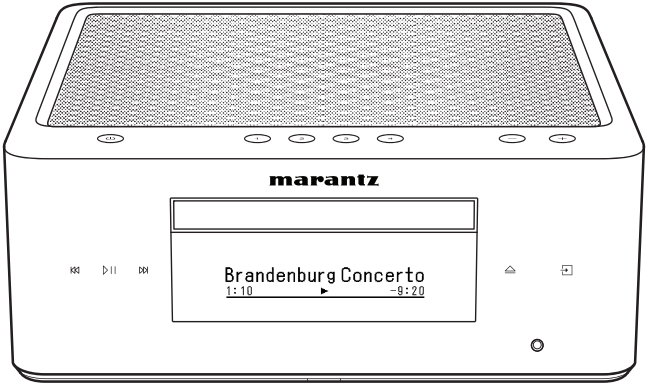
marantz



MCR 60n DAB | Network CD Receiver

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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.

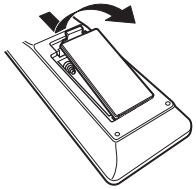
Accessories

Check that the following parts are included with the product.

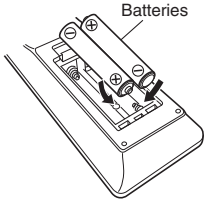
Quick Start Guide	Safety Instructions	Cautions on Using Batteries	Notes on radio
Power cord	Remote control unit (RC016CR)	2× R03/AAA batteries	DAB/FM indoor antenna

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.**



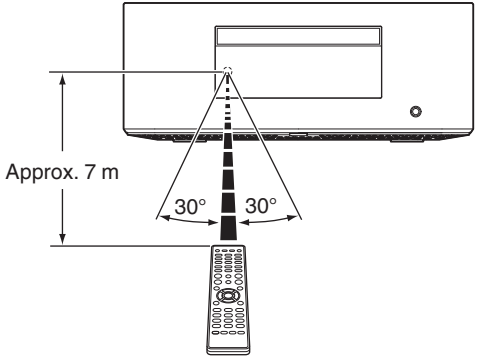
3 **Put the rear lid back on.**

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

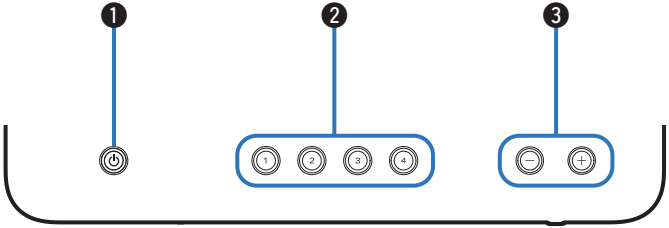
Point the remote control unit at the remote sensor when operating it.



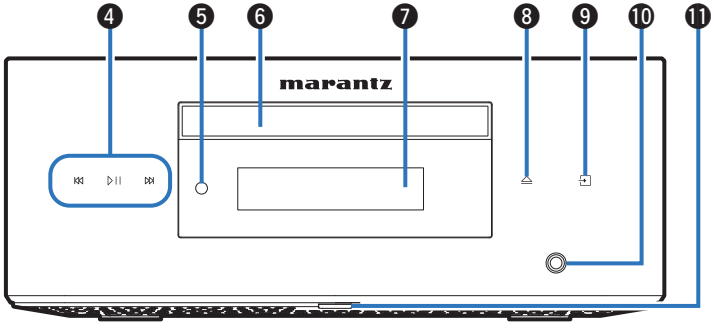
Part names and functions

Front/Top panel

【Top panel】

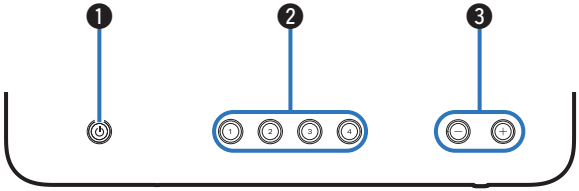


【Front panel】

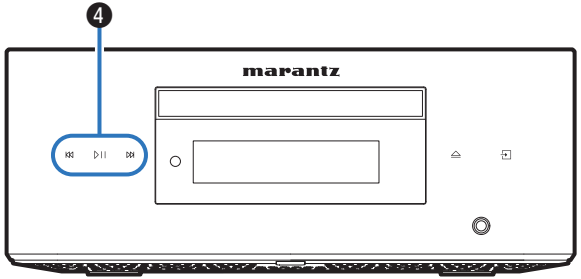


For details, see the next page.

【Top panel】



【Front panel】



❶ **Power (⏻) button**

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

Power indicator

This is lit as follows according to the power status:

- White: Power on
- Off: Standby

❷ **Smart Select buttons (1 – 4)**

These call up settings registered to each button, such as input source, volume level and audio related settings. (☞ p. 87)

❸ **Volume buttons (+—)**

Adjusts the volume. (☞ p. 36)

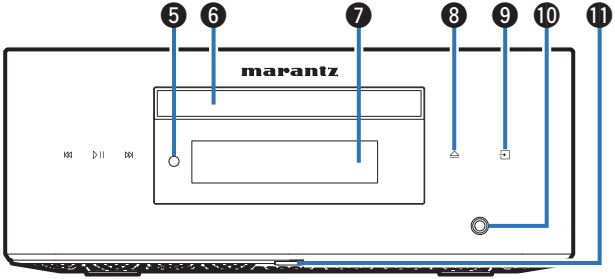
❹ **System keys**

These perform playback related operations.

- Play/Pause key (▷II)
  Press this key to pause during playback. If pressed while paused or stopped, resumes playback.
- Forward-skip key (⏭)
  Press this key during playback to play the next track.
- Reverse-skip key (⏮)
  Press this key during playback to restart the current track or play the previous track.

- Depending on the input source and online service, the operation cannot be performed.

【Front panel】



❺ **Remote control sensor**
This receives signals from the remote control unit. (☞ p. 8)

❻ **Disc tray**
Used to insert a disc. (☞ p. 145)

❼ **Display**
This displays various pieces of information.

❽ **Disc tray open/close key (⏏)**
Opens and closes the disc tray. (☞ p. 63)

❾ **Input source switching key ( )**
This selects the input source. (☞ p. 36)

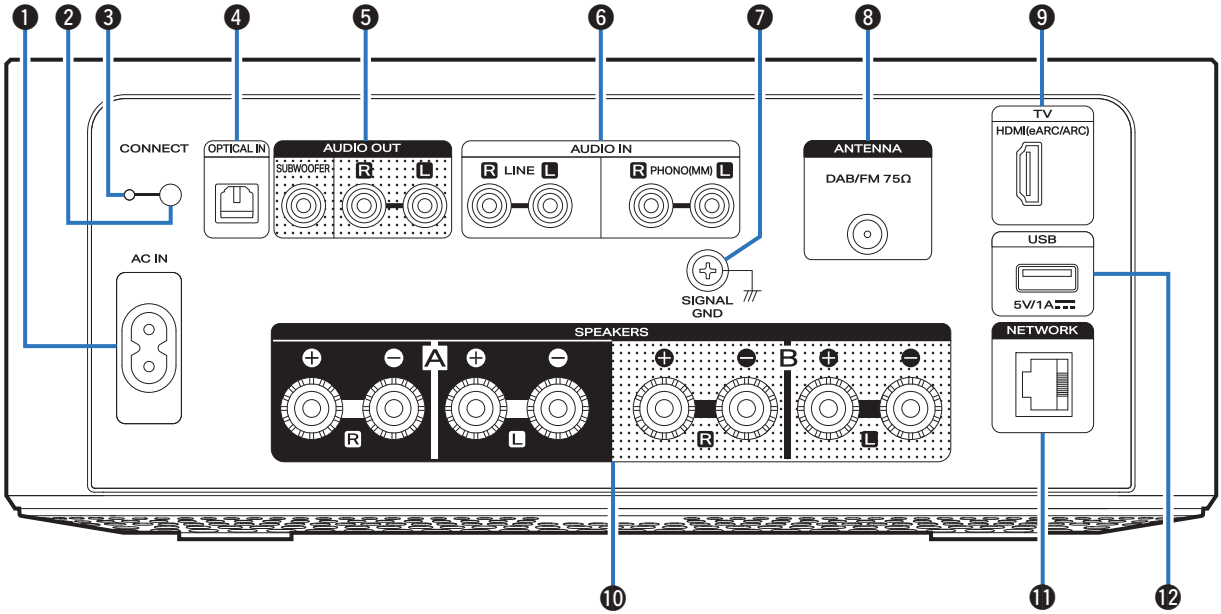
❿ **Headphones jack**
Used to connect headphones.
When the headphones are plugged into this jack, audio will no longer be output from the speaker terminals and AUDIO OUT connectors (including the SUBWOOFER connector).

NOTE

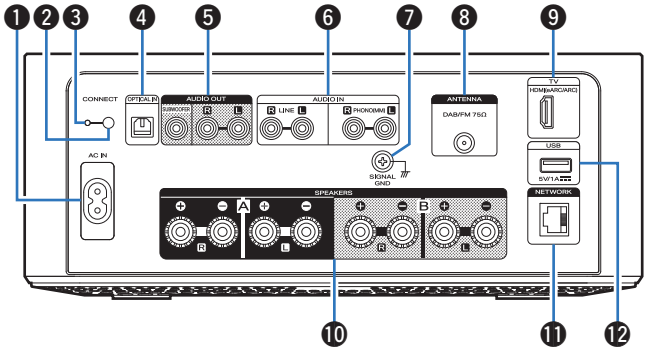
- To prevent hearing loss, do not raise the volume level excessively when using headphones.

⓫ **Status LED**
Please refer to the “Status LED table” (☞ p. 137) for LED color and state meaning.

Rear panel



For details, see the next page.



❶ **AC inlet (AC IN)**
Used to connect the power cord. (☞ p. 32)

❷ **CONNECT button**
Used for Wi-Fi setup.

