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marantz®

Network Integrated Amplifier **PM7000N**

Front panel

Rear panel

Remote control
unit

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Owner's Manual



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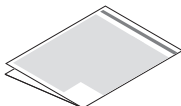
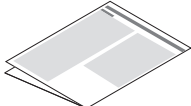
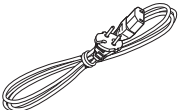
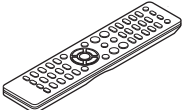


Thank you for purchasing this Marantz product.

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

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

Accessories

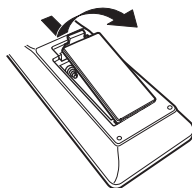
Check that the following parts are supplied with the product.

| | | | |
|--|---|---|--|
|  Quick Start Guide |  Safety Instructions |  Cautions on Using Batteries |  Notes on radio |
|  Power cord |  Remote control unit (RC004PM) |  R03/AAA batteries |  External antennas for Bluetooth/wireless connectivity |

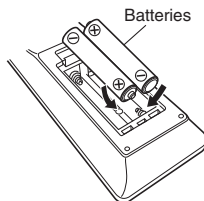


Inserting the batteries

- 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.



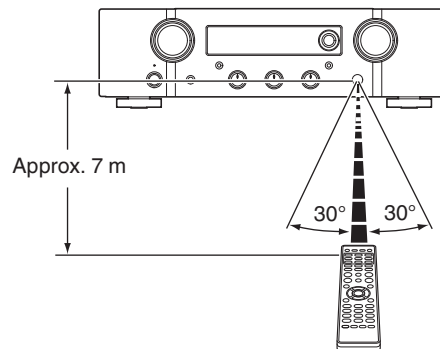
- 3 Put the rear lid back on.

NOTE

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

Operating range of the remote control unit

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



Features

High quality sound

- **All-discrete current feedback amplifier**

Marantz's proprietary current feedback circuit using discrete components is adopted in the power amplifier. The high-speed amplifier uses technology developed for the higher-grade amplifiers.

- **HDAM®SA3**

This unit contains the HDAM®SA3 developed for the higher-grade amplifiers. HDAM®SA3 is used in the current feedback power amplifier circuits of this unit.

- **Improved instantaneous current supply**

It's well known that amplifiers with the same specifications can have different sound quality. The secret to Marantz's high quality is thought to be the performance of the speaker driver. The power amplifier of this unit is capable of delivering an instantaneous current of over 32 A, providing powerful speaker performance.

- **Short power line layout**

A short power line layout that integrates the power circuit and the output level of the power amplifier is used to improve instantaneous current supply.

This layout uses the minimum necessary lines with a large current, arranged symmetrically on the left and right.

- **Newly developed phono equalizer circuit**

A new phono equalizer circuit developed for the PM7000N is used in the phono equalizer amplifier for the MM cartridge.

- **Double shielded toroidal transformer**

This unit features a toroidal transformer that produces less vibration and magnetic leakage flux compared to conventional power transformers.

- **Large-capacitance block electrolytic capacitor**

The power circuit of the power amplifier contains a new high-capacity 15000 μ F condenser developed with concepts used in the higher-grade amplifiers.



- **Support for High Quality Audio playback via USB and networks**

This unit supports the playback of high resolution audio formats such as DSD (2.8/5.6 MHz) and WAV/FLAC/Apple Lossless Audio Codec (ALAC) files up to 192 kHz/24 bits.

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

In order to minimize noise from peripheral circuitry that could interfere with the audio signal, this unit is equipped with a function to turn off the network and USB memory playback, Wi-Fi and Bluetooth circuit, as well as a function to turn off the display.

High performance

- **Tone control function**

This unit has a tone control function for adjustment of bass (low frequency) and treble (high frequency) sound to produce your preferred tone. (🔍 p. 68)

- **Supports a variety of devices with digital inputs**

Equipped with two optical digital inputs and one coaxial digital input to connect televisions and other devices with digital inputs. This unit also has an automatic playback function. When a device connected to this unit by digital connection is turned on, this unit automatically turns on and plays audio from the device.

- **Can be operated with the remote control of your TV**

By learning the infrared signal of the remote control of your TV, you can operate this unit with the remote control of the TV. (🔍 p. 81)

- **The device is equipped with a AirPlay® function in addition to network functions such as Internet radio etc.**

You can enjoy a wide variety of content, including listening to Internet Radio, playing audio files stored on your PC. This unit also supports Apple AirPlay which lets you stream your music library from an iPhone®, iPad®, iPod touch® or iTunes®.



- **Supports AirPlay 2® wireless audio**

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

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

- **Wireless connection with Bluetooth devices can be carried out easily**

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

- **Support for Gapless playback**

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

- **Compatible with the HEOS App* for performing basic operations of the unit with an iPad, iPhone or Android™ devices (Google, Amazon Kindle Fire)**

* Download the appropriate HEOS App for your iOS or Android devices. This unit needs to be connected to the same LAN or Wi-Fi (wireless LAN) network that the iPad, iPhone or Android devices are connected to.

- **HEOS provides streaming music from your favorite online music sources**



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

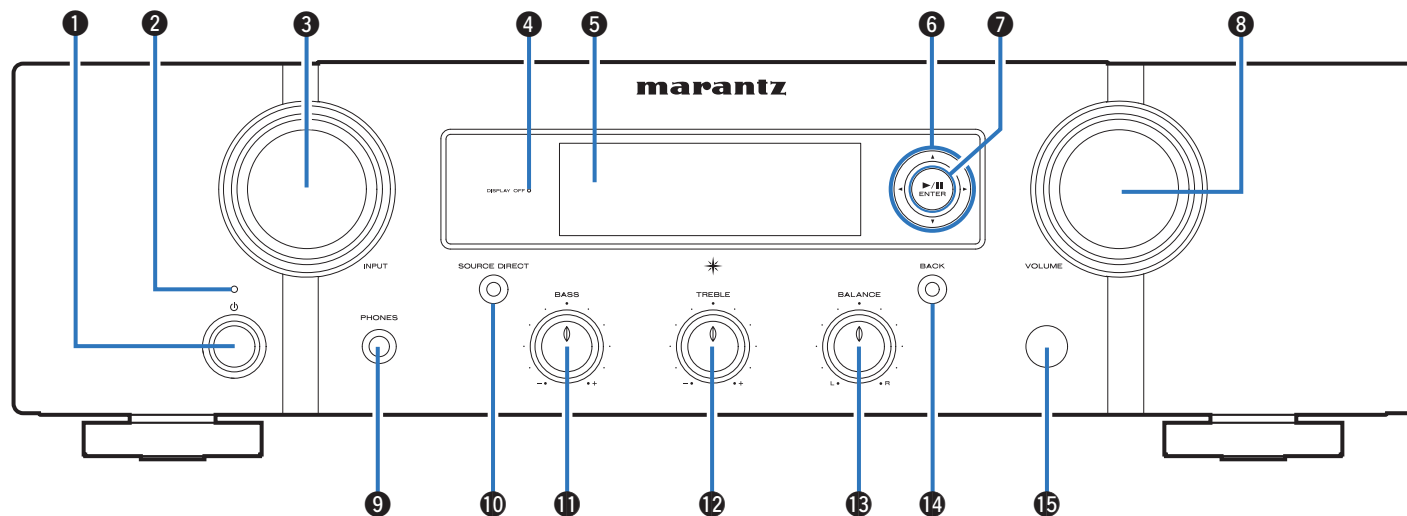
When multiple HEOS devices are connected to the same network, HEOS devices can be grouped to play back the same music on all devices simultaneously, or different music can be played on each separate HEOS device.

- **OLED (Organic Light Emitting Diode) display that can display 3 lines**
- **Equipped with auto standby mode function that reduces power consumption**



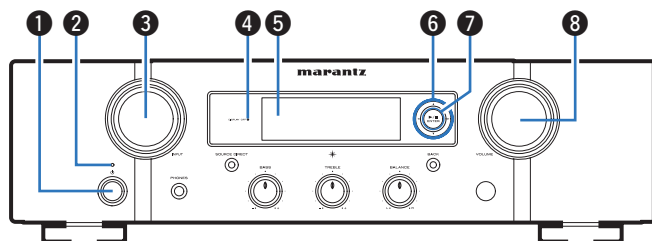
Part names and functions

Front panel



For details, see the next page.





❶ Power operation button (⏻)

This turns the power on/off (standby). (👉 p. 37)

❷ Power indicator

Lights as follows according to unit status:

- Not lit:
 - When powered on
- Red:
 - During normal standby (When “Auto-Play” is set to “Off” (👉 p. 80))
- Orange:
 - When “Auto-Play” is set to “On” (👉 p. 80)
 - When “Network Control” is set to “On” (👉 p. 87)

❸ INPUT SELECTOR knob

This switches input sources. (👉 p. 38)

❹ DISPLAY OFF indicator

This indicator lights up when the display is off. (👉 p. 69)

❺ Display

This displays various pieces of information.

❻ Cursor buttons (⏮⏭⏪⏩)

These select items.

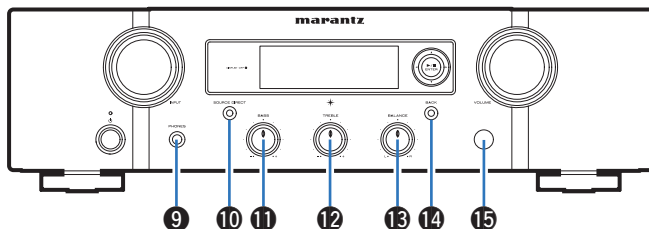
❼ Playback/Pause/ENTER button (▶||/ENTER)

Plays back and pauses tracks, and enters the selected content.

❽ VOLUME knob

Adjusts the volume. (👉 p. 38)





9 Headphones jack (PHONES)

Used to connect headphones.

When the headphones are plugged into this jack, audio will no longer be output from the speaker connectors or the PRE OUT connector.

NOTE

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

10 SOURCE DIRECT button/indicator

This turns source direct mode on/off. (p. 68)

11 BASS control knob

This setting adjusts the volume level for the bass. (p. 68)

12 TREBLE control knob

This setting adjusts the volume level for the treble. (p. 68)

13 BALANCE control knob

This adjusts the balance of the volume output from the left and right speakers. (p. 68)

14 BACK button

Returns to the previous item.

15 Remote control sensor

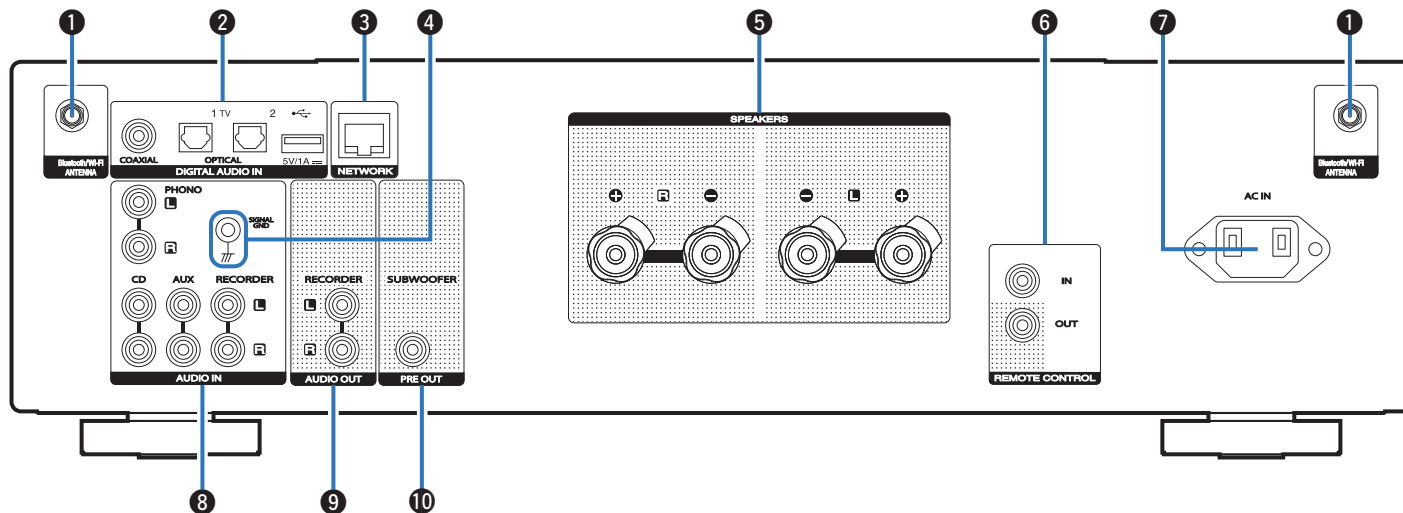
This receives signals from the remote control unit. (p. 7)



- 11, 12 and 13 can be adjusted when 10 is off (Source direct mode is off).

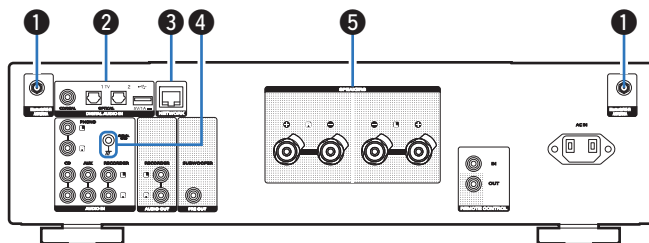


Rear panel



For details, see the next page.

