/44.1/48 kHz	16 – 320 kbps	.aac/ .m4a/ .mp4
FLAC (Free Lossless Audio Codec)	32/44.1/48/88.2/96/ 176.4/192 kHz	–	.flac
ALAC (Apple Lossless Audio Codec)*2 *3	32/44.1/48/ 88.2/96 kHz	–	.m4a
AIFF	32/44.1/48/88.2/96/ 176.4/192 kHz	–	.aif/ .aiff
DSD (2-channel)	2.8 MHz – 5.6 MHz	–	.dsf/ .dff



- *1 Only files that are not protected by copyright can be played on this unit.
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<http://www.apache.org/licenses/LICENSE-2.0>
- *3 Only files recorded in stereo can be played back.

NOTE

Variable Bit rate (VBR) is not supported (when playback is possible, the time display in the display window will speed up and slow down).



Explanation of terms

AirPlay

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

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.

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.

DLNA

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DSD (Direct-Stream Digital)

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

iTunes is the name of the multimedia player provided by Apple Inc. 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.

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".

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>

This product is protected by certain intellectual property rights of Nothing Else Matters Software and BridgeCo. Use or distribution of such technology outside of this product is prohibited without a license from Nothing Else Matters Software and BridgeCo or an authorized subsidiary.



Windows Media Player Ver. 11

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, MP3, WAV and other files.

WMA (Windows Media Audio)

This is the 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 in a disc. A larger number means higher sound quality, but also means a larger file size.



Trademark information

Made for



iPod



iPhone



AirPlay

“Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone, may affect wireless performance.

AirPlay, the AirPlay logo, iPad, iPhone, iPod, iPod classic, iPod nano, iPod shuffle and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

- Individual users are permitted to use iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch for private copy and playback of non-copyrighted contents and contents whose copy and playback is permitted by law. Copyright infringement is prohibited by law.



Specifications

■ Audio performance

• Analog output

Channels:	2-channels
Playable frequency range:	2 Hz – 96 kHz
Playable frequency response:	2 Hz – 50 kHz (–3 dB) (DSD mode, PCM sampling frequency: 192 kHz) 2 Hz – 20 kHz (PCM sampling frequency: 44.1 kHz)
S/N:	110 dB (Audible range)
Dynamic range:	106 dB (DSD/192 kHz) (Audible range) 101 dB (44.1 kHz)
Harmonic distortion:	0.0012 % (1 kHz, Audible range)
Output level	
Unbalanced output:	2.3 V RMS (PCM) 1.7 V RMS (DSD)
Headphone output:	30 mW/32 Ω/ohms (variable maximum)

• Digital output

Coaxial:	0.5 V _{p-p} / 75 Ω/ohms
Optical :	-15 – -21 dBm

• Digital input

Coaxial:	0.5 V _{p-p} / 75 Ω/ohms
Optical :	-27 dBm or lator
USB (Front):	USB Type A (USB 2.0 High speed)
USB (Rear):	USB Type B (USB 2.0 High speed)



■ General

Power supply voltage/frequency: AC230 V, 50/60 Hz

Power consumption (EN60065) : 30 W

Power consumption in standby mode: 0.4 W

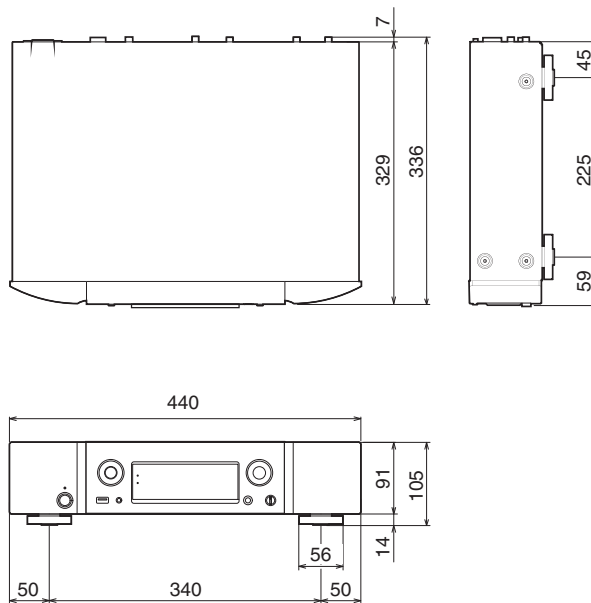
**Power consumption in “Network Control”
– “On” mode:** 4 W

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



■ Dimensions

Unit : mm



■ Weight : 7.2kg



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License

**This section describes software license used for this unit.
To maintain the correct content, the original (English) is used.**

■ Boost

<http://www.boost.org/>

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■ FastDelegate

<http://www.codeproject.com/KB/cpp/FastDelegate.aspx>

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libvorbis

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Tremolo

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■ Mersenne Twister

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

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■ zlib

<http://www.zlib.net/>

zlib.h -- interface of the "zlib" general purpose compression library version 1.2.3, July 18th, 2005

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■ cURL

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