❸ **CONNECT LED**
Indicates the status of this unit. (☞ p. 137)

❹ **OPTICAL IN connector**
Connecting to a device with optical digital audio output connector. (☞ p. 26)

❺ **AUDIO OUT connectors**
Used to connect a subwoofer or powered speakers.
- "Connecting the subwoofer" (☞ p. 24)
- "Connecting powered speakers" (☞ p. 25)

❻ **AUDIO IN connectors**
Connecting to a device with analog audio output connectors. (☞ p. 27)

❼ **SIGNAL GND terminal**
Used to connect a ground wire for the turntable. (☞ p. 27)

❽ **DAB/FM antenna terminal (ANTENNA)**
Used to connect a DAB/FM antenna. (☞ p. 29)

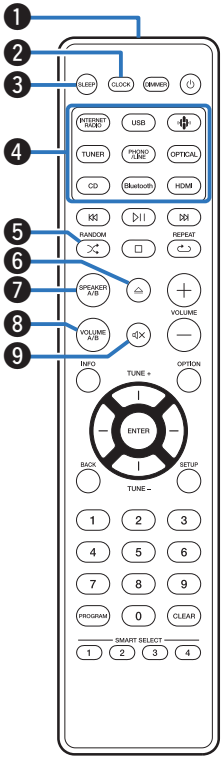
❾ **TV connector (HDMI (eARC/ARC))**
Used to connect an eARC/ARC function-compatible TV. (☞ p. 26)

❿ **Speaker terminals (SPEAKERS)**
Used to connect speakers. (☞ p. 19)

⓫ **NETWORK connector**
Used to connect to a LAN cable when connecting to a wired LAN network. (☞ p. 30)

⓬ **USB port**
Used to connect USB storage devices (such as USB flash drives). (☞ p. 28)

Remote control unit



❶ **Remote control signal transmitter**
This transmits signals from the remote control unit. (☞ p. 8)

❷ **CLOCK button**
The current time appear on the unit. (☞ p. 86)

❸ **SLEEP button**
This sets the sleep timer. (☞ p. 86)

❹ **Input source select buttons**
These select the input source. (☞ p. 36)

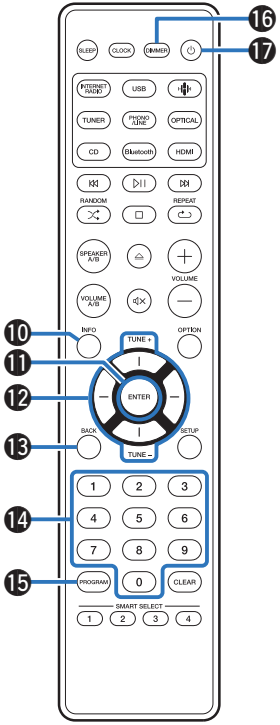
❺ **RANDOM button (⤮)**
Switches the random playback.

❻ **Disc tray open/close button (⏏)**
Opens and closes the disc tray. (☞ p. 63)

❼ **SPEAKER A/B button**
Used to switch the speaker for audio output when “Amplifier Mode” is set to “Standard (A, B, or A+B)”. (☞ p. 89)

❽ **VOLUME A/B button**
Used to select the speaker for volume adjustment when both speaker A and speaker B are enabled. (☞ p. 89)

❾ **Mute button (🔇)**
This mutes the output audio. (☞ p. 36)



⑩ Information button (INFO)

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

⑪ ENTER button

This determines the selection.

⑫ Cursor buttons

These select items.

Tuning buttons (TUNE +, –)

These operate the tuner. (☞ p. 69)

⑬ BACK button

Returns to the previous item.

⑭ Number buttons (0 – 9)

These enter numbers into the unit.

⑮ PROGRAM button

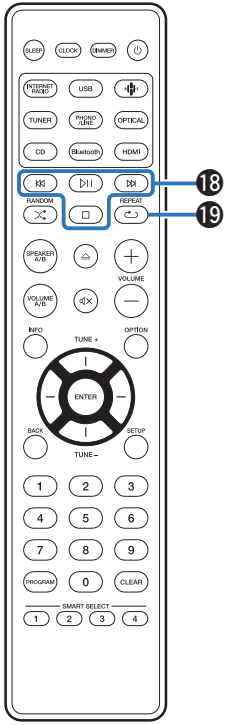
- This sets program playback. (☞ p. 65)
- This switches the playback range on a data CD. (☞ p. 68)

⑯ DIMMER button

Adjust the display brightness of this unit. (☞ p. 85)

⑰ Power (⏻) button

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



⓲ System buttons

These perform playback related operations.

- Play/Pause button (▷II)

  Press this button to pause during playback. If pressed while paused or stopped, resumes playback from the last track played.
- Forward-skip button (⏭)

  Press this button during playback to play the next track.

  Press this button during tuner playback to select stations registered to the preset list. (☞ p. 71)
- Reverse-skip button (⏮)

  Press this button during playback to restart the current track or play the previous track.

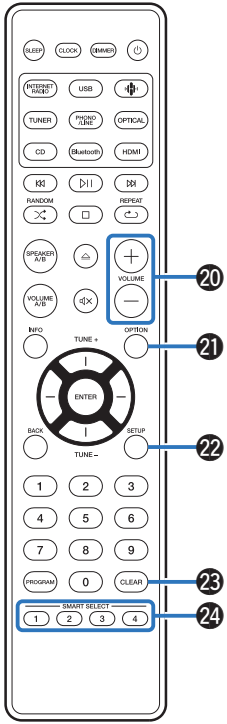
  Press this button during tuner playback to select stations registered to the preset list. (☞ p. 71)
- Stop button (□)

  Press this button to stop during playback.

- Depending on the input source and online service, the operation cannot be performed.

⓳ REPEAT button (↻)

Switches the repeat playback.



⓴ VOLUME buttons (+−)
Adjusts the volume. (☞ p. 36)

㉑ OPTION button
This displays the option menu on the display.

㉒ SETUP button
The setting menu is displayed on the display. (☞ p. 95)

㉓ CLEAR button
- This clears the entered number.
- This clears the program registration. (☞ p. 65)

㉔ SMART SELECT buttons (1 – 4)
These call up settings registered to each button, such as input source, volume level and audio related settings. (☞ p. 87)

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NOTE

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

Cables used for connections

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

Speaker cable	
Subwoofer cable	
HDMI cable	
Optical cable	
Audio cable	
LAN cable	

Connecting speakers

This unit has a built-in four-channel amplifier and allows you to select from three amplifier modes according to your speaker configuration and listening preferences.

- **Standard (A, B, or A+B) (BTL connection)**

  You can connect one or two pairs of speakers to the unit and control the volume independently.

  For more information, see “Standard (A, B, or A+B) connection (BTL connection)” (☞ p. 21).

- **Parallel BTL**

  You can enjoy more powerful and clearer sound with improved low-frequency control. Only one pair of speakers can be connected in this mode.

  For more information, see “Parallel BTL connection” (☞ p. 22).

- **Bi-Amp**

  You can enjoy clearer, more transparent sound with improved channel separation using dedicated amplifiers for high and low frequencies. Speakers with separate tweeter and woofer terminals are required.

  For more information, see “Bi-Amp connection” (☞ p. 23).

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. 155)
- 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.

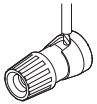
Connecting the speaker cables

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

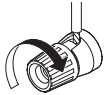
1 **Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.**

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

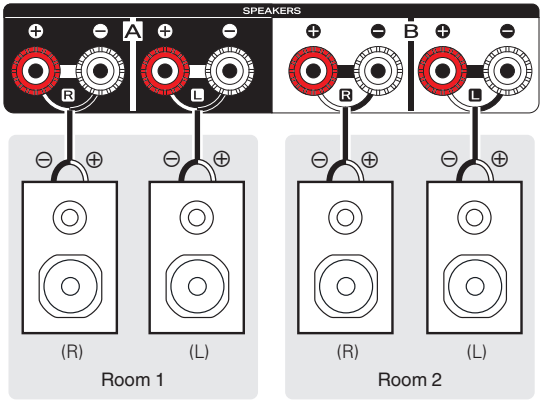
3 **Insert the speaker cable's core wire to the hilt into the speaker terminal.**



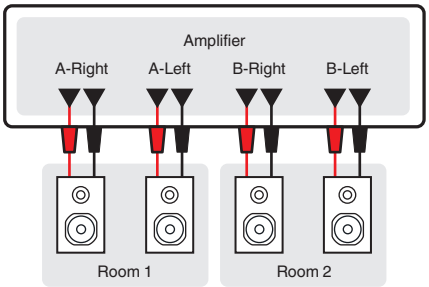
4 **Turn the speaker terminal clockwise to tighten it.**



Standard (A, B, or A+B) connection (BTL connection)



In this connection, you can connect one or two pairs of speakers to the unit. One pair of speakers can be driven by a two-channel amplifier, while the remaining two-channel amplifier can be used to drive the other pair of speakers. When connected to two pairs of speakers, you can play sound on all four speakers simultaneously or switch between them, and you can control the volume independently.

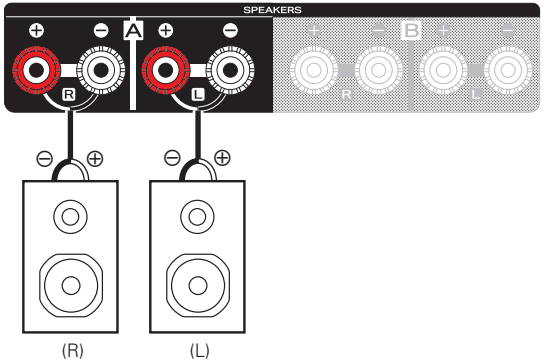


- When using this connection, set “Speakers” – “Amplifier Mode” in the settings menu to “Standard (A, B, or A+B)”. (☞ p. 101)
- A pair of speakers can also be connected to the SPEAKERS A terminals.
- By connecting speaker B in addition to speaker A, multi-drive connection can be performed to enjoy audio output separately or from both speakers. (☞ p. 88)

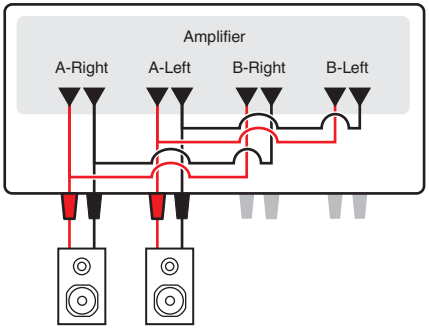
NOTE

- The same sound is output from both pairs. You cannot play two different sources on each pair.

Parallel BTL connection

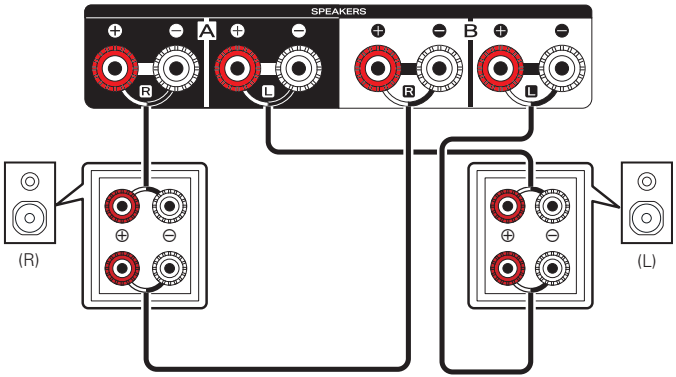


In this connection, a pair of speakers connected to the SPEAKERS A terminals are driven by all four-channel amplifiers, achieving approximately twice the driving power. This improves control of the low-frequency range and enables you to enjoy more powerful, clearer sound. In this connection, only one pair of speakers can be connected.