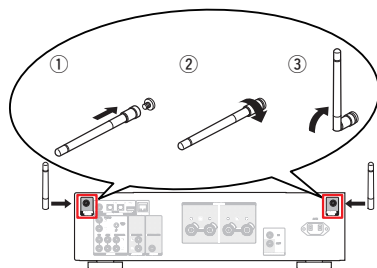




1 Bluetooth/wireless LAN antenna connectors

Used to connect the included external antennas for Bluetooth/wireless connectivity when connecting to a network via wireless LAN, or when connecting to a handheld device via Bluetooth. (☞ p. 33)

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



2 DIGITAL AUDIO IN connectors

- Used to connect devices equipped with digital audio output connectors. (☞ p. 29)
- This is used to connect USB storages (such as USB memory devices). (☞ p. 31)

3 NETWORK connector

Used to connect to a LAN cable when connecting to a wired LAN network. (☞ p. 32)

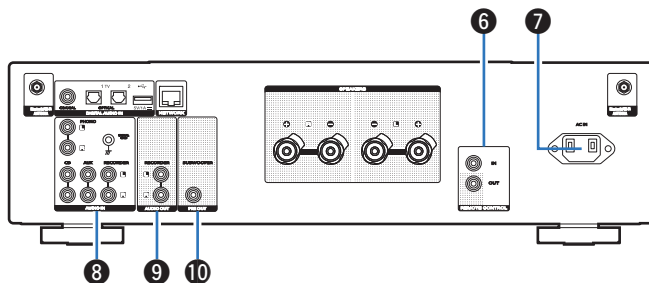
4 SIGNAL GND terminal

Used to connect a ground wire for the turntable. (☞ p. 27)

5 Speaker terminals (SPEAKERS)

Used to connect speakers. (☞ p. 24)





6 REMOTE CONTROL connectors

Used to connect to a Marantz audio device that is compatible with the remote control function. (👉 p. 34)

7 AC inlet (AC IN)

Used to connect the power cord. (👉 p. 35)

8 AUDIO IN connectors

Used to connect devices equipped with analog audio output connectors.

- “Connecting a playback device” (👉 p. 27)
- “Connecting a recording device” (👉 p. 28)

9 AUDIO OUT connectors

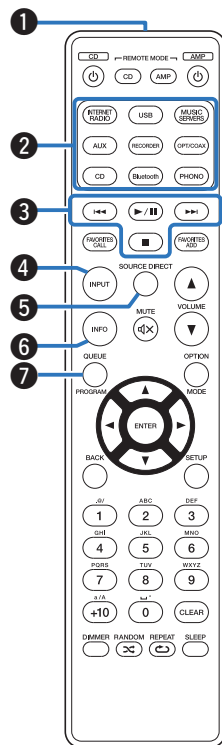
Used to connect the input connector of a recorder. (👉 p. 28)

10 PRE OUT connector

Used to connect a subwoofer with a built-in amplifier. (👉 p. 25)



Remote control unit



1 Remote control signal transmitter

This transmits signals from the remote control unit. (👉 p. 7)

2 Input source select buttons

These select the input source. (👉 p. 38)

3 System buttons

These perform playback related operations.

4 Input source select button (INPUT)

This switches input sources. (👉 p. 38)

5 SOURCE DIRECT button

This turns source direct mode on/off. (👉 p. 68)

6 Information button (INFO)

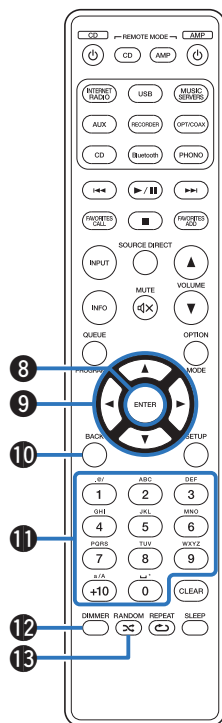
This switches the track information shown in the display during playback.

7 QUEUE button

This displays the queue.

- “Listening to Internet Radio” (👉 p. 39)
- “Playing back files stored on PC or NAS” (👉 p. 41)
- “Playing a USB memory device” (👉 p. 44)





8 ENTER button

This determines the selection.

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

These select items.

10 BACK button

Returns to the previous item.

11 Number/letter buttons (0 – 9, +10)

These enter letters or numbers into the unit. (👉 p. 77)

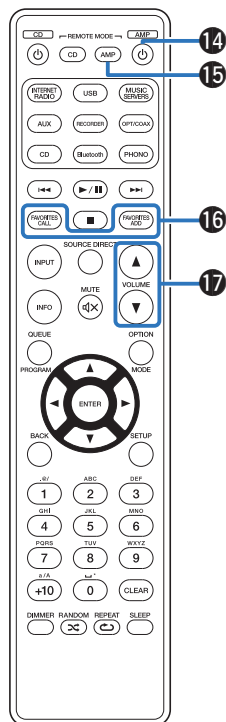
12 DIMMER button

Adjust the display brightness of this unit. (👉 p. 69)

13 RANDOM button (\boxtimes)

Switches the random playback.





14 Power operation button (AMP)



This turns the power on/off (standby). ( p. 37)

15 Remote mode select button (REMOTE MODE AMP)

Switches the remote control operating mode to this unit.

16 FAVORITES ADD / CALL buttons

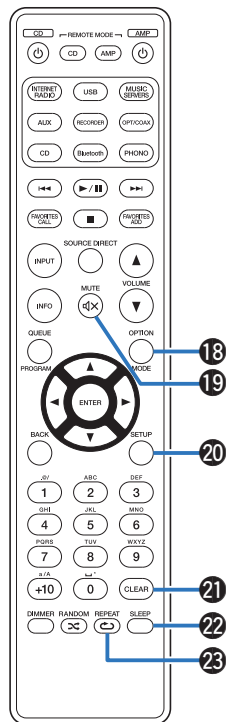
This allows you to register content to “HEOS Favorites” and call registered content.

- “Adding to HEOS Favorites” ( p. 66)
- “Playing back HEOS Favorites” ( p. 67)

17 VOLUME buttons ()

Adjusts the volume. ( p. 38)





18 OPTION button

- This displays the option menu on the display.



- An option menu is not displayed for some input sources.

19 MUTE button (🔇)

This mutes the output audio. (👉 p. 38)

20 SETUP button

The setting menu is displayed on the display. (👉 p. 76)

21 CLEAR button

This cancels the settings.

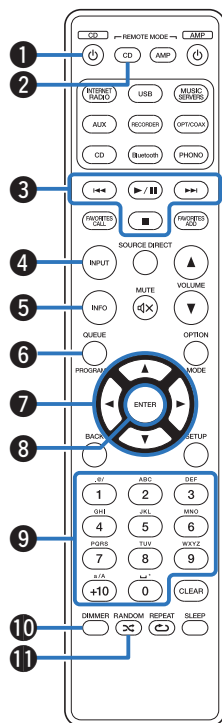
22 SLEEP button

This sets the sleep timer. (👉 p. 69)

23 REPEAT button (🔄)

Switches the repeat playback.





CD player operations

A Marantz CD player can be operated.

1 Power operation button (CD)

2 Remote mode select button (REMOTE MODE CD)

3 System buttons

- Skip buttons (|◀◀, ▶▶|)
- Play/pause button (▶/||)
- Stop button (■)

4 Input source select button (INPUT)

5 Information button (INFO)

6 PROGRAM button

7 Cursor buttons (△▽◀▶)

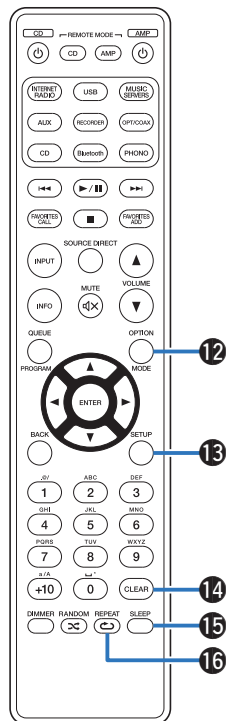
8 ENTER button

9 Number buttons (0 - 9, +10)

10 DIMMER button

11 RANDOM button (X icon)





- 12 **MODE** button
- 13 **SETUP** button
- 14 **CLEAR** button
- 15 **SLEEP** button
- 16 **REPEAT** button (↺)



- The remote control may not operate some products.



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| Connecting the power cord | 35 |

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.

| | |
|------------------------|---|
| Speaker cable |  |
| Subwoofer cable |  |
| Optical cable |  |
| Coaxial digital cable |  |
| Audio cable |  |
| LAN cable |  |
| Remote connector cable |  |



Connecting speakers

NOTE

- Disconnect this unit's power plug from the power outlet before connecting the speakers. Also, turn off the subwoofer.
- Connect so that the speaker cable core wires do not protrude from the speaker terminal. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other. "Protection circuit" (☞ p. 122)
- Never touch the speaker terminals while the power cord is connected. Doing so could result in electric shock.
- Use speakers with an impedance of 4 – 16 Ω /ohms.

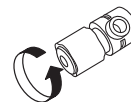
Connecting the speaker cables

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

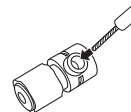
- 1** Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.



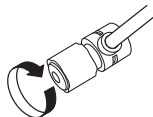
- 2** Turn the speaker terminal counterclockwise to loosen it.



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



4 Turn the speaker terminal clockwise to tighten it.

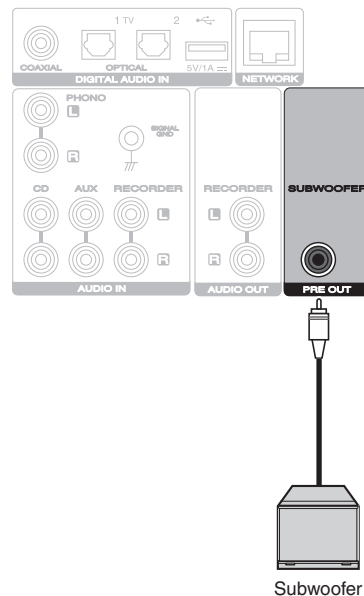


Spade lug connector

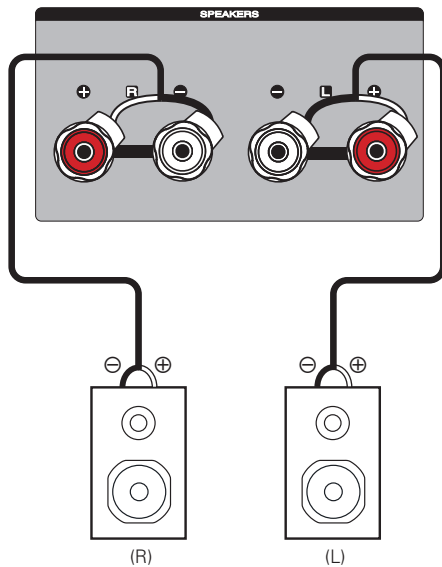


Connecting the subwoofer

Use a subwoofer cable to connect the subwoofer.



Connecting speakers

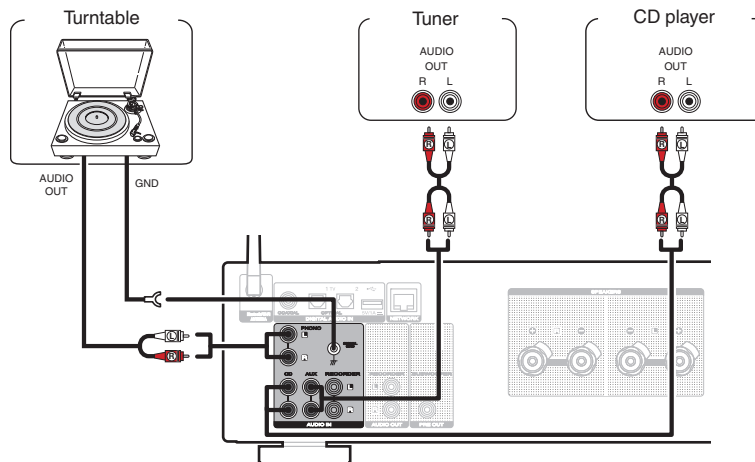


Connecting a playback device

You can connect turntables, tuners and CD players to this unit.

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

If you set this unit's input source to "PHONO" and accidentally increase the volume without connecting a turntable, you may hear a humming noise from the speakers.

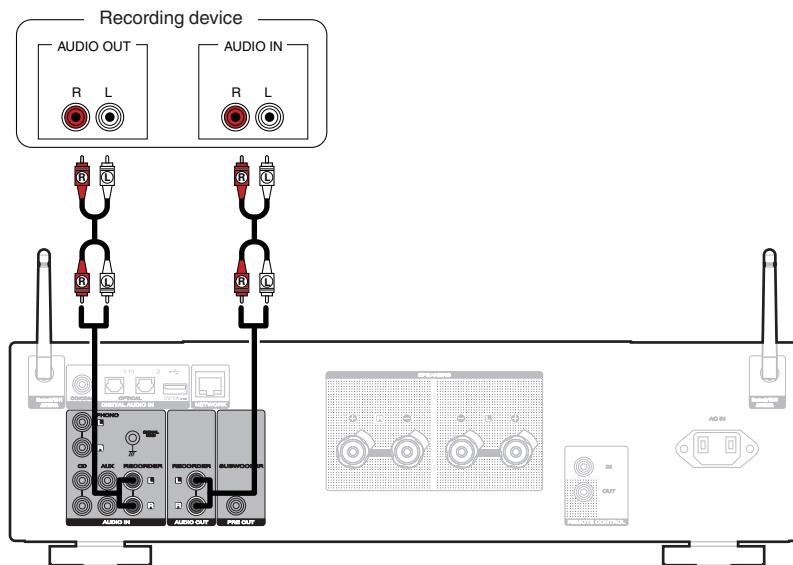


NOTE

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



Connecting a recording device



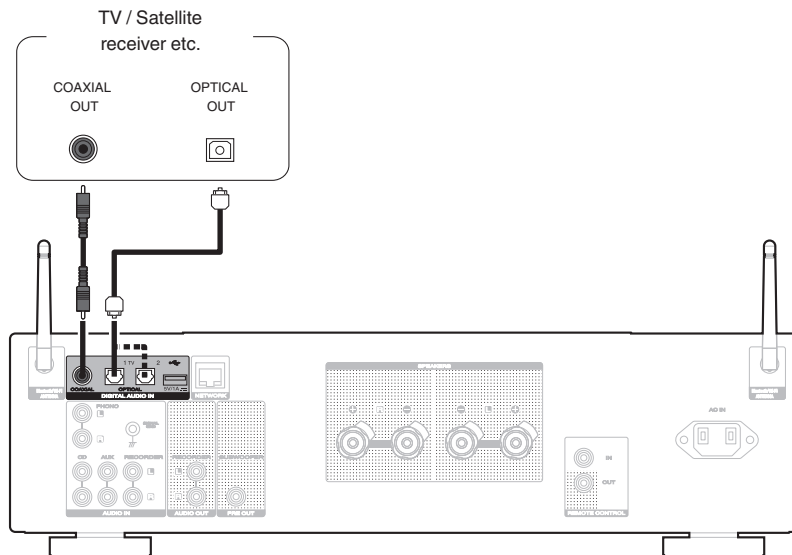
NOTE

- Never insert the short-circuiting pin plug into the analog audio output connectors (AUDIO OUT RECORDER). Doing so could result in damage.