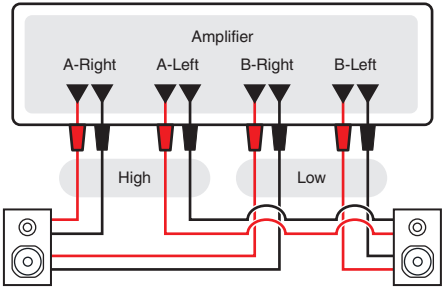


- When using this connection, set “Speakers” – “Amplifier Mode” in the settings menu to “Parallel BTL”. (☞ p. 101)

Bi-Amp connection



In this connection, all four-channel amplifiers are used to drive a single pair of speakers, with the high and low frequencies each driven by independent amplifiers. This achieves excellent channel separation, enables you to enjoy a clearer, more transparent sound. To use this option, you will need a pair of bi-amp compatible speakers equipped with separate tweeter and woofer terminals.



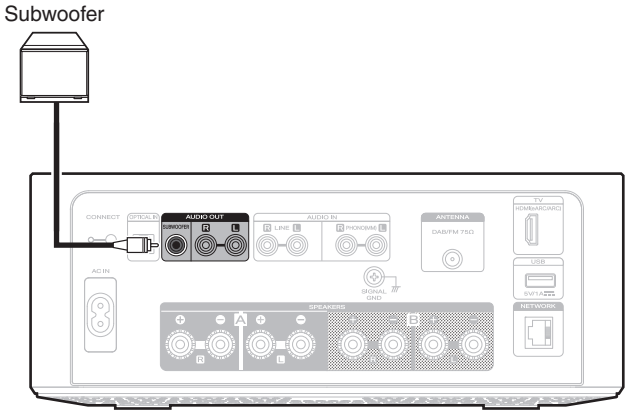
- When using this connection, set “Speakers” – “Amplifier Mode” in the settings menu to “Bi-Amp”. (☞ p. 101)

NOTE

- When making bi-amp connections, be sure to remove the short-circuiting plate or wire between the speaker’s woofer and tweeter terminals.

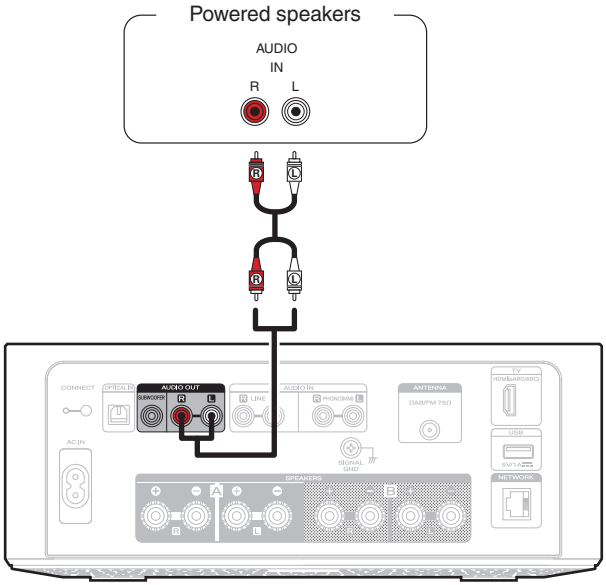
Connecting the subwoofer

Use a subwoofer cable to connect the subwoofer.



- The subwoofer volume is linked to the Speaker A volume.
- When the speaker for audio output is set to “Speaker B = On”, this unit does not output to the subwoofer. (☞ p. 89)

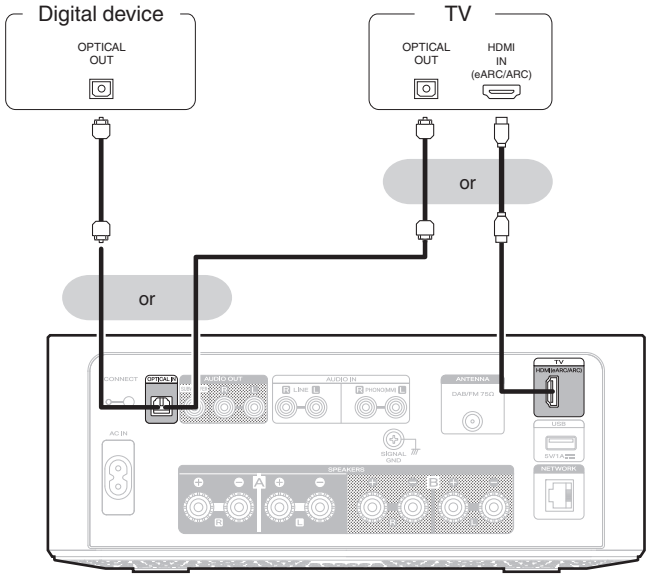
Connecting powered speakers



- Volume control of analog audio output can be switched between “Variable” and “Fixed”. (☞ p. 100)
- When the analog audio output is set to “Variable”, that volume is linked to speaker A volume. (☞ p. 100)
- When the speaker for audio output is set to “Speaker B = On”, this unit does not perform analog audio output. (☞ p. 89)
- When connecting powered speakers to this unit, see the owner’s manual of your powered speakers for details.

Connecting a digital device

Connect this unit to a device with digital output connectors, such as a TV.



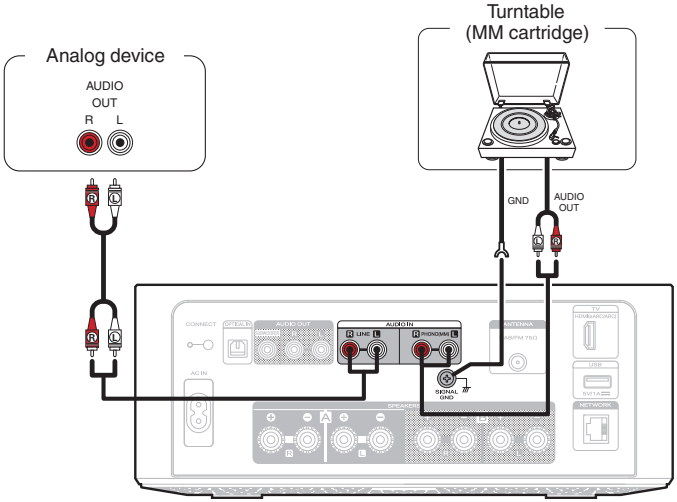
- When connecting a TV to this unit, turn off the audio output of the TV's internal speakers. See the owner's manual of your TV for details.
- When connecting the HDMI eARC/ARC terminal of this unit to your TV, connect it to the HDMI input terminal of your TV that supports the eARC/ARC function.
- When connecting to a TV that does not support the eARC/ARC function, use an Optical connection to play the TV audio.

Specifications of supported audio formats

See "Digital input" (☞ p. 147).

Connecting an analog device

You can connect this unit to various devices with analog audio output.
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.

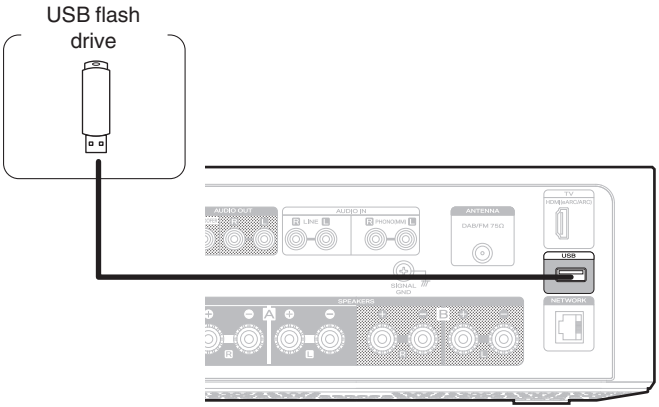


NOTE

- 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 USB flash drive to the USB port

For operating instructions see “Playing a USB flash drive” (☞ p. 42).



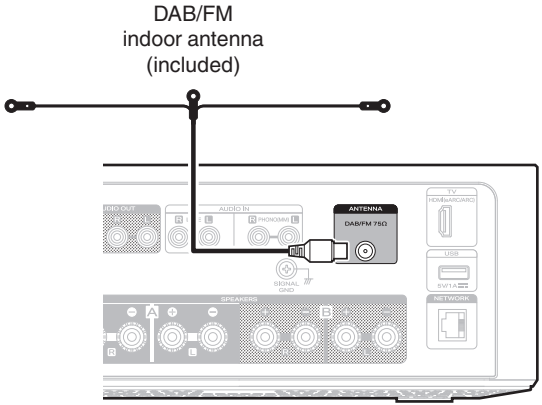
- Marantz does not guarantee that all USB flash drives will operate or receive power. When using a portable USB hard disk drive (HDD) which came with an AC adapter, use that device’s included AC adapter.

NOTE

- USB flash drives 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 flash drive. This may cause radio interference with other devices.

Connecting a DAB/FM antenna

After connecting the antenna and receiving a broadcast signal, fix the antenna with tape in a position where the noise level becomes minimal.
“Listening to DAB/FM broadcasts” (☞ p. 69)



- For best results with the included indoor antenna, orient the antenna along a wall such that it is stretched out horizontally and parallel to the floor (but above the floor), and then fasten the two end tabs to the wall. This type of antenna is directional and best results will be obtained when it is correctly oriented toward the transmitting location.
- For example, if the transmission tower is to the north, then the two ends of the antenna (with the tabs) should be stretched toward west and east.
- If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit.

Connecting to a home network (LAN)

This unit can connect to a network using a wired LAN or wireless LAN.

You can connect this unit to your home network (LAN) to enable various types of playback and operations as described below.

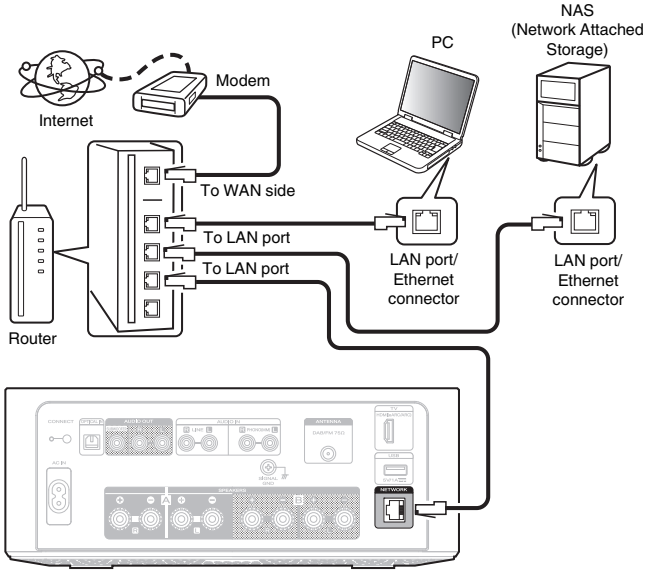
- Playback of network audio such as Internet Radio and from your media server(s)
- Playback of streaming music services
- Using the Apple AirPlay function
- Operation on this unit via the network
- Operation with the HEOS wireless multi-room sound system
- Firmware Update

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

- When ◇ is displayed on the display of this unit, this unit is not connected to a network.

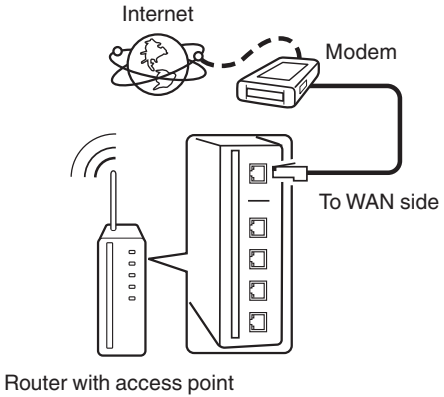
Wired LAN

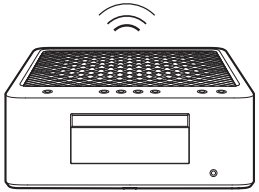
To make connections via wired LAN, use a LAN cable to connect the router to this unit as shown in the figure below.



Wireless LAN

To connect to a wireless LAN router, download the HEOS app to your smartphone, and set up this unit. (☞ p. 53)





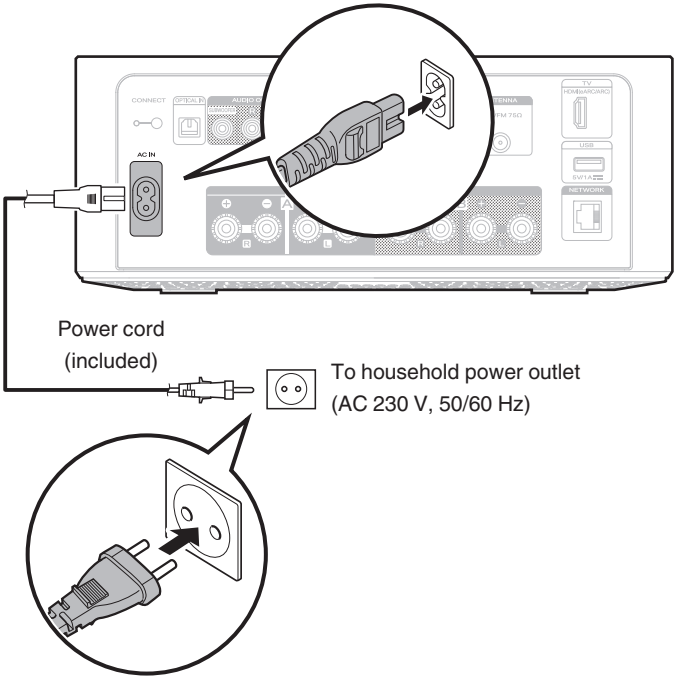
- When using this unit, we recommend you use a router equipped with the following functions:
  - Built-in DHCP server
    This function automatically assigns IP addresses on the LAN.
  - Built-in 100BASE-TX switch
    When connecting multiple devices, we recommend a switching hub with a speed of 100 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.

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 the power cord

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



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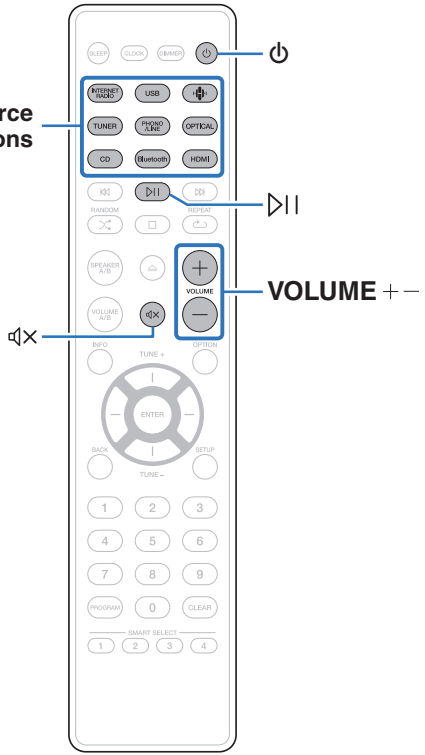
Basic operation



Turning the power on

1 **Press ⏻ to turn on power to the unit.**

The power indicator lights in white.

- You can also press ⏻ 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 ⏻.**

The unit switches to standby mode.

- You can also switch the power to standby by pressing ⏻ 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 DAB and FM each time TUNER is pressed.
- You can also select the input source by touching ⇥ on the main unit.
- The HEOS app can be used to hide an input source which is not being used, so it cannot be selected, or to rename the displayed input source. (☞ p. 115)

Adjusting the volume

1 Use VOLUME +— to adjust the volume.

The volume level appears on the display.

- You can also adjust the volume by pressing VOLUME +— on the main unit.

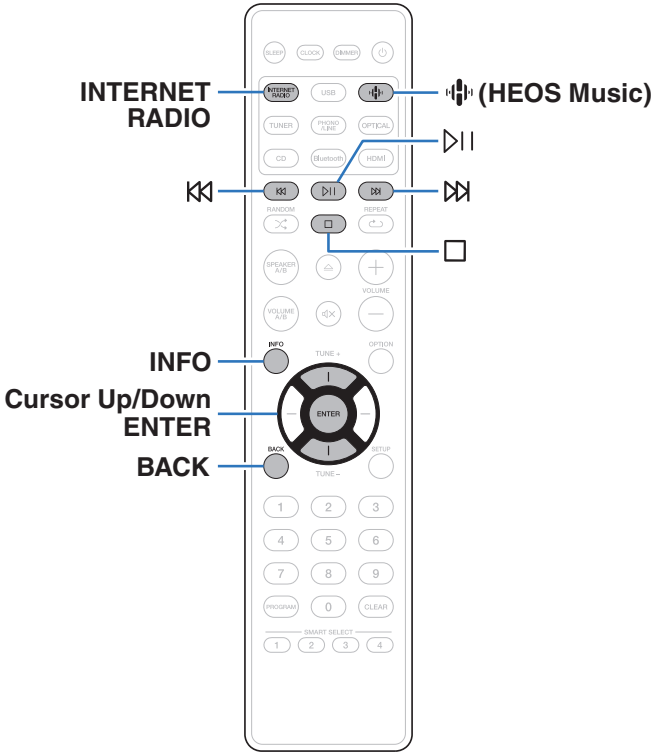
Turning off the sound temporarily (Muting)

1 Press 🔇.

“Mute” is displayed on the display.

- To cancel mute, either adjust the volume or press 🔇 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. 149) for details.
  - **WMA**
  - **MP3**
  - **MPEG-4 AAC**

Listening to Internet Radio

1 **Press INTERNET RADIO.**

- You can also press (HEOS Music). Use Cursor Up/Down buttons to select “Internet Radio”, then press ENTER.

2 **Select the station you want to play.**

Operation buttons	Function
▷II *	Playback / Pause
□	Stop
⏮ ⏭ *	Skip to previous track / Skip to next track
Cursor Up/Down	Select the item
ENTER	Enter the selected item / Playback
BACK	Moving up a level in the hierarchy
INFO	Switching the song name - artist name, radio station name and file format

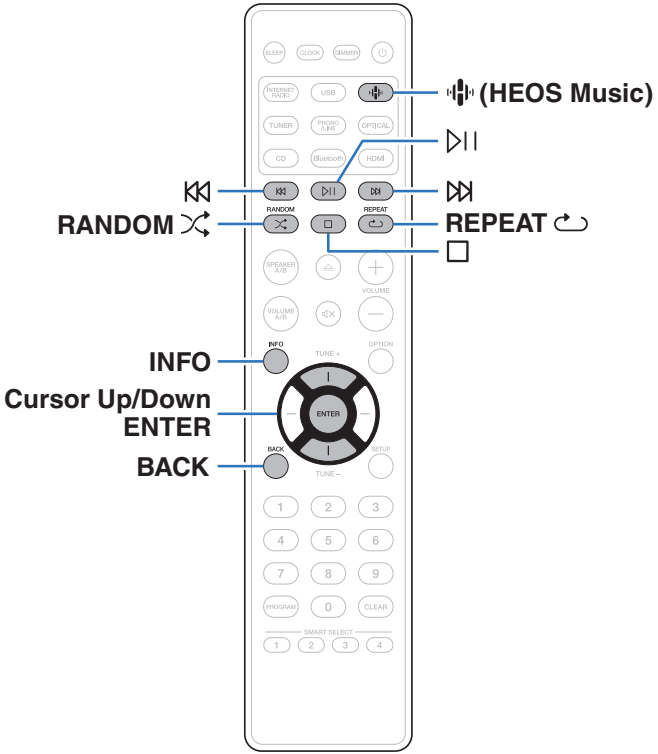
* Enabled when playing Podcasts.

- 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. 148) 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 (HEOS Music).

If a playback history is present, the last Internet radio station or song played is played back. Pressing (HEOS Music) again displays the HEOS Music top menu.

2 Use Cursor Up/Down buttons to select “Music Servers”, then press ENTER.

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

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

- 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 currently playing track and plays it when the currently playing track ends.
Add to End of Queue:	Adds the item to the end of the queue.

5 **Use Cursor Up/Down buttons to select the “Play Now” or “Play Now & Replace Queue”, then press ENTER.**

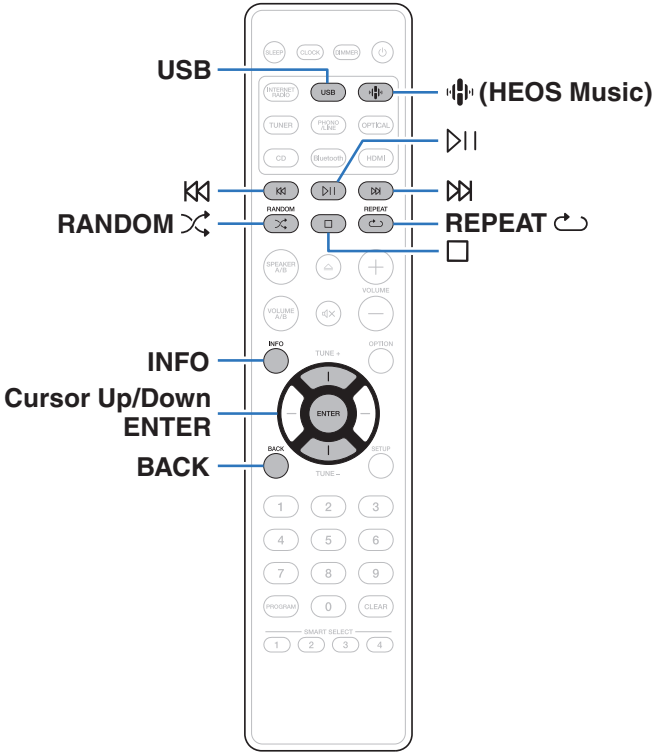
Playback starts.

Operation buttons	Function
⏯	Playback / Pause
◻	Stop
⏮ ⏭	Skip to previous track / Skip to next track
Cursor Up/Down	Select the item
ENTER	Enter the selected item
BACK	Moving up a level in the hierarchy
REPEAT ⟲	Repeat playback • Switching between Single-track repeat and All-track repeat
RANDOM ⤮	Random playback
INFO	Switching the song name - artist name, album name and file format

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 flash drive



- Playing back music files stored on a USB flash drive.
- Only USB flash drives conforming to mass storage class standards can be played on this unit.
- This unit is compatible with USB flash drives 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 flash drives” (☞ p. 143) for details.
  - **WMA**
  - **MP3**
  - **WAV**
  - **MPEG-4 AAC**
  - **FLAC**
  - **Apple Lossless**
  - **DSD**

Playing files stored on USB flash drives

1 **Insert the USB flash drive into the USB port.**

2 **Press USB to switch the input source to “USB Music”.**

- You can also press (HEOS Music). Use Cursor Up/Down buttons to select “USB Music”, then press ENTER.