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. 60)



- When connecting a TV to this unit, turn off the audio output of the TV's internal speakers. See the owner's manual of your TV for details.



NOTE

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

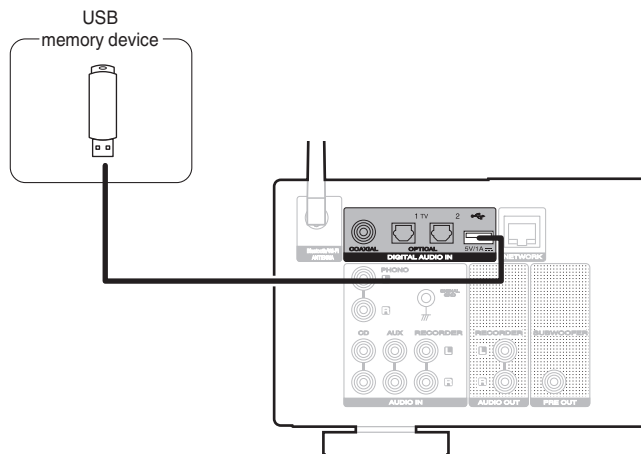
■ Specifications of supported audio formats

See “D/A converter” (🔍 p. 115).



Connecting a USB memory device to the USB port

For operating instructions see “Playing a USB memory device”. (📖 p. 44)



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

NOTE

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

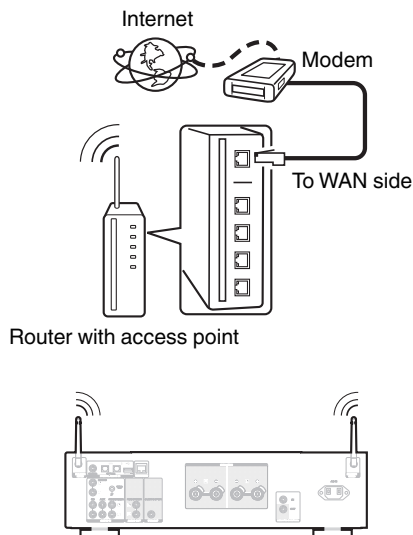


Wireless LAN

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

See “Wi-Fi Setup” on how to connect to a wireless LAN router.

(👉 p. 88)



- When using this unit, we recommend you use a router equipped with the following functions:
 - Built-in DHCP server
This function automatically assigns IP addresses on the LAN.
 - Built-in 100BASE-TX switch
When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater.
- Only use a shielded STP or ScTP LAN cable (readily available at electronics stores). (CAT-5 or greater recommended)
- The normal shielded-type LAN cable is recommended. If a flat-type cable or unshielded-type cable is used, other devices could be affected by noise.
- When using this unit connected to a network with no DHCP function, configure the IP address, etc. in “Network”. (👉 p. 86)

NOTE

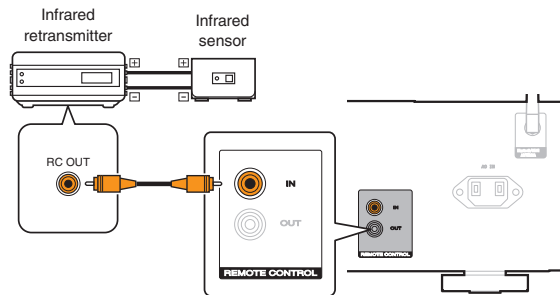
- The types of routers that can be used depend on the ISP. Contact your ISP or a computer shop for details.
- This unit is not compatible with PPPoE. A PPPoE compatible router is required if your contracted line is not set using PPPoE.
- Do not connect a NETWORK connector directly to the LAN port/ Ethernet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



Connecting devices with remote control connectors

Performing operations by RC on this unit without visual contact

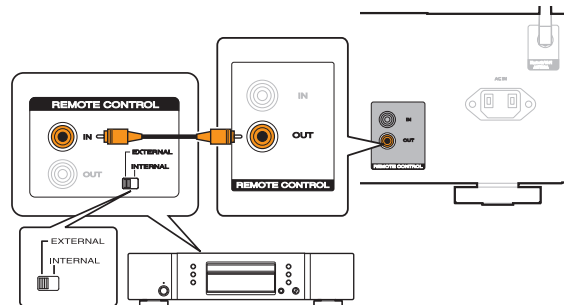
You can connect an external IR receiver to the REMOTE CONTROL connectors to perform operations on this unit with the supplied remote control unit without visual contact. This might be necessary if the unit is hidden in a cupboard or corner, so you can't directly point with the remote control unit to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



Remotely connecting Marantz audio devices

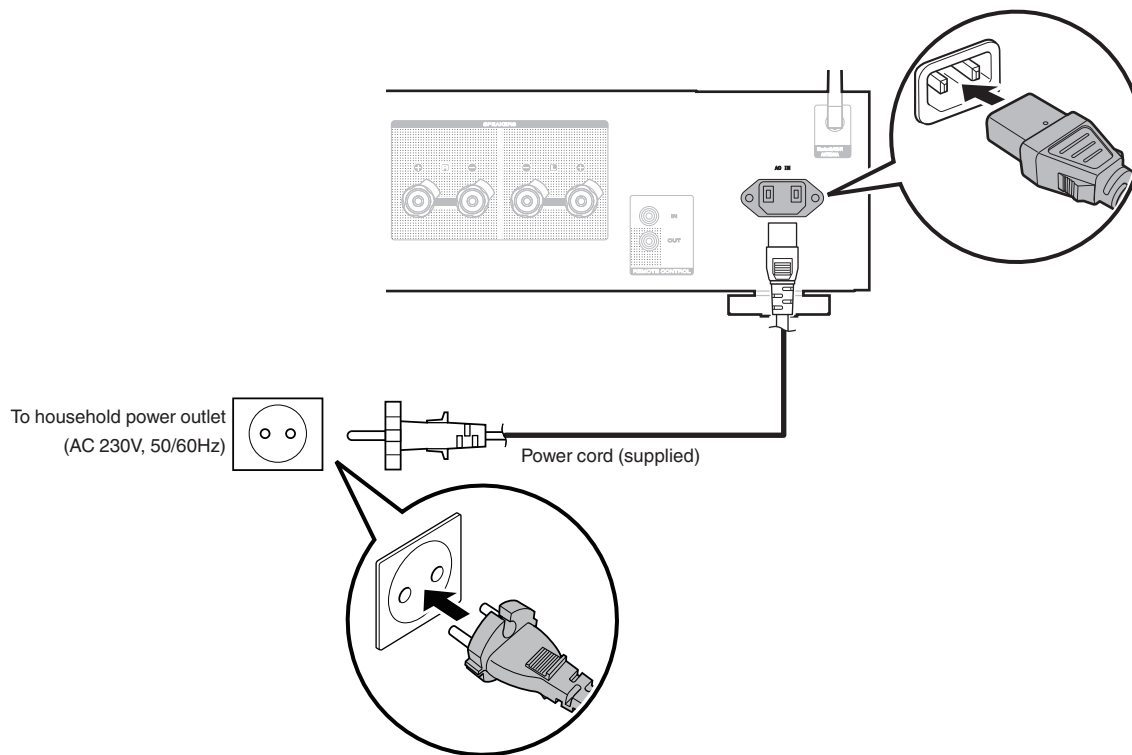
You can transmit remote control signals simply by connecting a Marantz audio device to the REMOTE CONTROL IN/OUT connectors using the remote connection cable provided with the device.

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



Connecting the power cord

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



■ Contents

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Playback network audio/service

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Playback a device

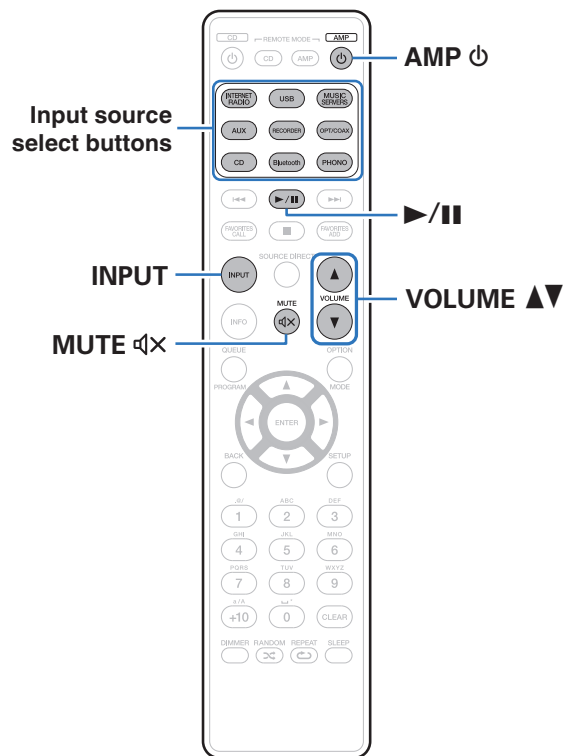
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Basic operation



Turning the power on

1 Press AMP ϕ to turn on.



- You can also press ϕ on the main unit to turn on power from standby mode.
- You can also press ►/II to turn on power from standby mode.

Switching the power to standby

1 Press AMP ϕ .

The unit switches to standby mode.



- You can also switch the power to standby by pressing ϕ on the main unit.

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.



Selecting the input source

- 1 **Press the input source select button to be played back.**
The selected input source appears on the display.



- This unit switches between Optical 1, Optical 2 and Coaxial each time OPT/COAX is pressed.
- You can also press INPUT to select the input source.
- You can also select the input source by turning INPUT SELECTOR on the main unit.

Adjusting the volume

- 1 **Use VOLUME ▲▼ to adjust the volume.**
The volume level appears on the display.



- You can also adjust the volume by turning VOLUME on the main unit.

Turning off the sound temporarily (Muting)

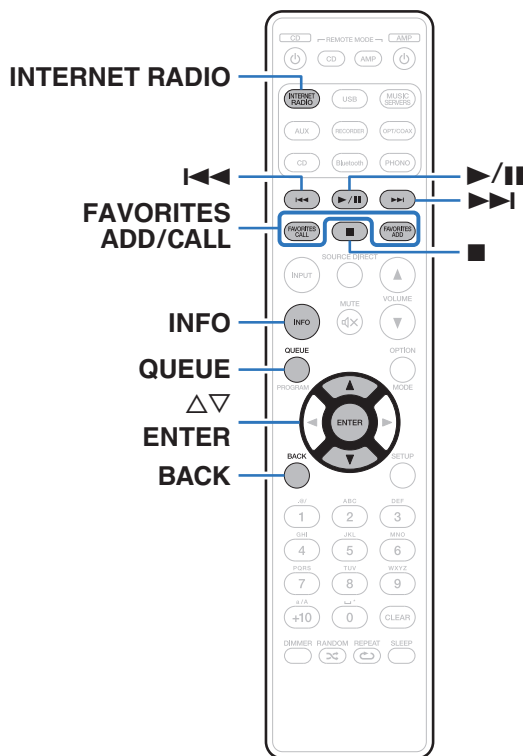
- 1 **Press MUTE .**
“Mute” is displayed on the display.



- To cancel mute, either adjust the sound volume or press MUTE  again.



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 Internet Radio station list on this unit the database service provided by TuneIn Radio service.
- The audio format types and specifications supported by this unit for playback are as follows.
See “Playing back Internet Radio” (p. 118) for details.







- WMA
- MP3
- MPEG-4 AAC



Listening to Internet Radio

1 Press INTERNET RADIO.

2 Select the station you want to play.

| Operation buttons | Function |
|--|--|
|  * | Playback / Pause |
|  | Stop |
|  * | Skip to previous track / Skip to next track |
|  | Select the item |
| ENTER | Enter the selected item / Playback |
| BACK | Moving up a level in the hierarchy |
| FAVORITES CALL | Call from the "HEOS Favorites" ( p. 67) |
| FAVORITES ADD | Adding to "HEOS Favorites" ( p. 66) |
| INFO | Switching the radio station name and file format |
| QUEUE | This displays the queue |

* Enabled when playing Podcasts.