3 **Select the name of this unit.**

4 **Browse the music on your USB flash drive 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 currently playing track and plays it when the currently playing track ends.
Add to End of Queue:	Adds the item to the end of the queue.

5 **Use Cursor Up/Down buttons to select the “Play Now” or “Play Now & Replace Queue”, then press ENTER.**

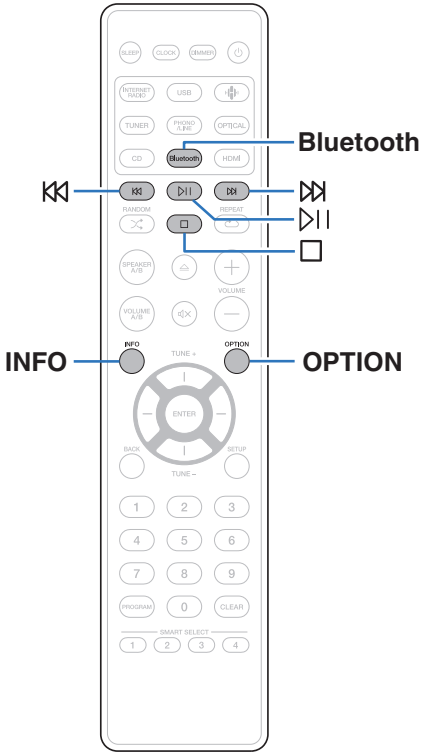
Playback starts.

Operation buttons	Function
⏯	Playback / Pause
◻	Stop
⏮ ⏭	Skip to previous track / Skip to next track
Cursor Up/Down	Select the item
ENTER	Enter the selected item / Playback
BACK	Moving up a level in the hierarchy
REPEAT ↻	Repeat playback • Switching between Single-track repeat and All-track repeat
RANDOM ⤮	Random playback
INFO	Switching the song name - artist name, album name and file format

NOTE

- Note that Marantz will accept no responsibility whatsoever for any problems arising with the data on a USB flash drive when using this unit in conjunction with the USB flash drive.
- When a USB flash drive is connected to this unit, the unit loads all of the files on the USB flash drive. Loading may take a while if the USB flash drive 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.

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.

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
□	Stop
⏮ ⏭	Skip to previous track / Skip to next track
INFO	Switching the song name - artist name, Bluetooth device name, album name and codec.

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.**

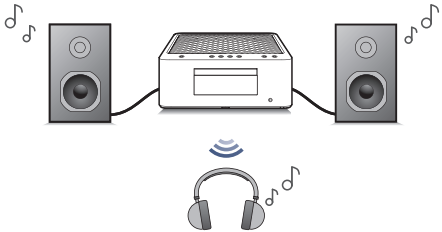
3 **Select this unit from the Bluetooth device list on your Bluetooth device.**

4 **Play music using any app on your Bluetooth device.**

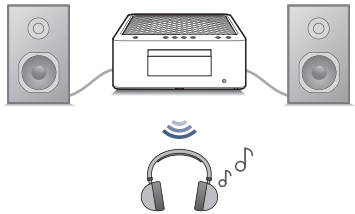
- When the power of this unit and the Bluetooth function of this unit are turned on, the input source will be automatically switched to “Bluetooth” if a Bluetooth device is connected.
- When the “Network Control” setting of this unit is set to “On” and a Bluetooth device is connected and is played with the unit in the standby state, the power of the unit will be turned on automatically. (☞ p. 111)

Listening to audio on Bluetooth headphones

You can listen to the sounds that are played back in this device from Bluetooth headphones.
Output audio from connected speakers and Bluetooth headphones simultaneously, or only using Bluetooth headphones.



(Output Mode: HP+ Speakers)



(Output Mode: Headphones)

Listening to audio on Bluetooth headphones

1 **Set “Headphone” to “On” from the “Network” - “Bluetooth” setting in the setup menu.** (☞ p. 110)

2 **Select “Output Mode”, and set audio output.**

HP + Speakers (Default)**:**	Audio is output to Bluetooth headphones and speakers. This simultaneous output is suitable for family movie night and other group activities.
Headphones:	Audio is output to Bluetooth headphones only. This is suitable for listening to music or watching movies by yourself at night when you need to keep quiet.

3 **Enter pairing mode on the Bluetooth headphones you want to connect to this unit.**

4 **Select “Devices” and select the name of the Bluetooth headphones from the device list.**

5 **Adjust the volume of connected Bluetooth headphones after the connection is completed.**

- A2DP profile-compatible Bluetooth speakers can be connected following the same steps used to connect Bluetooth headphones.

NOTE

- The volume of Bluetooth headphones cannot be adjusted through the VOLUME +− buttons on the main unit or the remote control unit. Adjust the volume through the Bluetooth headphones.
- If you are using Bluetooth headphones that do not have volume control, or if the volume is insufficient, you can control the volume by adjusting the “Bluetooth Headphone” - “Level” from the options menu. (☞ p. 51)
- Any sound modes and other audio settings are not reflected in audio output on Bluetooth headphones.
- If you are using Bluetooth headphones and “Output Mode” is set to “Headphones”, the following settings are not available:
  - “Audio” and “Speakers” setting in the setup menu
  - “DBB/Tone”, “Balance”, “Sound Mode”, “Dirac Live Filter” setting in the option menu
- Audio may be delayed when sent over Bluetooth.
- AirPlay audio cannot be transmitted.
- Bluetooth headphones cannot be connected when use a Bluetooth input source. Furthermore, selecting a Bluetooth input source will terminate the connection between this unit and Bluetooth headphones.

Adjusting the volume of Bluetooth headphones

If you are using Bluetooth headphones that do not have volume control, or if the volume is insufficient, you can control the volume by adjusting the “Bluetooth Headphone” - “Level” from the options menu.

1 **Press OPTION.**

An option menu screen is displayed.

2 **Use cursor Up/Down to select “Bluetooth Headphone”, then press ENTER.**

3 **Use cursor Up/Down to select “Level”, then press ENTER.**

4 **Use cursor Up/Down to adjust the volume.**

–50 dB – +10 dB (Default : 0 dB)

- This setting applies to all connected Bluetooth headphones, regardless of type.

Confirming the device name of the connected Bluetooth headphones

1 **Press OPTION.**

An option menu screen is displayed.

2 **Use cursor Up/Down to select “Bluetooth Headphone”, then press ENTER.**

3 **Use cursor Up/Down to see the device name of the Bluetooth headphones.**

Reconnecting to a Bluetooth headphones

Follow any of the steps below to reconnect the most recently used Bluetooth headphones:

- Reconnect to this unit with Bluetooth headphone's reconnect function.
- If “Output Mode” is set to “HP + Speakers”, this unit will automatically connect to the most recently used Bluetooth headphones when power is turned on.
- Select the device you wish to connect from the “Devices” under “Bluetooth” in the setup menu. (☞ p. 110)

Disconnecting Bluetooth headphones

Complete any of the following steps to disconnect your Bluetooth headphones:

- Turn off your Bluetooth headphones.
- In the setup menu, go to “Network” - “Bluetooth”, and set “Headphone” to “Off”. (☞ p. 110)

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”.

Download on the App Store

GET IT ON Google Play

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

Setting up the HEOS app for the first time with a HEOS Built-in device

Once you have placed this unit in your listening room and have downloaded the HEOS app, you are ready to configure this unit for music playback. This involves following a few simple steps to get this unit connected to your existing home network:

- DO NOT connect the Ethernet cable if you are connecting this unit to a wireless network. If you are connecting this unit to a wired network, use an Ethernet cable (not included) to connect this unit to your network or router.

1 Make sure your mobile device is connected to your wireless network (the network you want to connect to this device).

You can check this in the “Settings” - “Wi-Fi” menu of your iOS or Android device.

- Activate the Bluetooth setting on your mobile device.
- If your wireless network is secure, make sure you know the password to join your network.

2 Launch the HEOS app on your mobile device.

3 Tap the “Setup Now” button at the top of the screen.

4 Follow the instructions to add this unit to your wireless network and to select an input on this unit.

Adding the registration of HEOS Built-in devices in the HEOS app

The HEOS system is a true multiroom audio system that automatically synchronizes audio playback between multiple HEOS Built-in 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 Built-in devices to your HEOS system.

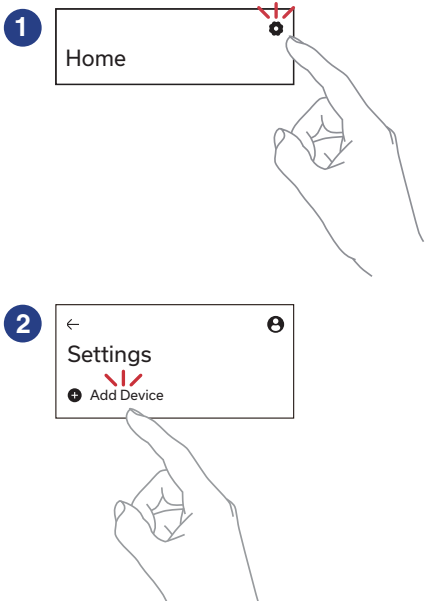
■ Adding wired HEOS Built-in devices

Just connect the HEOS Built-in devices to your home network using an Ethernet cable and the HEOS Built-in device will appear on your HEOS app as a new room in the Rooms screen. For information about wired LAN connections, refer to “Connecting to a home network (LAN)” (☞ p. 30).

At your convenience, you can assign a name to the HEOS Built-in device to indicate which room you have it placed in.

■ Adding wireless HEOS Built-in devices

You can add additional wireless HEOS Built-in devices to your HEOS system by selecting “Add Device” from the HEOS app’s settings menu and follow the instructions:



HEOS Account

HEOS Accounts can be registered by tapping “Home” tab - “Settings” icon ⚙ in the HEOS app.

Once you create or sign into your HEOS Account, you can use the HEOS Favorites feature to save and recall your favorite streaming radio stations using this unit.

■ 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 “Home” menu of the HEOS app. Follow the instructions in the HEOS app to complete the operation.

- This unit’s HEOS Account setting information is synced with the HEOS app. Change settings and sign out of your account through the HEOS app.

■ Changing your HEOS Account

1 **Tap the “Home” tab.**

2 **Select the Settings icon ⚙ in the upper right corner of the screen.**

3 **Select the HEOS Account icon in the upper right corner of the screen.**

4 **Change your location, change your password, delete your account or sign out of your account.**

- This unit automatically syncs when you change your account settings or sign out through the HEOS app. To switch HEOS accounts, play back music from an HEOS app signed in to the account you wish to sync to this unit. The “HEOS Account” switches automatically.