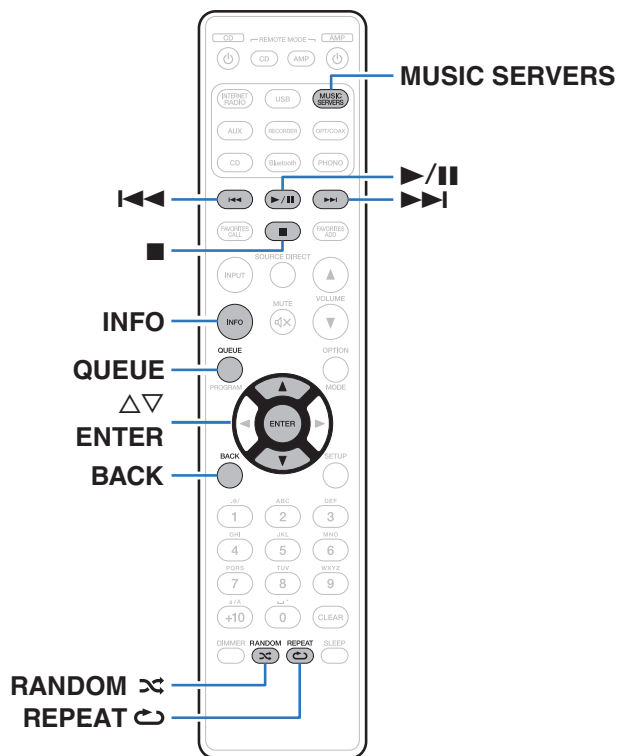
- Any characters that cannot be displayed are replaced with "." (period).

NOTE

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



Playing back files stored on PC or NAS



- This unit can play back music files and playlists (m3u, wpl) from DLNA compatible servers including PCs and NAS devices on your network.
- The audio format types and specifications supported by this unit for playback are as follows.

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

- WMA
- MP3
- WAV
- MPEG-4 AAC
- FLAC
- Apple Lossless
- DSD



Playing back files stored on PC or NAS

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

- 1 Press MUSIC SERVERS to switch the input source to “Music Servers”.**
- 2 Select the name of your networked PC or NAS (Network Attached Storage) server.**

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








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

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



4 Use $\Delta \nabla$ to select the “Play Now” or “Play Now & Replace Queue”, then press ENTER.

Playback starts.

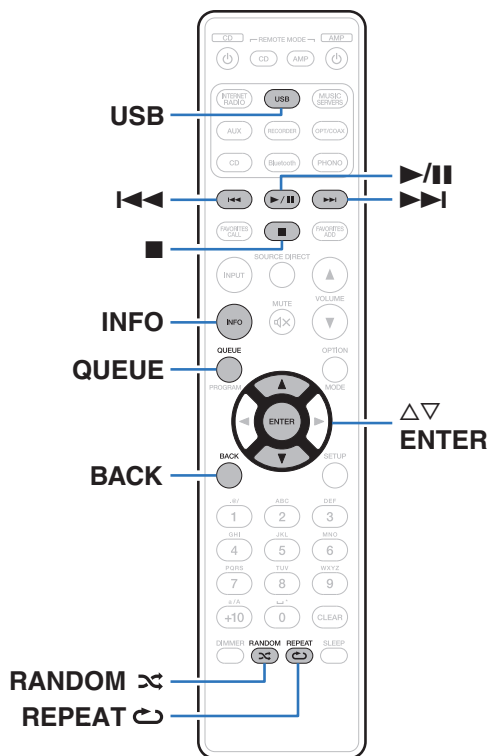
| Operation buttons | Function |
|--|---|
|  | Playback / Pause |
|  | Stop |
|  | Skip to previous track / Skip to next track |
| $\Delta \nabla$ | Select the item |
| ENTER | Enter the selected item |
| BACK | Moving up a level in the hierarchy |
| REPEAT  | Repeat playback <ul style="list-style-type: none"> Switching between Single-track repeat and All-track repeat. |
| RANDOM  | Random playback |
| INFO | Switching the album name and file format. |
| QUEUE | This displays the queue |

NOTE

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



Playing a USB memory device



- Playing back music files stored on a USB memory device.
- Only USB memory devices conforming to mass storage class standards can be played on this unit.
- This unit is compatible with USB memory devices in “FAT32” or “NTFS” format.
- The audio format types and specifications supported by this unit for playback are as follows.
See “Playing back a USB memory devices” (p. 114) for details.

- **WMA**
- **MP3**
- **WAV**
- **MPEG-4 AAC**
- **FLAC**
- **Apple Lossless**
- **DSD**



Playing files stored on USB memory devices

- 1** Insert a USB memory device into the rear panel's USB port.
- 2** Press USB to switch the input source to "USB Music".
- 3** Select the name of this unit.

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



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

Play Now:

Inserts the item into the queue after the currently playing track and plays the selected item immediately.

Play Now & Replace Queue:

Clears the queue and plays the selected item immediately.

Play Next:

Inserts the item into the queue after the current song and plays it when the current song ends.







Add to End of Queue:

Adds the item to the end of the queue.

- 5** Use $\Delta \nabla$ to select the "Play Now" or "Play Now & Replace Queue", then press ENTER.

Playback starts.



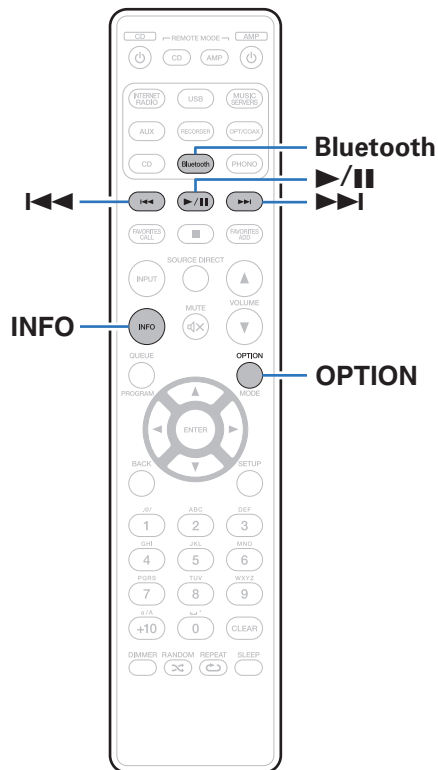
| Operation buttons | Function |
|---|---|
|  | Playback / Pause |
|  | Stop |
|  | Skip to previous track / Skip to next track |
|  | Select the item |
| ENTER | Enter the selected item / Playback |
| BACK | Moving up a level in the hierarchy |
| REPEAT  | Repeat playback <ul style="list-style-type: none"> • Switching between Single-track repeat and All-track repeat. |
| RANDOM  | Random playback |
| INFO | Switching the album name and file format. |
| QUEUE | This displays the queue |

NOTE

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



Listening to music on a Bluetooth device



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

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

NOTE

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



Listening to music on a Bluetooth device

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

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

1 Press Bluetooth.

When playing content via Bluetooth on this unit for the first time, the unit will go into the pairing mode automatically and “Bluetooth Pairing Mode” will appear on the display of the unit.

2 Activate the Bluetooth settings on your Bluetooth device.

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

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

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

4 Play music using any app on your Bluetooth device.

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

| Operation buttons | Function |
|-------------------|---|
| ▶/II | Playback / Pause |
| I◀▶▶I | Skip to previous track / Skip to next track |
| INFO | Switching the Bluetooth device name and Album name. |



Pairing with other Bluetooth devices

Pair a Bluetooth device with this unit.

- 1 Activate the Bluetooth settings on your Bluetooth device.**
- 2 Press and hold Bluetooth on the remote control unit for at least 3 seconds.**
This unit will go into the pairing mode.
- 3 Select this unit when its name appears in the list of devices displayed on the screen of the Bluetooth device.**



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

NOTE

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



Reconnecting to this unit from a Bluetooth device

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

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

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



- When the power of this unit and the Bluetooth function of this unit are turned on, the input source will be automatically switched to "Bluetooth" if a Bluetooth device is connected and is played.
- When the "Network Control" setting of this unit is set to "On" and a Bluetooth device is connected and is played with the unit in the standby state, the power of the unit will be turned on automatically. (🔧 p. 87)



Getting the HEOS App

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

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



- Specifications of the HEOS App may be changed without prior notice for improvement purposes.



HEOS Account

HEOS Accounts can be registered in “HEOS Account” (🔑 p. 93) in the menu of this unit or by tapping “Music” tab - “Settings” icon ⚙️ in the HEOS App.

■ What is a HEOS Account?

A HEOS Account is master account or “keychain” for managing all of your HEOS music services with one single username and password.

■ Why do I need a HEOS Account?

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

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

■ Signing up for a HEOS Account

You will be instructed to signup for a HEOS Account the first time you try to access any music service from the main “Music” menu of the HEOS App. Follow the instructions in the HEOS App to complete the operation.

■ Changing your HEOS Account

- 1 Tap the “Music” tab.
- 2 Select the Settings icon ⚙️ in the upper left corner of the screen.
- 3 Select “HEOS Account”.
- 4 Change your location, change your password, delete your account or sign out of your account.



Playing from streaming music services

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


NOTE

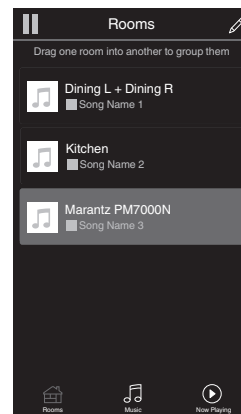
- The HEOS app and brand is not affiliated with any manufacturer of any mobile device. Availability of music services may vary by region. Not all services may be available at time of purchase. Some services may be added or discontinued from time to time based on decisions of the music service providers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

Selecting a room/device

- 1 Tap the “Rooms” tab. Select “Marantz PM7000N” if there are multiple HEOS devices.



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

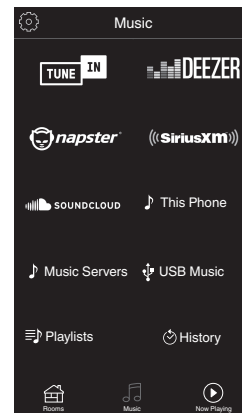


■ Selecting the music track or station from music sources

1 Tap the “Music” tab and select a music source.



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



2 Browse the music to play.

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



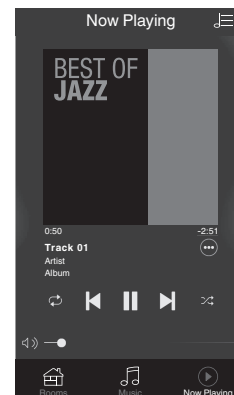
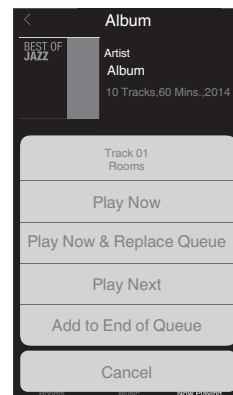
- When you select a music track to play you will be asked how you want to queue up your music.

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



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

| | |
|-------------------------------|--------------------------------------|
| Play Now: | Plays the selected item immediately. |
| Add to HEOS Favorites: | Adds to HEOS Favorites. |



Listening to the same music in multiple rooms

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

■ Grouping rooms

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



■ Ungrouping rooms

- 1 Press and hold your finger on room that you want to remove from the group.
- 2 Drag it out of the group and lift your finger.

NOTE

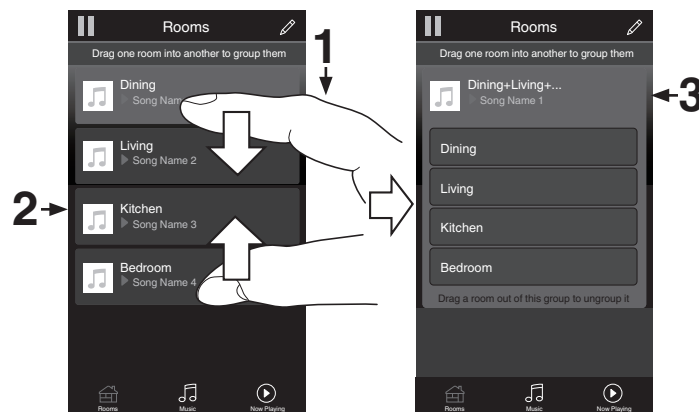
- You can not remove the first room that started playing the music before grouping.



■ Grouping all rooms (party mode)

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

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



■ Ungrouping all rooms

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

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



Playing digital input



OPT/COAX

1 Prepare for playback.

Check the connection, then turn on this units. (“Connecting to a device with digital audio output connectors” (p. 29))

2 Press OPT/COAX to switch the input source to “Optical 1”, “Optical 2” or “Coaxial”.

3 Play the component connected to this unit.

- 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.





- When “TV Input” is set in the menu, this unit automatically turns on when the TV connected to the unit is turned on, and the input source switches to “Optical 1”, “Optical 2” or “Coaxial”. (📖 p. 80)

NOTE

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

■ Specifications of supported audio formats

See “D/A converter” (📖 p. 115).



AirPlay function

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



- Input source will be switched to “AirPlay” when AirPlay playback is started.
- You can stop AirPlay playback by choosing other input source.
- For information about how to use iTunes, also see the Help for iTunes.
- The screen may differ depending on the OS and software versions.