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.

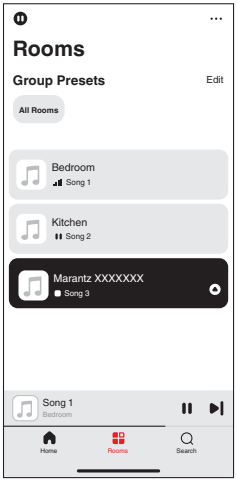
NOTE

- 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 XXXXXXX” if there are multiple products with HEOS Built-in.

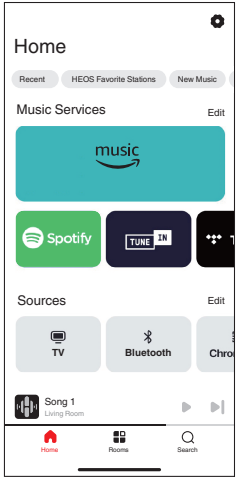
- Tap the 3 dots menu icon ··· at the top right to switch edit mode. You can change the displayed name.



Selecting the music track or station from music sources

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

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

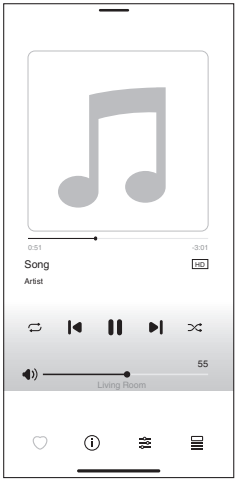


2 Browse the music to play.

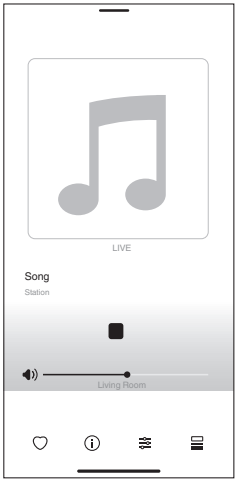
After selecting a music track or radio station the app will automatically change to the “Now Playing” screen.

- Set “Network Control” of the setup menu to “On” so that when you are playing back from the HEOS app while this device is in standby, this device turns on automatically. (“Network Control” (☞ p. 111))

Audio file



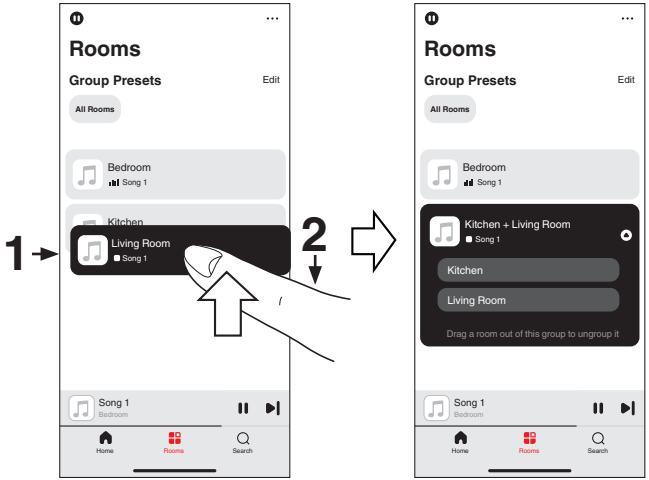
Streaming



Listening to the same music in multiple rooms

This system is a true multi-room audio system. You can create one or more HEOS groups to automatically synchronize audio playback between multiple products with HEOS Built-in so that the music playing different rooms is perfectly in sync and always sounds amazing! You can easily add up to 32 products to your system in total. You can group up to 16 individual products to have them play the same song fully synchronized.

■ 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.**

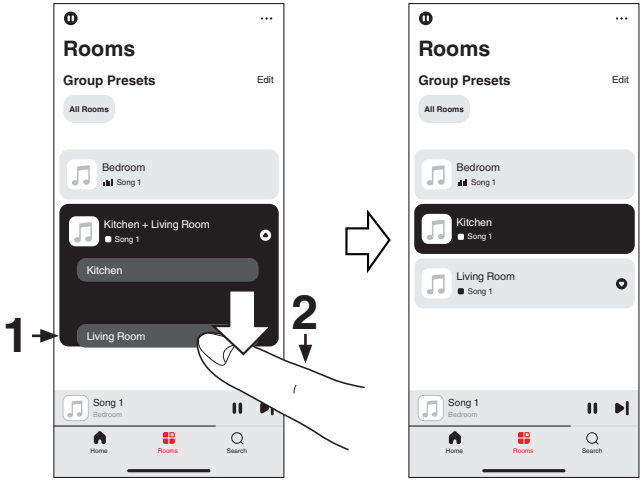
The two rooms will be grouped together into a single device group and both rooms will be playing the same music in perfect sync.

- You can also use the “Edit” function of the “Group Presets” to manage the group.

■ 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.

- You can also use the “Edit” function of the “Group Presets” to manage the group.

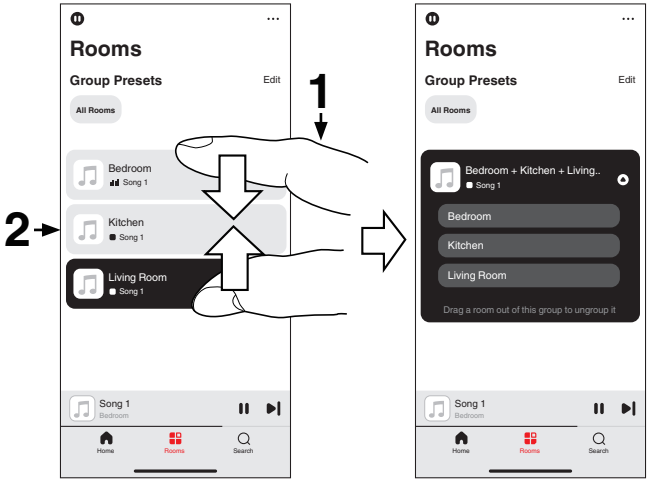
Grouping all rooms

You can easily group all rooms (up to 16 rooms) together 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.**

All of your rooms will be joined together and begin playing the same music in perfect sync.



- You can also use the “Edit” function of the “Group Presets” to manage the group.

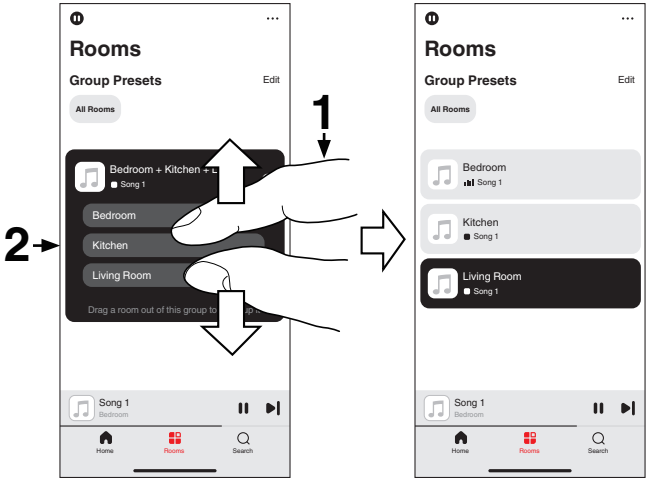
Ungrouping all rooms

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.

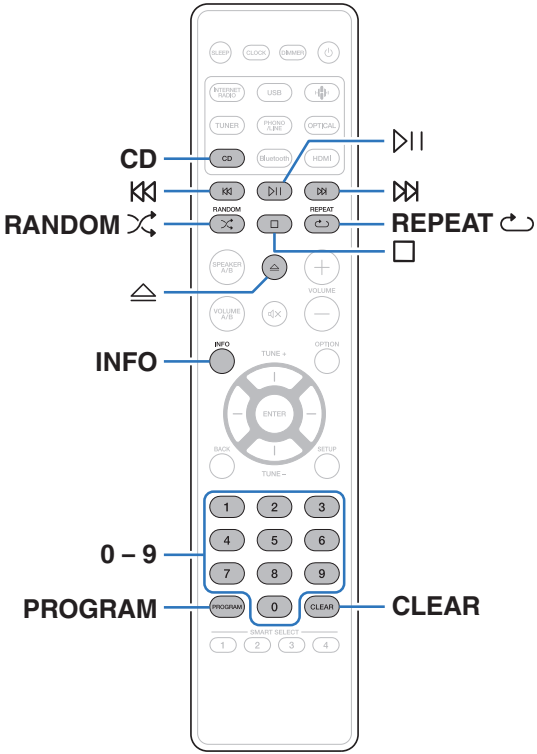
2 Quickly spread your two fingers apart from each other and release.

All of your rooms will be ungrouped.



- You can also use the “Edit” function of the “Group Presets” to manage the group.

Playing CDs



Playing CDs

1 **Press CD to switch the input source to “CD”.**

2 **Insert a disc.** (☞ p. 145)

Playback starts.

- Press ⏏ to open/close the disc tray.

- You can also open/close the disc tray by pressing ⏏ on the main unit.
- You can set whether to automatically play CDs. (☞ p. 107)

NOTE

- Do not place any foreign objects in the disc tray. Doing so could damage the set.
- Do not push the disc tray in by hand when the power is turned off. Doing so could damage the set.

Operation buttons	Function
▷II	Playback / Pause
□	Stop
⏮ ⏭	Skip to previous track / Skip to next track
	(Press and hold) Fast-reverse / Fast-forward
0 - 9	Select the track
RANDOM ⤮	Random playback
REPEAT ⟲	Repeat playback • Switching between All-track repeat and Single-track repeat.
INFO	Time display switching • Switching between elapsed time of the current track, remaining time of the current track and remaining time of all tracks.

■ Playing a specific track (Direct searching)

1 Use 0 – 9 to select the tracks.

【Example】
Track 4 : Press number 4 to select track 4.
Track 12 :Press numbers 1 and 2 consecutively to select track 12.

- The number you enter is set about 1.5 seconds after you press the number buttons. To enter a two-digit number, be sure to press the two number buttons, one immediately after the other.

Playing tracks in a specific order (Program playback)

Up to 25 tracks can be programmed.

1 In the stop mode, press PROGRAM.

"Program" is displayed on the display.

2 Use 0 – 9 to select the tracks.

【Example】

Track 4 : Press number 4 to select track 4.

Track 12 : Press numbers 1 and 2 consecutively to select track 12.

- The number you enter is set about 1.5 seconds after you press the number buttons. To enter a two-digit number, be sure to press the two number buttons, one immediately after the other.

3 Press ⏯.

Playback starts in the programmed order.

- Press RANDOM⤮ while program playback to enter random playback mode. When ⏯ is pressed during random playback mode, the programmed tracks are played in random order.
- When REPEAT ⟲ is pressed during program playback, the tracks are played repeatedly in the programmed order.

NOTE

- The program is cleared when the disc tray is opened or the power is turned off.

Checking the order of the programmed tracks

In the stop mode, press ⏭.

The tracks are shown in the programmed order in the display each time ⏭ is pressed.

Clears the programmed tracks

In the stop mode, press CLEAR.

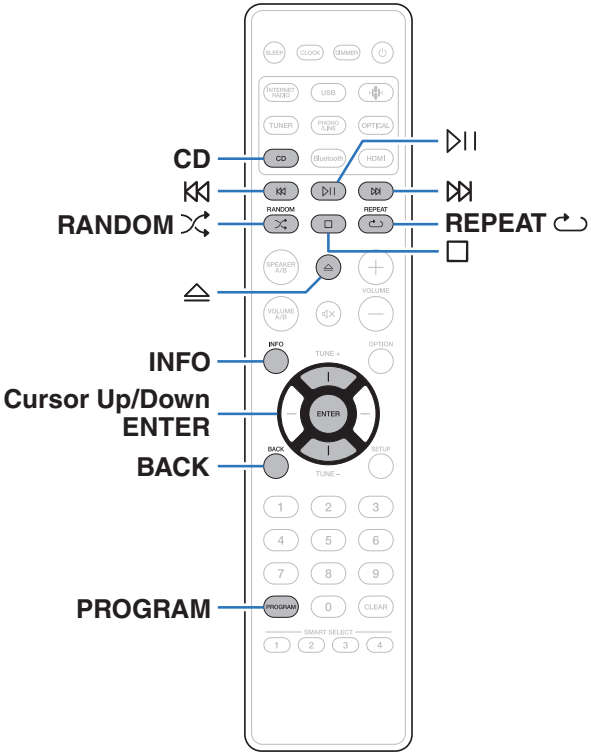
The last track programmed is cleared each time the button is pressed.

- You can also select a track to be cleared by pressing ⏭.

Clearing the all programmed track

In the stop mode, press PROGRAM.

Playing DATA CDs



- This section explains how to playback music files that are recorded onto a CD-R or CD-RW.
- There are many music distribution sites on the Internet allowing you to download music files in MP3 or WMA (Windows Media® Audio) format. The music (files) downloaded from such sites can be stored on CD-R or CD-RW discs and played on this unit.
- The audio format types and specifications supported by this unit for playback are as follows.
  See "Specifications of supported files" (☞ p. 141) for details.
  - **MP3**
  - **WMA**

NOTE

- Copyright-protected files cannot be played.
- Note that depending on the software used for burning and other conditions, some files may not play or display correctly.

"Windows Media" and "Windows" are the trademarks or registered trademarks of Microsoft Corporation in the United States and other countries.

Playing files

1 **Press CD to switch the input source to “CD”.**

2 **Load a CD-R or CD-RW containing music files into the disc tray.** (☞ p. 145)

Playback starts.

- Press ⏏ to open/close the disc tray.

- You can also open/close the disc tray by pressing ⏏ on the main unit.
- You can set whether to automatically play CDs. (☞ p. 107)

Operation buttons	Function
⏯	Playback / Pause
◻	Stop
⏮ ⏭	Skip to previous track / Skip to next track
	(Press and hold) Fast-reverse / Fast-forward
BACK	Moving up a level in the hierarchy
Cursor Up/Down	Select the item
ENTER	Enter the selected item / Playback
RANDOM ⤮	Random playback
REPEAT ⟲	Repeat playback • Switching between All-track repeat and Single-track repeat.
PROGRAM	Select the playback range
INFO	Switches the display between Title name / Artist name and Album name.

- To start playing another file during playback of a CD-R/CD-RW, first press BACK to display the file tree. Next, use Cursor Up/Down buttons to select the file to be played and press ENTER.

Switching the display

During playback, press INFO.

- Switches the display between Title name / Artist name and Album name.
- If a file does not support text information or no track information is recorded, the file name is displayed.
- Any characters that cannot be displayed are replaced with "." (period).

Files that can be played back

- See "Specifications of supported files" (☞ p. 141).

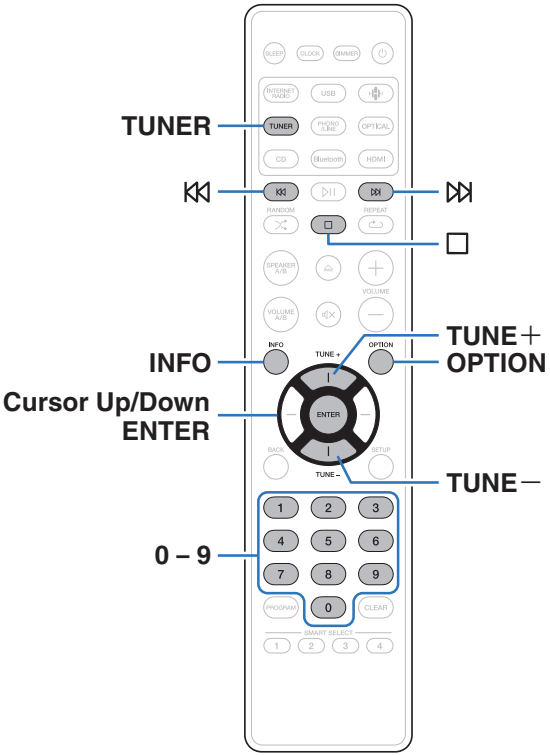
Switching the playback range

Press PROGRAM.

- The playback range of a track can be set.

Folder playback mode:	All the files in the selected folder are played. 🗀 is displayed on the display at this time.
All playback mode:	All the files in the disc are played.

Listening to DAB/FM broadcasts



For details about how to connect the antenna, see “Connecting a DAB/FM antenna” (☞ p. 29).

❑ About DAB+

- The main difference between DAB and DAB+ is the type of audio codec used.
  DAB: MPEG2
  DAB+: MPEG4 (AAC)
- This unit can receive both DAB and DAB+ broadcasts.

Listening to DAB/FM broadcasts

1 **Press TUNER to select the reception band.**

DAB:	When listening to a DAB broadcast.
FM:	When listening to an FM broadcast.

- Automatically scans for DAB stations when DAB is selected for the first time after purchase.

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

When a station is received, the indicator lights.
The ST indicator lights up when a stereo broadcast is received.

Changing the FM tuning mode (Tune Mode)

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

1 Press OPTION during FM reception.

An option menu is displayed.

2 Use Cursor Up/Down buttons to select “Tune Mode” then press ENTER.

3 Use Cursor Up/Down buttons to select the desired mode, then press ENTER.

Auto (AUTO)**:**	Automatically search for and tune to a receivable radio station.
Manual (No indication)**:**	Manually change the frequency one step at a time each time the button is pressed.

Presetting DAB/FM stations

Up to 50 stations can be registered in the preset list.

1 Press OPTION during reception of the station to be registered.

An option menu is displayed.

2 Use Cursor Up/Down buttons to select “Preset Memory”, then press ENTER.

3 Use Cursor Up/Down buttons, select the number to register the station to in the preset list and press ENTER.

“Added” is displayed and the registration is completed.

Automatically presetting FM stations (Auto Preset)

You can automatically register all FM stations that can be received to the preset list. Up to 50 stations can be registered.

1 Press OPTION during FM reception.

An option menu is displayed.

2 Use Cursor Up/Down buttons to select “Auto Preset Memory”, then press ENTER.

3 Use Cursor Up/Down buttons to select “Start”, then press ENTER.

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

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

- To stop auto tuning, press □.
- Broadcast stations whose antenna signals are weak cannot be preset automatically. If you wish to preset such stations, tune them in manually.
- Additional stations cannot be registered to the preset list after 50 stations are registered.
- DAB stations cannot be automatically preset.

Listening to stations registered in the preset list

1 Press OPTION during reception of a station.

An option menu is displayed.

2 Use Cursor Up/Down buttons to select “Preset List”, then press ENTER.

3 Use Cursor Up/Down buttons and select the radio station that you want to listen to, then press ENTER.

4 Use Cursor Up/Down buttons to select “Play Now”, then press ENTER.

- You can select the station you want to listen to from the preset list by pressing 0 – 9.
- You can switch between preset stations by pressing ⏮⏭.

Deleting a station from the preset list

1 **Press OPTION during reception of a station.**
An option menu is displayed.

2 **Use Cursor Up/Down buttons to select “Preset List”, then press ENTER.**

3 **Use Cursor Up/Down buttons to select the station you want to delete, then press ENTER.**

4 **Use Cursor Up/Down buttons to select “Remove from Preset List”, then press ENTER.**
“Removed” is displayed and the deletion is completed.

Auto scanning DAB broadcast stations

1 **Press OPTION during DAB reception.**
An option menu is displayed.

2 **Use Cursor Up/Down buttons to select “Auto-Scan”, then press ENTER.**

3 **Use Cursor Up/Down buttons to select “Start”, then press ENTER.**
Begins scanning for DAB stations.

Switching the reception information for the currently tuned in DAB station

1 **Press INFO during DAB reception.**

Dynamic Label Segment:	Text data included in the broadcast is scrolled.
Station Name:	The service station name is displayed.
Program Type:	The category of the tuned in station is displayed.
Ensemble Name:	The ensemble name is displayed.
Frequency:	The frequency is displayed.
Signal Quality:	The reception signal intensity is displayed (0 to 100). • If the reception signal intensity is 80 or greater, the program can be received without noise.
Audio Information:	The mode of the currently tuned in station and its bit rate are displayed.

RDS search

RDS is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

Use this function to automatically tune to FM stations that provide the RDS service.

Note that the RDS function only works when receiving RDS compatible stations.

1 **Press OPTION during FM reception.**

An option menu is displayed.

2 **Use Cursor Up/Down buttons to select “RDS Search”, then press ENTER.**

The search for RDS stations begins automatically.

The RDS indicator lights up when a RDS broadcast is received.

- The display switches between Program service name, Frequency, Program Type, and Radio Text each time the INFO is pressed.
- The operations described below selecting “RDS Search” will not function in areas in which there are no RDS broadcasts.

PTY search

Use this function to find RDS stations broadcasting your desired program type (PTY).
PTY identifies the type of RDS program.
The program types and their displays are as follows:

NEWS	News	**WEATHER**	Weather
AFFAIRS	Current Affairs	**FINANCE**	Finance
INFO	Information	**CHILDREN**	Children's program
SPORT	Sports	**SOCIAL**	Social Affairs
EDUCATE	Education	**RELIGION**	Religion
DRAMA	Drama	**PHONE IN**	Phone In
CULTURE	Culture	**TRAVEL**	Travel
SCIENCE	Science	**LEISURE**	Leisure
VARIED	Varied	**JAZZ**	Jazz Music
POP M	Pop Music	**COUNTRY**	Country Music
ROCK M	Rock Music	**NATION M**	National Music
EASY M	Easy Listening Music	**OLDIES**	Oldies Music
LIGHT M	Light Classical	**FOLK M**	Folk Music
CLASSICS	Serious Classical	**DOCUMENT**	Documentary
OTHER M	Other Music		

1 **Press OPTION during FM reception.**

An option menu is displayed.