NOTE

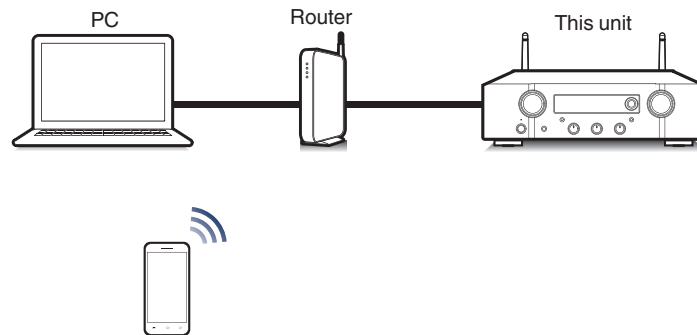
- In playback using the AirPlay function, the sound is output at the iPhone, iPod touch, iPad or iTunes volume setting level.
You should turn down the iPhone, iPod touch, iPad or iTunes volume prior to playback and then adjust it to a suitable level.

This device supports AirPlay 2.

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



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



Playing songs from your iPhone, iPod touch or iPad

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

1 Connect your iPhone, iPod touch or iPad Wi-Fi to the same network as this unit.

- For details, see your device’s manual.

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

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

3 Tap the AirPlay icon and select this unit.

[Example] iOS 12



[Example] iOS 9

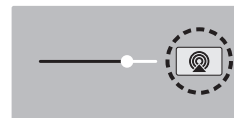


Playing iTunes music with this unit

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

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

[Example] iTunes



3 Choose a song and click play in iTunes.

The music will stream to this unit.



- When “Network Control” is set to “On”, you can turn on this unit by operating iTunes. (p. 87)



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

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

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

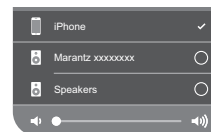
AirPlay icon is displayed on the iPhone, iPod touch or iPad screen.



2 Tap the AirPlay icon.

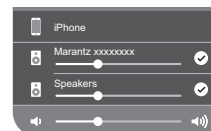
Displays a list of devices/speakers that can be played back on the same network.

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



3 Tap the devices/speakers you want to use.

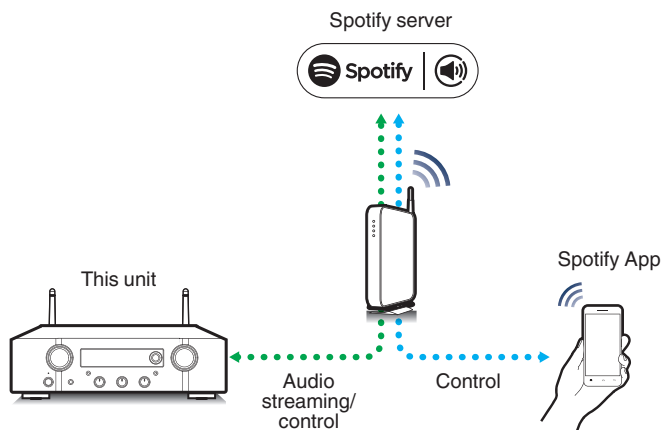
- Multiple AirPlay 2 compatible devices can be selected.
- Volume can be adjusted for each device individually or for all synced devices simultaneously.



Spotify Connect function


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

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



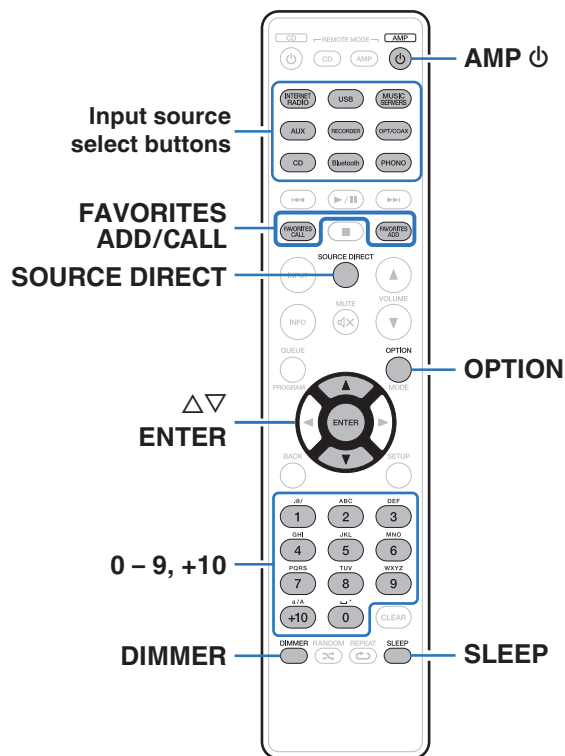
Playing Spotify music with this unit

Download the "Spotify App" onto your iOS or Android 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  on the playback screen and select this unit.**
The music will stream to this unit.



Convenience functions



- This section explains how to use convenient functions that can be used for each input source.
- Control of “HEOS Favorites” operations is optimized for the app. For more information on acquiring the app, see “Getting the HEOS App” (p. 51).

Adding to HEOS Favorites

This function only works for streamed content.

- 1 While content is playing, press FAVORITES ADD.**
The HEOS favorites list is displayed.
- 2 Use $\Delta \nabla$ to select the “HEOS Favorites” number you would like to save your contents to, then press ENTER.**



- Press OPTION on the remote control while content is playing back to display the option menu. Content can also be added to “HEOS Favorites” from the option menu.



Playing back HEOS Favorites

- 1 Press FAVORITES CALL.**
The “HEOS Favorites” is displayed.
- 2 Use $\Delta\nabla$ to select the content you would like to playback, then press ENTER.**
- 3 Use $\Delta\nabla$ to select “Play Now”, then press ENTER.**



- You can select content you would like to playback from your HEOS Favorites by pressing 0-9 and +10.

Deleting a HEOS Favorites

- 1 Press FAVORITES CALL.**
The “HEOS Favorites” is displayed.
- 2 While the HEOS Favorites content list is displayed, use $\Delta\nabla$ to select the item you want to remove from HEOS Favorites, then press ENTER.**
- 3 Use $\Delta\nabla$ to select “Remove from HEOS Favorites”, then press ENTER.**



Adjusting the tone

- 1 Press SOURCE DIRECT to turn off source direct mode.**
The SOURCE DIRECT indicator turns off.
- 2 Turn the BASS, TREBLE and BALANCE knobs to adjust the tone.**



- You can also press SOURCE DIRECT on the main unit to turn off source direct mode.

Playback in source direct mode

The signal does not pass through the tone adjustment circuitry (BASS, TREBLE and BALANCE), resulting in playback of a higher sound quality.

- 1 Press SOURCE DIRECT to turn on source direct mode.**
The SOURCE DIRECT indicator lights.



- You can also press SOURCE DIRECT on the main unit to turn on source direct mode.



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.

- The brightness of the display switches each time the button is pressed.




- When the display is turned off, the DISPLAY OFF indicator lights up.
- If the buttons are operated when the display is turned off, information is displayed temporarily.
- The display brightness is set to most brightly by default.

Using the sleep timer


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

1 Press SLEEP during playback and select the setting time.

- The  indicator on the display lights.
- The sleep timer can be set to up to 90 minutes, in steps of 10 minutes.
- After about 5 seconds, the setting is entered and the display returns to as it was before.

■ To cancel the sleep timer

1 Press SLEEP to set "Sleep ► Off".

The  indicator on the display turns off.




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



Recording

Audio signals input into this unit can be output to an external recording device. When recording audio from a playback device connected to this unit, audio can be recorded with the playback device still connected to this unit.

- 1 Press AMP  to turn on.**
- 2 Press the input source select button to switch to the input source from which you want to record.**

The selected input source is displayed on the display.

- 3 Recording starts.**

- For information on operations, see the owner's manual of the recording device.



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 |
|---------------|-----------------------------|---|------|
| Audio | Volume Limit | Make a setting for maximum volume. The volume cannot be increased above this setting. | 79 |
| | Subwoofer - Low Pass Filter | Sets the low pass filter for the subwoofer output. Set this according to your speakers and subwoofer. | 79 |



| Setting items | Detailed items | Description/Detailed items | Page |
|---------------|----------------|--|------|
| General | TV Input | Set this when playing audio from a TV on this unit. | 80 |
| | IR Control | Assign operations on this unit to the remote control of your TV. This enables you to operate this unit with the remote control of your TV. | 81 |
| | Language | Sets the language for display the menu. | 81 |
| | Auto-Standby | Sets the unit power to standby when the unit is not in use. | 81 |
| | Usage Data | Selects whether or not to send anonymous usage data to Marantz. | 82 |
| | Firmware | Set whether or not to check for firmware update, update the firmware, and display update and upgrade notifications. | 82 |
| | | Check for Update | 82 |
| | | Auto-Update | 83 |
| | | Allow Update | 83 |
| | | Upgrade Notification | 83 |
| | | Add New Feature | 84 |
| | Information | Displays notifications. Also, sets whether or not to display the notification when the power is turned on. | 85 |
| | | Notification Alerts | 85 |
| | | Check for Notifications | 85 |
| | Reset | Various settings are reset to the factory default values. | 85 |



| Setting items | Detailed items | Description/Detailed items | Page |
|----------------|----------------------------|---|------|
| Network | Network Information | Displays various information about the network. | 86 |
| | Network & USB-A | The network and USB memory playback (USB-A) functions can be stopped to prevent noise that affects the sound quality. | 86 |
| | Wi-Fi | The Wi-Fi function can be stopped to prevent noise that affects the sound quality. | 86 |
| | Bluetooth | Stopping Bluetooth function reduces a source of noise that affects sound quality, enabling higher sound quality playback. | 86 |
| | Network Control | Performs the On/Off settings for the network function when in standby mode. | 87 |
| | Friendly Name | Edits a name displayed on the Internet. | 87 |
| | Connection | Choose whether to connect the home network to a wireless LAN or a wired LAN. | 88 |
| | Wi-Fi | Use the wireless LAN (Wi-Fi) function to connect to a network. | 88 |
| | | Auto-Scan | 88 |
| | | Share Wi-Fi setting from an iOS device | 89 |
| | | WPS Router | 89 |
| | | Manual | 90 |
| | Wired | Use a LAN cable to connect to a network. | 88 |



| Setting items | Detailed items | Description/Detailed items | Page |
|---------------|----------------|---|------|
| Network | Settings | Used for manually setting the IP address. | 91 |
| | | DHCP | 91 |
| | | IP Address*1 | 91 |
| | | Subnet Mask*1 | 91 |
| | | Gateway*1 | 91 |
| | | DNS*1 | 91 |
| | | Save | 91 |
| | Diagnostics | Used to check the network connection. | 92 |
| | | Physical Connection*2 | 92 |
| | | Router Access | 92 |
| | | Internet Access | 92 |

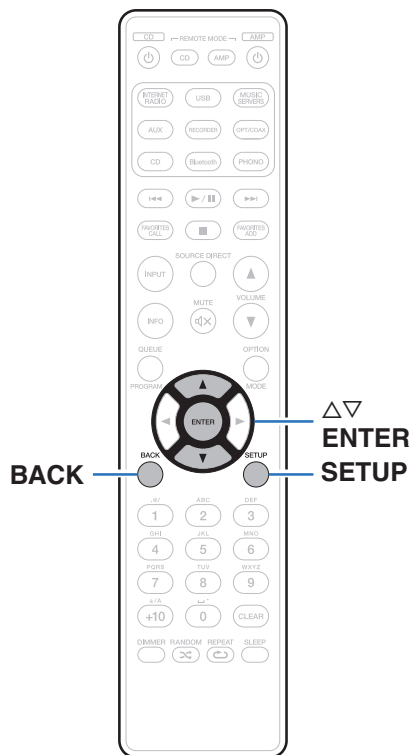
*1 Displayed when the “DHCP” setting is “Off”.

*2 When connected using a wireless LAN, “Connection Wireless (Wi-Fi)” will be displayed.



| Setting items | Detailed items | Description | Page |
|---------------|---|---|------|
| HEOS Account | [When the user is signed out the HEOS Account] | | |
| | I have a HEOS Account | Selects to sign in. | 93 |
| | Create Account | Creates new HEOS Account. | 93 |
| | Forgot Password | If you have forgotten the password, an email explaining how to reset the password will be sent. | 93 |
| | [When the user is signed in the HEOS Account] | | |
| | Signed in As | Displays your HEOS Account. | 93 |
| | Change Location | Selects your location. | 93 |
| | Change Password | Changes your HEOS Account Password. | 93 |
| | Delete Account | Deletes your HEOS Account. | 93 |
| | Sign Out | Sign out of your HEOS Account. | 93 |
| Quick Setup | – | Performs the network settings using a Wizard style window. For details on the operations, see the separate “Quick Start Guide”. | – |





Menu operation

1 Press **SETUP**.

The menu is displayed on the display.

2 Use Δ / ∇ to select the menu to be set or operated, then press **ENTER**.

3 Use Δ / ∇ to change to desired setting.

4 Press **ENTER** to enter the setting.

- To return to the previous item, press **BACK**.
- Exiting the Menu, press **SETUP** while the menu is displayed. The display returns to the normal display.



Inputting characters

On this unit, you can change the name displayed on the following screens to the names that you prefer.

- Friendly Name (p. 87)
- Character input for the network functions

Using the number buttons

- Display the screen for inputting characters.**
 - To change a character, use $\triangleleft \triangleright$ to align the cursor with the character that you want to change.
- Press +10 to select the character type (upper case, lower case, characters with diacritical marks or numeric characters).**

3 Use 0 – 9, +10 until the desired character is displayed.

- The types of characters that can be input are as shown in the following table.

| | |
|--------|--|
| 1. | 1. @ - _ / : |
| 2 ABC | a b c A B C 2 ä å á â ã æ ç ċ Ä Å Ä Æ É Ç Ć |
| 3 DEF | d e f D E F 3 ð ë è é ê ð Ě Ě Ě Ě |
| 4 GHI | g h i G H I 4 ï î ï ï ï ï |
| 5 JKL | j k l J K L 5 |
| 6 MNO | m n o M N O 6 ñ ò ó ô õ ø Ñ Ò Ó Ô Õ Ø |
| 7 PQRS | p q r s P Q R S 7 Š š ſ ſ Š Ŗ Ŗ Š Š |
| 8 TUV | t u v T U V 8 ü ú ú ü Ü Ú Ú Ü |
| 9 WXYZ | w x y z W X Y Z 9 ý ž ž þ Ý Ž Ž Þ |
| 0 . | 0 (Space) ! " # \$ % & ' () * + , ; < = > ? [\] ^ _ { } ¡ ¢ £ ¤ § © « ¬ ° ± » ¿ |

- Repeat steps 2 and 3 to input characters then press ENTER to register it.**



Audio

Make audio-related settings.

Volume Limit

Make a setting for maximum volume. The volume cannot be increased above this setting.

Off

(Default):

Do not set a maximum volume. (100)

95 / 90 / 85 / 80

Subwoofer - Low Pass Filter

Sets the low pass filter for the subwoofer output. Set this according to your speakers and subwoofer. The output audio signal has a lower frequency than the set value.

40 Hz / 60 Hz / 80 Hz / 100 Hz / 120 Hz (Default: 80 Hz)



General

TV Input

Set this when playing audio from a TV on this unit. When the TV is turned on, this unit turns on and the input source is automatically switched to "Optical 1", "Optical 2" or "Coaxial" so that the audio from the TV can be played through this unit.

■ Default Input

Set the input source to be used when playing audio from the TV through this unit. Set this according to the jack on this unit being used to connect to the TV (OPTICAL 1, OPTICAL 2 or COAXIAL).

None / Optical In 1 / Optical In 2 / Coaxial In
(Default: Optical In 1)

■ Auto-Play

When a TV audio source is input to this unit, the unit automatically switches to the input source set in "Default Input" and the Auto-Play function for playing TV audio on this unit is set.

| | |
|------------|---------------------------------|
| On: | Enables the Auto-Play function. |
|------------|---------------------------------|

| | |
|--------------------------|----------------------------------|
| Off (Default): | Disables the Auto-Play function. |
|--------------------------|----------------------------------|



- The Auto-Play function does not work when "Default Input" is set to "None". Set "Default Input" in advance.



IR Control

Assign operations on this unit to the remote control of your TV. This enables you to operate this unit with the remote control of your TV.

- 1 Use $\Delta \nabla$ to select the operation on this unit to be performed with the remote control of your TV and press ENTER.

Volume Up / Volume Down / Mute / Power Toggle / Power On / Power Off / Input Optical In 1 / Input Optical In 2 / Input Coaxial In / Input CD / Input AUX / Input Recorder



- The operations indicated by a check mark are already assigned to the TV remote control. To assign an operation to a different button, press ENTER while the operation is indicated by a check mark to remove the check mark, then configure the setting again.

- 2 Follow the instructions in the display to configure the setting.

The set operation on this unit is indicated by a check mark after the setting is complete.

Language

Sets the language for display the menu.

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

Auto-Standby

Sets the amount of time that must elapse without unit operation or an input signal before the unit goes into standby automatically.

| | |
|---------------------|--|
| Off: | The unit does not go into standby automatically. |
| 1min: | The unit goes into standby after 1 minutes. |
| 5min: | The unit goes into standby after 5 minutes. |
| 15min (Default): | The unit goes into standby after 15 minutes. |
| Other: | Sets the minutes (between 1 and 99) before the unit automatically goes into standby. After setting the amount of time with 0 – 9, +10 buttons, press ENTER to confirm the setting. |



Usage Data

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

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

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

Firmware

Checks for and installs the latest firmware information updates and upgrades. Also sets the upgrade notification message display.

■ Check for Update

Check for firmware updates.

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

| | |
|--------------------|--|
| Update Now: | Execute the update process. During the update, the progress is shown on the display. |
|--------------------|--|

| | |
|----------------------|---------------|
| Update Later: | Update later. |
|----------------------|---------------|



- This unit automatically retries updating if updating fails. If an update still cannot be performed, an "Update Error" message appears in the display. See "Troubleshooting" – "Update/upgrade error messages" for information on update error messages. (🔍 p. 112)
Check the conditions according to the message and try the update again.
- This menu cannot be selected when "Allow Update" is set to "Off".



■ Auto-Update

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

□ Auto-Update

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

On: Turns on Automatic Updates.

Off
(Default): Turns off Automatic Updates.

□ Time Zone

Change the time zone.

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



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

■ Allow Update

Enable or disable updates and upgrades for this unit.

On
(Default): Enables this unit to receive updates and upgrades.

Off: Prevents this unit from receiving update and upgrade.



- This unit and HEOS App may become incompatible when this setting is set to "Off".

■ Upgrade Notification

When the latest Upgrade firmware is available, a notification message is displayed on the display of this unit at power on.

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

On
(Default): Display upgrade message.

Off: Do not display upgrade message.



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



■ Add New Feature

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

| | |
|-------------------------|--|
| Upgrade Package: | Display the items to be upgraded. |
| Upgrade ID: | The ID number shown on the display is needed when carrying out the procedure. |
| Upgrade Status: | Display a list of the additional functions provided by the upgrade. |
| Start Upgrade: | Execute the upgrade process. During the upgrade, the amount of upgrade time which has elapsed is displayed. |



- Information regarding the “Update” function and “Add New Feature” will be announced on the Marantz website each time related plans are defined. See the Marantz website for details about upgrades.
- When the procedure is complete, “Registered” is displayed in this menu and upgrades can be carried out. If the procedure has not been carried out, “Not Registered” is displayed.
- If the upgrade is not successful, “Upgrade Error” message appears in the display. See “Troubleshooting” – “Update/upgrade error messages” for information on upgrade error messages. (🔗 p. 112)
Check the settings and network environment and then perform the upgrade again.
- This menu cannot be selected when “Allow Update” is set to “Off”.

Notes concerning use of “Update” and “Add New Feature”

- In order to use these functions, you must have the correct system requirements and settings for an Internet connection. (🔗 p. 32)
- 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, there may be cases where backup data is reset for the parameters, etc., set on this unit.
- If the update or upgrade fails, press and hold the ⏻ on the main unit for more than 5 seconds, or remove and re-insert the power cord. After about 1 minute, “Please wait” appears on the display and update restarts. If the error continues, check the network environment.



Information

■ Notification Alerts

Sets whether or not to display the notification when the power is turned on.

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

■ Check for Notifications

Displays notifications.

Reset

Perform this procedure if the display is abnormal or if operations cannot be performed. Restores the contents of each setting to the factory settings. Make settings again.

| | |
|--------------------------------|--------------------------|
| Reset factory defaults: | Unit is initialized. |
| Cancel: | Unit is not initialized. |



Network

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

If you set up your home network (LAN) via DHCP, set “DHCP” to “On”. (Use the default setting.) This allows this unit to use your home network (LAN).

When assigning an IP address to each device manually, you need to assign an IP address to this unit using the “IP Address” settings, and enter information about your home network (LAN) such as the gateway address and subnet mask, etc.

Network Information

Displays network information.

Friendly Name / Connection / SSID (Wi-Fi Signal Strength) / DHCP / IP Address / MAC Address (Ethernet) / MAC Address (Wi-Fi)

Network & USB-A

The network and USB memory playback (USB-A) functions can be stopped to prevent noise that affects the sound quality. This enables playback with a high sound quality when using the CD playback and D/A converter functions.

Enabled (Default) : Enables the network and USB memory playback (USB-A) function.

Disabled : Disables the network and USB memory playback (USB-A) function.

Wi-Fi

The Wi-Fi function can be stopped to prevent noise that affects the sound quality. Using a wired LAN to connect this unit to the network enables playback with a high sound quality.

Enabled (Default): Enables the Wi-Fi function.

Disabled: Disables the Wi-Fi function.

Bluetooth

Stopping Bluetooth function reduces a source of noise that affects sound quality, enabling higher sound quality playback.

Enabled (Default): Enables the Bluetooth function.

Disabled: Disables the Bluetooth function.



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. |



- When using the HEOS App, use with the "Network Control" setting set to "On".

NOTE

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

Friendly Name

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

■ Friendly Name

Selects Friendly Name from the list.

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

Current Friendly Name / Home Theater / Living Room / Family Room / Guest Room / Kitchen / Dining Room / Master Bedroom / Bedroom / Den / Office / Marantz PM7000N / Other



- Up to 30 characters can be input.
- For character input, see "Inputting characters" (🖱 p. 77).
- The default Friendly Name on first use is "Marantz PM7000N".



Connection

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

When connecting to the network using wired LAN, select “Wired” after connecting a LAN cable.

When connecting to the network using wireless LAN, select “Wi-Fi” and configure the “Wi-Fi Setup”. (🖱️ p. 88)

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

■ Wi-Fi Setup

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

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



- “Wi-Fi Setup” is not displayed in the setting menu when “Connection” in the setting menu is set to “Wired”.

□ Auto-Scan

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

1. Select the network you wish to connect to from the list of wireless networks.
Select “Rescan” if the network cannot be found.
2. Enter your password and press ENTER.



❏ Share Wi-Fi setting from an iOS device

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

1. Select "Share Wi-Fi setting from an iOS device" on the display.
2. Check that your iOS device is connected to the wireless LAN (Wi-Fi) router and select "Marantz PM7000N" from "SET UP NEW AIRPLAY SPEAKER..." at the bottom of the Wi-Fi configuration screen of your iOS device.
3. Tap "Next" on the screen of the iOS device.



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

❏ WPS Router

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

1. Select "WPS Router" on the display.
2. Switch to the WPS mode by pressing the WPS button of the router you wish to connect to.
 - The time for pressing the button varies depending on the router.
3. Press ENTER within 2 minutes.



❏ Manual

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

1. Set the following items.

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

2. Select "Test Connection" at the end of the setting.



- The wireless LAN (Wi-Fi) settings of this unit can also be configured from a PC or tablet that supports wireless LAN connection.
 1. Press and hold the SOURCE DIRECT and BACK buttons on the main unit for at least 3 seconds when the power of the unit is on.
 2. Connect your PC or tablet to the "Marantz PM7000N" wireless LAN network when the message "Connect your Wi-Fi device to Wi-Fi network called "Marantz PM7000N"." appears in the display.
 3. Start up the browser and enter "192.168.1.16/Settings/" in the URL.
 4. Use the browser to enter the settings, select "Save Settings" and then exit the settings.
- Set "1" as the default key setting of the router when connecting to a WEP encrypted network. (The default key of this unit is fixed as "1".)



Settings

Configure the IP address.

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

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.

DNS

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

Save

Save settings



- If you cannot connect to the Internet, recheck the connections and settings. (p. 32)
- If you do not understand about Internet connection, contact your ISP (Internet Service Provider) or the store from which you purchased your computer.



Diagnostics

Used to check the network connection.

■ Physical Connection

Checks the physical LAN port connection.

OK

Error:

The LAN cable is not connected. Check the connection.



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

■ Router Access

Checks the connection from this unit to the router.

OK

Error:

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

■ Internet Access

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

OK

Error:

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



HEOS Account

Make HEOS Account-related settings.

HEOS Account is needed in order to use HEOS Favorites.

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

You have not signed in

■ I have a HEOS Account

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

■ Create Account

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

■ Forgot Password

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

You have already signed in

■ Signed in As

The currently signed in HEOS Account is displayed.

■ Change Location

Change the regional settings for the signed in HEOS Account.

■ Change Password

Change the password for the signed in HEOS Account.

■ Delete Account

Delete the signed in HEOS Account.

■ Sign Out

Sign out from the HEOS Account.



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Tips

I want to listen to high sound performance playback

- The network and USB memory playback (USB-A) functions can be stopped to prevent noise that affects the sound quality. Set “Network & USB-A” to “Disabled” in the menu. (🔧 p. 86)
- The Wi-Fi function can be stopped to prevent noise that affects the sound quality. Set “Disabled” to the “Wi-Fi”. (🔧 p. 86)
- Stopping Bluetooth function reduces a source of noise that affects sound quality, enabling higher sound quality playback. Set “Disabled” to the “Bluetooth”. (🔧 p. 86)

I want to play TV audio at higher quality

- Connect a line between the digital audio output connectors of the TV and the digital audio input connectors of this unit (COAXIAL or OPTICAL 1/2) and switch the input source to the connectors where the line was connected (COAXIAL or OPTICAL 1/2). (🔧 p. 29)
- Only 2-channel linear PCM can be input as the digital audio signal to this unit.

I want to adjust the tone myself

- Use the BASS, TREBLE and BALANCE knobs to adjust the sound as desired. (🔧 p. 68)

I want sound playback that is faithful to the original sound

- Set the source direct mode on. (🔧 p. 68)



Simple operations in the power off state

- Press the ►/|| button to simultaneously perform each operation and switch the unit on.
- When the “Network Control” function is set to “On”, you can perform playback, or other operations through AirPlay or HEOS App. (📖 p. 87)

I want the volume not to become too loud by mistake

- Set the volume upper limit for “Volume Limit” in the menu beforehand. This prevents children or others from increasing the volume too much by mistake. (📖 p. 79)

I want to operate a Marantz CD player with this unit’s remote control

- Marantz CD players can be operated with this unit’s remote control. Refer to the instruction manual of the CD player too. (📖 p. 21)




Troubleshooting

If a problem should arise, first check the following:

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



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



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

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



Power does not turn on / Power is turned off

Power is not turned on.

- Check whether the power plug is correctly inserted into the power outlet. (🔧 p. 35)
- This unit is in standby mode. Press the  button on the unit or the AMP  button on the remote control. (🔧 p. 37)

Power automatically turns off.

- The sleep timer is set. Turn on the power again. (🔧 p. 69)
- “Auto-Standby” is set. “Auto-Standby” is triggered when there is no operation for a set amount of time. To disable “Auto-Standby”, set “Auto-Standby” on the menu to “Off”. (🔧 p. 81)

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

- The protection circuit has been activated due to a rise in temperature within this unit. Turn the power off, wait about an hour until this unit cools down sufficiently, and then turn the power on again. (🔧 p. 122)
- Please re-install this unit in a place having good ventilation.
- Check the speaker connections. The protection circuit may have been activated because speaker cable core wires came in contact with each other or a core wire was disconnected from the connector and came in contact with the rear panel of this unit. After unplugging the power cord, take corrective action such as firmly re-twisting the core wire or taking care of the connector, and then reconnect the wire. (🔧 p. 24)
- Turn down the volume and turn on the power again. (🔧 p. 37)
- If this does not solve the issue, the amplifier circuit in the unit has malfunctioned. Unplug the power cord and contact our customer service center.

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

- The power circuit in the unit has malfunctioned. Unplug the power cord and contact our customer service center.



Operations cannot be performed through the remote control unit

Operations cannot be performed through the remote control unit.

- Batteries are worn out. Replace with new batteries. (🔍 p. 7)
- Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°. (🔍 p. 7)
- Remove any obstacle between this unit and the remote control unit.
- Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks. (🔍 p. 7)
- The unit'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.
- Operations on this unit can be assigned to the remote controls of devices such as a TV using the "IR Control" function of the unit. Please note, however, that some remote controls may not be compatible with the "IR Control" function. (🔍 p. 81)

Display on this unit shows nothing

Display is off.

- Press the DIMMER button, and change the setting to anything other than off. (🔍 p. 69)



No sound comes out

No sound comes out of speakers.

- Check the connections for all devices. (🔧 p. 23)
- Insert connection cables all the way in.
- Check that input connectors and output connectors are not reversely connected.
- Check cables for damage.
- Check that speaker cables are properly connected. Check that cable core wires come in contact with the metal part on speaker terminals. (🔧 p. 24)
- Securely tighten the speaker terminals. Check speaker terminals for looseness. (🔧 p. 24)
- Check that the proper input source is selected. (🔧 p. 38)
- Adjust the volume. (🔧 p. 38)
- Cancel the mute mode. (🔧 p. 38)
- Check that the correct input source is selected when audio is being input to this unit from an external device. (🔧 p. 38)
- Check the digital audio output setting on the connected device. The initial settings may be off depending on the device.
- No sound is output from the speaker terminals or the preout connector when headphones are connected. (🔧 p. 13)
- Do not input non-PCM signals, such as Dolby Digital, DTS and AAC. This causes noise and could damage the speakers.
- To playback via a Bluetooth connection, perform pairing between this unit and the Bluetooth device. (🔧 p. 47)



Sound is interrupted or noise occurs

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

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

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

- When making a call, keep a distance of 20 cm or longer between mobile phone and this unit.

Sound cuts out when using Wi-Fi connection.

- The frequency band used by the wireless LAN is also used by microwave ovens, cordless telephones, wireless game controllers and other wireless LAN devices. Using such devices at the same time as this unit may cause sound to cut out due to electronic interference. Sound cut out can be improved using the following methods. (👉 p. 32)
 - Install devices that cause interference away from this unit.
 - Turn off the power supply to devices that cause interference.
 - Change the settings of the router channel to which this unit is connected to. (See the instruction manual of the wireless router for details on how to change the channel.)
 - Switch to a wired LAN connection.
- Particularly when you play back large music files, depending on your wireless LAN environment, the playback sound may be interrupted. In this case, make the wired LAN connection. (👉 p. 88)



When playing a record, the sound is distorted.

- Adjust to a proper needle pressure.
- Check the tip of the needle.
- Replace the cartridge.

When playing a record, a humming noise comes out of the speakers.

- Check that the turntable is connected correctly. (👉 p. 27)
- If there is a TV or AV device near the turntable, such devices may affect the playback sound. Install the turntable in a location as far away as possible from the TV or other AV devices.

When playing a record, a humming noise comes out of the speakers when the volume is high. (Howling phenomenon)

- Install the turntable and speakers as far from each other as possible. (👉 p. 27)
- The vibrations from the speakers are being transmitted to the player through the floor. Use cushions, etc., to absorb the speakers' vibrations.



Desired sound does not come out

The volume does not increase.

- The maximum volume is set too low. Set the maximum volume using "Volume Limit" on the menu. (👉 p. 79)

Left/right volume balance is unbalanced.

- Adjust the BALANCE control knob. (👉 p. 68)

No sound is produced from subwoofer.

- Check the subwoofer connections. (👉 p. 25)
- Turn on the subwoofer's power.

The settings of the BASS, TREBLE and BALANCE knobs are not applied.

- The settings of the BASS, TREBLE and BALANCE knobs are not applied to the subwoofer output.
- Press the SOURCE DIRECT button to turn off source direct mode. (👉 p. 68)

The left and right of stereo sound is reversed.

- Check whether the left and right speakers are connected to the correct speaker terminals. (👉 p. 26)



AirPlay cannot be played back

The AirPlay icon is not displayed on iTunes / iPhone / iPod touch / iPad.

- This unit and PC / iPhone / iPod touch / iPad are not connected to the same network (LAN). Connect it to the same LAN as this unit. (🔍 p. 32)
- The firmware on iTunes / iPhone / iPod touch / iPad is not compatible with AirPlay. Update the firmware to the latest version.
- Set “Network & USB-A” in the menu to “Enabled”. The AirPlay function does not work when “Network & USB-A” is “Disabled”. (🔍 p. 86)

Audio is not output.

- The volume on iTunes / iPhone / iPod touch / iPad is set to the minimum level. The volume on iTunes / iPhone / iPod touch / iPad is linked with the volume on this unit. Set a proper volume level.
- The AirPlay playback is not performed, or this unit is not selected. Click the AirPlay icon on the iTunes / iPhone / iPod touch / iPad screen and select this unit. (🔍 p. 63)

Audio is interrupted during the AirPlay playback on iPhone / iPod touch / iPad.

- Quit the application running in the background of the iPhone/iPod touch/iPad, and then play using AirPlay.
- Some external factors may be affecting the wireless connection. Modify the network environment by taking measures such as shortening the distance from the wireless LAN access point.

iTunes cannot be played back through the remote control unit.

- Enable the “Allow iTunes audio control from remote speakers” setting on iTunes. Then, you can perform playback, pause, and skip operations through the remote control unit.



USB memory devices cannot be played back

USB memory device is not recognized.

- Disconnect and reconnect the USB memory device. (👉 p. 31)
- Mass storage class compatible USB memory devices are supported.
- This unit does not support a connection through a USB hub. Connect the USB memory device directly to the USB port.
- The USB memory device must be formatted to FAT32 or NTFS.
- Not all USB memory devices are guaranteed to work. Some USB memory devices are not recognized. When using a type of portable hard disc drive compatible with the USB connection that requires power from an AC adapter, use the AC adapter that came with the drive.
- Set “Network & USB-A” in the menu to “Enabled”. The USB memory device playback function does not work when “Network & USB-A” is “Disabled”. (👉 p. 86)

Files on the USB memory device are not displayed.

- Files of a type not supported by this unit are not displayed. (👉 p. 44)
- This unit is able to display files in a maximum of eight folder layers. A maximum of 5000 files (folders) can also be displayed for each layer. Modify the folder structure of the USB memory device.
- When multiple partitions exist on the USB memory device, only files on the first partition are displayed.

iOS and Android devices are not recognized.

- The USB port of this unit does not support playback from iOS and Android devices.

Files on a USB memory device cannot be played.

- Files are created in a format that is not supported by this unit. Check the formats supported by this unit. (👉 p. 114)
- You are attempting to play a file that is copyright protected. Files that are copyright protected cannot be played on this unit.
- Playback may not be possible if the album art file size exceeds 2 MB.




File names on the USB memory device are not displayed properly

The file names are not displayed properly (“...”, etc.).

- Characters that cannot be displayed are used. This is not a malfunction. Characters that cannot be displayed have been used. On this unit, characters that cannot be displayed are replaced with a “.” (period).

Bluetooth cannot be played back

Bluetooth devices cannot be connected to this unit.

- The Bluetooth function in the Bluetooth device has not been enabled. See the Owner’s Manual of the Bluetooth device to enable the Bluetooth function.
- Bring the Bluetooth device near to this unit.
- The Bluetooth device cannot connect with this unit if it is not compatible with the A2DP profile.
- Turn the power of the Bluetooth device off and on again, and then try again.
- Set “Bluetooth” in the menu to “Enabled”. The Bluetooth function does not work when “Bluetooth” is “Disabled”.
( p. 86)

The sound is cut off.

- Bring the Bluetooth device near to this unit.
- Remove obstructions between the Bluetooth device and this unit.
- To prevent electromagnetic interference, locate this unit away from microwave ovens, wireless LAN devices and other Bluetooth devices.
- Reconnect the Bluetooth device.



The Internet radio cannot be played back

A list of broadcasting stations is not displayed.

- The LAN cable is not properly connected, or the network is disconnected. Check the connection status. (👉 p. 32)
- Perform the network diagnostic mode.

Internet Radio cannot be played.

- The selected radio station is broadcasting in a format that is not supported by this unit. Formats that can be played back in this unit are WMA, MP3 and MPEG-4 AAC. (👉 p. 118)
- The firewall function is enabled on the router. Check the firewall setting.
- The IP address is not properly set. (👉 p. 91)
- Check the power of the router is on.
- To obtain the IP address automatically, enable the DHCP server function on the router. Also, set the DHCP setting to “On” on this unit. (👉 p. 91)
- To obtain the IP address manually, set the IP address on this unit. (👉 p. 91)
- 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. (👉 p. 40)
- The selected radio station is not in service. Select a radio station in service.

Cannot connect to favorite radio stations.

- Radio station is not currently in service. Register radio stations in service.



Music files on PC or NAS cannot be played back (Music server)

Files stored on a computer cannot be played.

- Files are stored in a non-compatible format. Record in a compatible format. (🔗 p. 117)
- Files that are copyright protected cannot be played on this unit.
- Even if PC is connected to the USB port on this unit, music files on it cannot be played back. Connect PC to this unit through the network. (🔗 p. 32)
- Media sharing settings on the server or NAS do not allow this unit. Change the settings to allow this unit. For details, see the owner's manual of the server or NAS.

Server is not found, or it is not possible to connect to the server.

- The computer's or router's firewall is activated. Check the computer's or router's firewall settings.
- Computer's power is not turned on. Turn on the power.
- Server is not running. Launch the server.
- IP address of this unit is wrong. Check the IP address of this unit. (🔗 p. 86)

Files on PC or NAS are not displayed.

- Files of a type not supported by this unit are not displayed. (🔗 p. 117)

Music stored on a NAS cannot be played.

- If you use a NAS in conformity with the DLNA standard, enable the DLNA server function in the NAS setting.
- If you use a NAS that does not conform with the DLNA standard, play the music via a PC. Set Windows Media Player's media sharing function and add NAS to the selected play folder.
- If connection is restricted, set audio equipment as the connection target.



Various online services cannot be played

Various online services cannot be played.

- The online service may have been discontinued.

Cannot connect to a wireless LAN network

Cannot connect to the network.

- The network name (SSID), password and encryption setting have not been set up correctly. Configure the network settings according to the setting details of this unit. (👉 p. 90)
- Shorten the distance from the wireless LAN access point and remove any obstructions to improve access first before re-connecting again. Place the unit away from microwave ovens and other network access points.
- Configure the access point channel settings away from channels that are being used by other networks.
- This unit is not compatible with WEP (TSN).



Cannot connect to a WPS Router.

- Check that the WPS mode of the router is operating.
- Press the WPS button on the router and then press the ENTER button within 2 minutes. (👉 p. 89)
- A router/settings that are compatible with WPS 2.0 standards are required. Set the encryption time to “None”, WPA-PSK (AES) or WPA2-PSK (AES).
- If the router encryption method is WEP/WPA-TKIP/WPA2-TKIP, you cannot connect by using the WPS button on the router. In this case, use the “Auto-Scan” or “Manual” method to connect.

Cannot connect to the network using iPhone/iPod touch/iPad.

- Update the iPhone/iPod touch/iPad firmware to the latest version.
- When configuring the settings via a wireless connection, iOS 7 or later needs to be supported.



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

“Signal Unlock” is displayed.

- When digital audio signals cannot be detected properly, “Signal Unlock” is displayed. (🔍 p. 60)

“Unsupported” is displayed.

- “Unsupported” is displayed when audio signals that are not supported by this unit are input. Check the audio output signal format from your digital device. (🔍 p. 60)

The input source switches to “Optical 1”, “Optical 2” or “Coaxial”


The input source automatically switches to “Optical 1”, “Optical 2” or “Coaxial” when the TV connected to this unit is turned on.

- Set “Off” to “Auto-Play”. (🔍 p. 80)



Update/upgrade error messages

If an update/upgrade is interrupted or fails, an error message appears.

| Display | Description |
|---|--|
| Connection failed. Please check your network, then try again. | The network connection is unstable. Connection to the server failed. Check your network environment and try the update again. |
| Update failed. Please check your network, then try again. | The download of the firmware failed. Check your network environment and try the update again. |
| Upgrade failed. Please check your network, then try again. | The download of the firmware failed. Check your network environment and try the upgrade again. |
| Please check your network, unplug and reconnect the power cord, and try again. | The update failed. Press and hold the  on the main unit for more than 5 seconds, or remove and re-insert the power cord. The update restarts automatically. |
| Please contact customer service in your area. | This unit may be broken. Contact our Customer Service Center in your area. |



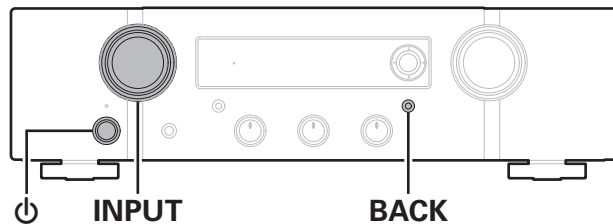
Resetting network settings



If network contents cannot be played or the unit cannot connect to the network, restarting the unit may improve the problem. We recommend restarting the unit before returning the settings to the default settings. (p. 97)

If the operations are not improved by restarting the unit, follow the steps below.

Network settings are reset to the factory default values. Make settings again.

However, the menu "Audio" settings are not reset.



- 1** Press  on the main unit to turn on power to the unit.
- 2** Turn the INPUT SELECTOR knob on this unit to select "Internet Radio", "Music Servers" or "USB Music".
- 3** Press and hold the BACK and  buttons on this unit for at least 3 seconds when the power is on.
- 4** Remove your fingers from the two buttons when "Please wait..." appears on the display.
- 5** "Completed" is shown in the display when reset is complete.

NOTE

- Do not turn the power off until reset is complete.



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/Apple Lossless/DSD) or 349 × 349 (MPEG-4 AAC), then music may not be played back properly.

■ Specifications of supported files

| | Sampling frequency | Bit rate | Extension |
|-------------------------|--------------------------------------|---------------|-----------|
| WMA*1 | 32/44.1/48 kHz | 48 – 192 kbps | .wma |
| MP3 | 32/44.1/48 kHz | 32 – 320 kbps | .mp3 |
| WAV | 32/44.1/48/88.2/ 96/176.4/192 kHz | – | .wav |
| MPEG-4 AAC*1 | 32/44.1/48 kHz | 48 – 320 kbps | .aac/.m4a |
| FLAC | 44.1/48/88.2/ 96/176.4/192 kHz | – | .flac |
| Apple Lossless*2 | 44.1/48/88.2/ 96/176.4/192 kHz | – | .m4a |
| DSD | 2.8/5.6 MHz | – | .dsf/.dff |

*1 Only files that are not protected by copyright can be played on this unit.

Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.

*2 The Apple Lossless Audio Codec (ALAC) decoder is distributed under the Apache License, Version 2.0 (<http://www.apache.org/licenses/LICENSE-2.0>).



■ Maximum number of playable files and folder

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

| Item \ Media | USB memory device |
|--------------------------------------|-------------------|
| Number of folder directory levels *1 | 8 levels |
| Number of folders | 500 |
| Number of files*2 | 5000 |

*1 The limited number includes the root folder.

*2 The allowable number of files may differ according to the USB memory device capacity and the file size.

D/A converter

■ Specifications of supported audio formats

□ Coaxial/Optical

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



Playing back a Bluetooth device

This unit supports the following Bluetooth profile.

- A2DP (Advanced Audio Distribution Profile):
When a Bluetooth device that supports this standard is connected, monaural and stereo sound data can be streamed at a high quality.
- AVRCP (Audio/Video Remote Control Profile):
When a Bluetooth device that supports this standard is connected, the Bluetooth device can be operated from this unit.

■ About Bluetooth communications

Radio waves broadcast from this unit may interfere with the operation of medical devices. Make sure you turn off the power of this unit and Bluetooth device in the following locations as radio wave interference may cause malfunctions.

- Hospitals, trains, aircraft, petrol kiosks and places where flammable gases are generated
- Near automatic doors and fire alarms



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.

For playing mentioned audio formats via a network a server software, for example Twonky Media Server or jRiver Media Server, needs to be installed on your computer or NAS for full support. There are other server software available too. Please check supported formats.

■ Specifications of supported files

| | Sampling frequency | Bit rate | Extension |
|------------------|--------------------------------------|---------------|-----------|
| WMA*1 | 32/44.1/48 kHz | 48 – 192 kbps | .wma |
| MP3 | 32/44.1/48 kHz | 32 – 320 kbps | .mp3 |
| WAV | 32/44.1/48/88.2/96/ 176.4/192 kHz | – | .wav |
| MPEG-4 AAC*1 | 32/44.1/48 kHz | 48 – 320 kbps | .aac/.m4a |
| FLAC | 44.1/48/88.2/ 96/176.4/192 kHz | – | .flac |
| Apple Lossless*2 | 44.1/48/88.2/ 96/176.4/192 kHz | – | .m4a |
| DSD | 2.8/5.6 MHz | – | .dsf/.dff |

*1 Only files that are not protected by copyright can be played on this unit.

Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc., on a computer may be copyright protected, depending on the computer's settings.

*2 The Apple Lossless Audio Codec (ALAC) decoder is distributed under the Apache License, Version 2.0 (<http://www.apache.org/licenses/LICENSE-2.0>).



Playing back Internet Radio

■ Playable broadcast station specifications

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

Last function memory

This function stores the settings which were made before going into the standby mode.



Explanation of terms

■ Audio

Apple Lossless Audio Codec

This is a codec for lossless audio compression method developed by Apple Inc. This codec can be played back on iTunes, iPod or iPhone. Data compressed to approximately 60 – 70 % can be decompressed to exactly the same original data.

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.

FLAC (Free Lossless Audio Codec)

FLAC stands for Free lossless Audio Codec, and is a lossless free audio file format. Lossless means that the audio is compressed without any loss in quality.

The FLAC license is as shown below.

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Josh Coalson

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MP3 (MPEG Audio Layer-3)

This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD.

MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4

These are the names for digital compression format standards used for the encoding of video and audio. Video standards include "MPEG-1 Video", "MPEG-2 Video", "MPEG-4 Visual", "MPEG-4 AVC". Audio standards include "MPEG-1 Audio", "MPEG-2 Audio", "MPEG-4 AAC".

WMA (Windows Media Audio)

This is 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.

Speaker impedance

This is an AC resistance value, indicated in Ω (ohms). Greater power can be obtained when this value is smaller.

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.

■ Network

AirPlay

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

WEP Key (network key)

This is key information used for encrypting data when conducting data transfer. On this unit, the same WEP key is used for data encryption and decryption, so the same WEP key must be set on both devices in order for communications to be established between them.

Wi-Fi®

Wi-Fi Certification assures tested and proven interoperability by the Wi-Fi Alliance, a group certifying interoperability among wireless LAN devices.

WPA (Wi-Fi Protected Access)

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

WPA2 (Wi-Fi Protected Access 2)

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



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

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

Network Names (SSID: Service Set Identifier)

When forming wireless LAN networks, groups are formed to prevent interference, data theft, etc. These groups are based on “SSID (network names)”. For enhanced security, a WEP key is set so that communication is unavailable unless both the “SSID” and the WEP key match. This is suitable for constructing a simplified network.

■ Other**Source direct**

Playback with higher fidelity to the source becomes possible, as input audio signals are output by bypassing the audio quality-control circuits (BASS/TREBLE/BALANCE).

Pairing

Pairing (registration) is an operation that is required in order to connect a Bluetooth device to this unit using Bluetooth. When paired, the devices authenticate each other and can connect without mistaken connections occurring.

When using Bluetooth connection for the first time, you need to pair this unit and the Bluetooth device to be connected.

Protection circuit

This is a function to prevent damage to devices within the power supply when an abnormality such as an overload, excess voltage occurs or over temperature for any reason.



Trademark information



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Wi-Fi Certification provides assurance that the device has passed the interoperability test conducted by the Wi-Fi Alliance, a group that certifies interoperability among wireless LAN devices.



Specifications

■ Audio amplifier

| | |
|--|---|
| RMS Power output (20 Hz – 20 kHz simultaneous drive of both channels) : | 60 W x 2 (8 Ω /ohms load) 80 W x 2 (4 Ω /ohms load) |
| Total harmonic distortion (20 Hz – 20 kHz simultaneous drive of both channels, 8 Ω/ohms load) : | 0.02 % |
| Frequency response (CD, 1 W, 8 Ω/ohms load) : | 5 Hz – 100 kHz \pm 3 dB |
| Dumping factor (8 Ω/ohms load, 20 Hz – 20 kHz) : | 100 and over |
| Input sensitivity/impedance: | PHONO (MM): 2.0 mV / 47 k Ω /kohms CD, AUX, RECORDER: 220 mV/18 k Ω /kohms |
| Output voltage: | SUBWOOFER OUT: 240 mV |
| Maximum allowable PHONO input level (1 kHz) MM : | 80 mV |
| RIAA deviation (20 Hz – 20 kHz) : | \pm 0.5 dB |
| S/N (IHF-A, 8 Ω/ohms load): | PHONO (MM): 87 dB (5 mV input, 1 W output) CD, AUX, RECORDER: 115 dB (2 V input, rated output) |
| Tone control: | BASS (50 Hz): \pm 10 dB TREBLE (15 kHz): \pm 10 dB |



■ Wireless LAN section

| | |
|--|--|
| Network type (wireless LAN standard): | Conforming to IEEE 802.11a/b/g/n (Wi-Fi® compliant) *1 |
| Security: | WEP 64 bit, WEP 128 bit WPA/WPA2-PSK (AES) WPA/WPA2-PSK (TKIP) |
| Used frequency range: | 2.4 GHz, 5 GHz |

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■ Bluetooth section

| | |
|-------------------------------------|--|
| Communications system: | Bluetooth Specification Version 4.1 |
| Transmission power: | Bluetooth Specification Power Class 1 |
| Maximum communication range: | Approx. 30 m in line of sight *2 |
| Used frequency range: | 2.4 GHz |
| Modulation scheme: | FHSS (Frequency-Hopping Spread Spectrum) |
| Supported profiles: | A2DP (Advanced Audio Distribution Profile) 1.2 AVRCP (Audio Video Remote Control Profile) 1.5 |
| Corresponding codec: | SBC |
| Transmission range (A2DP): | 20 Hz – 20,000 Hz |

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





■ General

Operating temperature: +5 °C - +35 °C

Power supply: AC 230 V, 50/60 Hz

Power consumption: 220 W

Power consumption in standby modes :

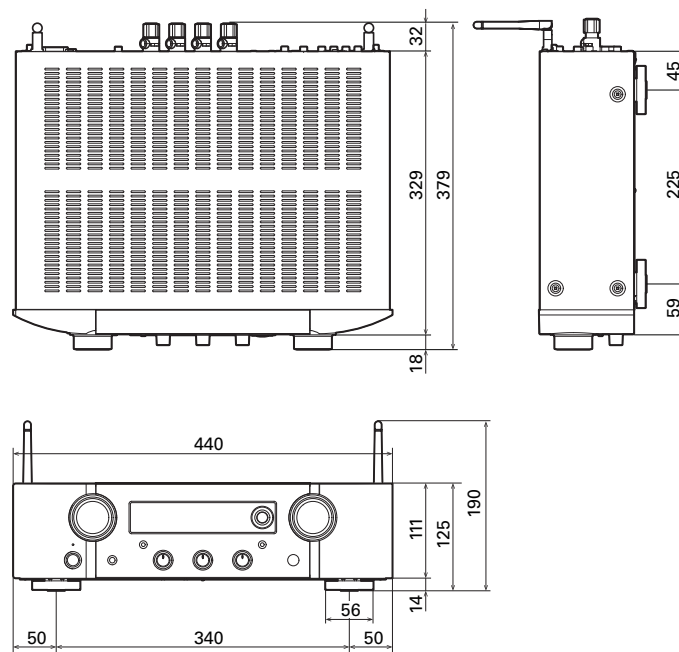
| Standby modes | Setting items in the menu | | Power consumption |
|--|---|--|-------------------|
| | Network Control ( p. 87) | Auto-Play ( p. 80) | |
| Optical standby (Auto-Play-“On”) | Off | On | 0.7 W |
| Normal standby (Auto-Play-“Off”) | Off | Off | 0.4 W |
| Network standby (Bluetooth) / (Wi-Fi) *3 | On | On | 4.5 W |
| Network control (Ethernet) *3 | On | On | 4.5 W |

*3 When this unit enters standby after audio playback using the function in parentheses.

- For purposes of improvement, specifications and design are subject to change without notice.



■ Dimensions (Unit : mm)



■ Weight : 10.8 kg



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| Open Source Used | Version |
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| bridge-utils | 2.8 |
| busybox | 1.21.1 |
| e2fsprogs | 2.0.10-4 |
| Linux kernel | 3.10.74 |
| mtd-utils | 1.4.3 |
| ntfs-3g_ntfsprogs | 2011.4.12 |
| ntpclient | 2007 |
| u-boot | 2015.01 |
| wireless-tools | 29 |



❑ LGPL

| Open Source Used | Version |
|------------------|---------|
| ffmpeg | 0.8.3 |
| glibc | 2.9 |
| libmms | 0.6.2 |

❑ curl-7.24.0

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❑ e2fsprogs-libs-1.40.8/lib/uuid

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❑ expat-2.0.1

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❑ getopt

<http://cvswb.netbsd.org/bsdweb.cgi/src/lib/libc/stdlib/>

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❏ libtar-1.2.11

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❏ mDNS 320.10.80

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❏ mongoose

<https://github.com/cesanta/mongoose/>

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❑ rl78flash 2000.3.1

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❑ sqlite 2003.5.7

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❑ strcpy.c , v1.11

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❑ taglib-1.5

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❏ tinyxml 2002.4.3

www.sourceforge.net/projects/tinyxml

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❏ Tremor

<http://wiki.xiph.org/index.php/Tremor>

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**zlib**

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

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

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