2 **Use Cursor Up/Down buttons to select "PTY Search", then press ENTER.**

3 **Use Cursor Up/Down buttons to call out the desired program type, then press ENTER.**

Automatically begin the PTY search operation.

TP search

TP identifies programs that carry traffic announcements.
This allows you to easily find out the latest traffic conditions in your area before leaving home.
Use this function to find RDS stations broadcasting traffic programs (TP stations).

1 Press OPTION during FM reception.

An option menu is displayed.

2 Use Cursor Up/Down buttons to select “TP Search”, then press ENTER.

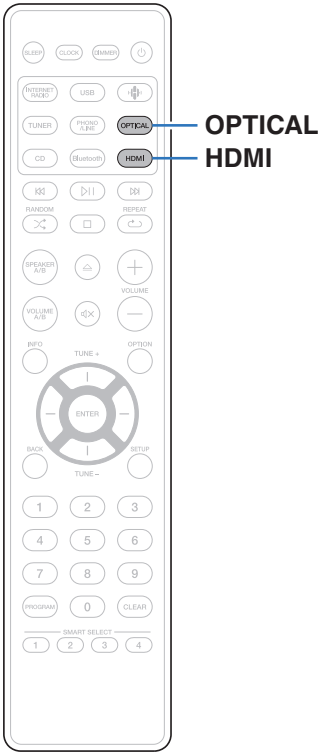
Automatically begin the TP search operation.
The TP indicator lights up when a TP station is received.

Radio Text

RT allows RDS stations to send text messages that appear on the display.

- When the RT mode is turned on while an RDS broadcast station not offering an RT service is tuned in, “NO TEXT” is displayed on the display.

Playing digital input



1 **Prepare for playback.**

Check the connection, then turn on this units. (“Connecting a digital device” (☞ p. 26))

2 **Press HDMI or OPTICAL to switch the input source to “HDMI” or “Optical”.**

3 **Play the component connected to this unit.**

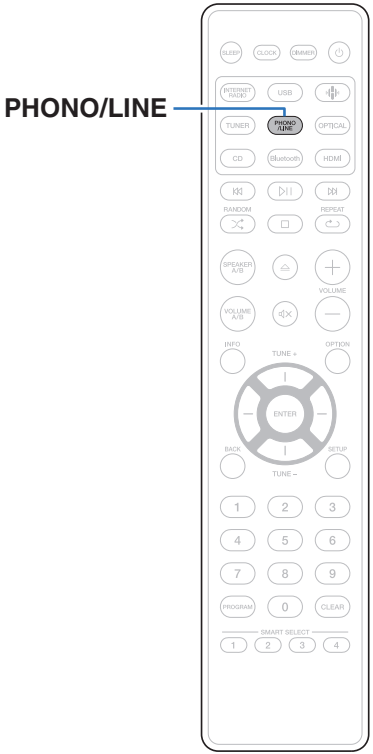
- If the sampling frequency cannot be detected, “Signal Unlock” will be displayed.
- “Unsupported” is displayed when audio signals that are not supported by this unit are input.

- When “TV Input” is set in the setup menu, this unit automatically turns on when the TV connected to the unit is turned on, and the input source switches to “HDMI” or “Optical”. (☞ p. 103)

■ Specifications of supported audio formats

See “Digital input” (☞ p. 147).

Playing analog input



1 **Prepare for playback.**

Check the connection, then turn on this units. (“Connecting an analog device” (☞ p. 27))

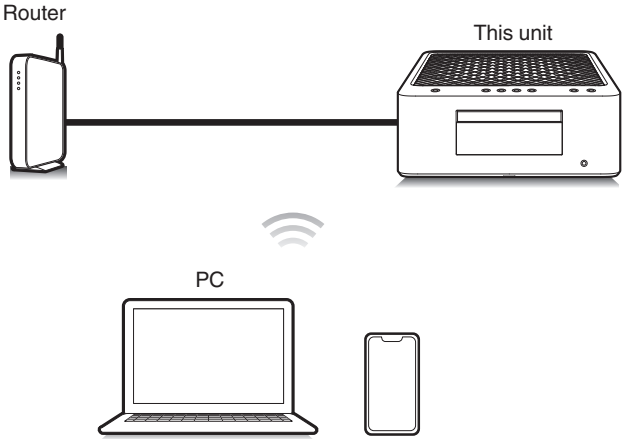
2 **Press PHONO/LINE to switch the input source to “Phono” or “Line”.**

- The input source is switched to “Phono” or “Line” each time PHONO/LINE is pressed.

3 **Play the component connected to this unit.**

AirPlay function

Music files stored on your iPhone, iPod touch, iPad, Mac or Windows PC 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.
- The screen may differ depending on the OS and software versions.

Playing songs from your iPhone, iPod touch, iPad or Mac

You can stream music stored in your “iPhone/iPod touch/iPad/Mac” directly to this unit.

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

- For details, see your device’s manual.

2 Open Apple Music and play music from your iPhone, iPod touch or iPad.

3 Tap or click the AirPlay icon and select this unit.

[Example] iOS 15 or macOS 13

[Example] iOS 10

- You can also use AirPlay to stream music from other applications. Open the Control Center, tap or click the AirPlay icon, then select this unit.
- To use AirPlay, your iOS device must support iOS 10.0.2 or later, or OS X Mountain Lion 10.8 or later.

Playing songs from Windows PC

1 Install iTunes 10, or later, on a 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

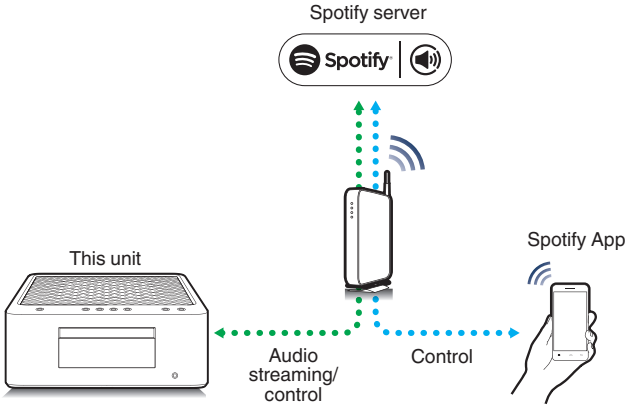
3 Choose a song and click play in iTunes.

The music will stream to this unit.

- When “Network Control” is set to “On”, you can turn on this unit by operating iTunes. (☞ p. 111)
- For information about how to use iTunes, also see the Help for iTunes.

Spotify Connect function

Spotify is all the music you'll ever need. Millions of songs available instantly. Just search for the music you love, or let Spotify play you something great. Spotify works on your phone, tablet, computer and home speakers. So you'll always have the perfect soundtrack for whatever you're doing. Now you can enjoy Spotify with your free account as well as Premium account.
Use your phone, tablet or computer as a remote control for Spotify.
Go to **www.spotify.com/connect** to learn how.
The Spotify software is subject to third party licenses found here:
www.spotify.com/connect/third-party-licenses

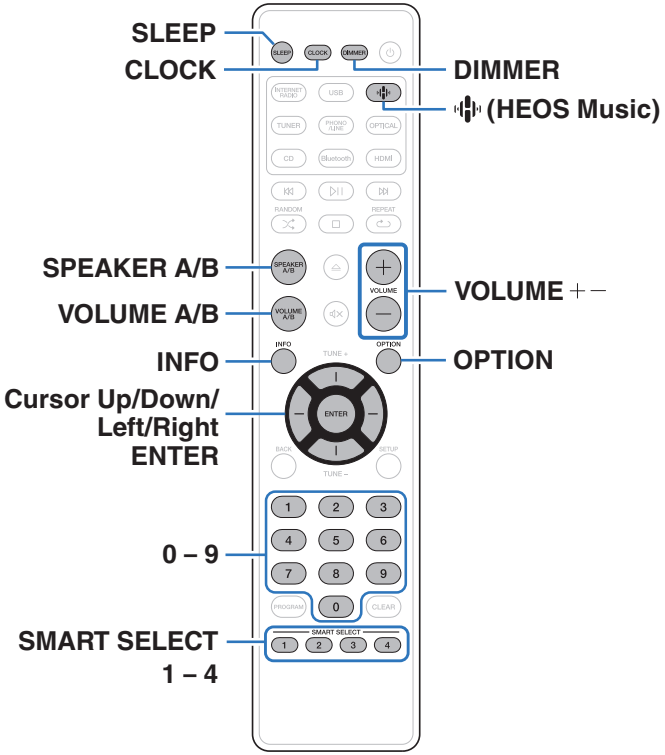


Playing Spotify music with this unit

Download the "Spotify App" onto your iOS or Android device beforehand.

1. **Connect the Wi-Fi settings of the iOS or Android device in the same network as this unit.**
2. **Launch the Spotify App.**
3. **Play back the Spotify track.**
4. **Tap the Spotify icon to select the 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. 53).

Playing back HEOS Favorites

When using the HEOS Favorites function for the first time on this unit, create a HEOS Account on the HEOS app or sign in to your account. Once you create or sign into your HEOS Account, you can use the HEOS Favorites feature to save and recall your favorite streaming radio stations using this unit.

1 Press (HEOS Music).

If a playback history is present, the last Internet radio station or song played is played back. Pressing (HEOS Music) again displays the HEOS Music top menu.

2 Use Cursor Up/Down buttons to select "Favorites", then press ENTER.

3 Use Cursor Up/Down buttons to select the content you would like to playback, then press ENTER.

4 Use Cursor Up/Down buttons to select "Play Now", then press ENTER.

- You can select content you would like to playback from your HEOS Favorites by pressing 0-9.
- You can no longer select Favorites from the HEOS Music top menu when this unit is not synced with a HEOS Account in the HEOS app.

Adding to HEOS Favorites

This function only works for streamed content.

1 While content is playing, press OPTION.

The option menu screen is displayed.

2 Use Cursor Up/Down buttons to select "Add to HEOS Favorites", then press ENTER.

3 Use Cursor Up/Down buttons to select the "HEOS Favorites" number you would like to save your contents to, then press ENTER.

Deleting a HEOS Favorites

1 Press (HEOS Music).

If a playback history is present, the last Internet radio station or song played is played back. Pressing (HEOS Music) again displays the HEOS Music top menu.

2 Use Cursor Up/Down buttons to select “Favorites”, then press ENTER.

3 While the HEOS Favorites content list is displayed, use Cursor Up/Down buttons to select the item you want to remove from HEOS Favorites, then press ENTER.

4 Use Cursor Up/Down buttons to select “Remove from HEOS Favorites”, then press ENTER.

Adjusting the tone and balance

■ Adjusting the tone

1 Press OPTION.

The option menu screen is displayed.

2 Use Cursor Up/Down buttons to select “DBB/Tone”, then press ENTER.

The “DBB/Tone” screen is displayed.

3 Use Cursor Up/Down buttons to select “Dynamic Bass Boost”, “Bass” or “Treble”, then press ENTER.

4 Use Cursor Up/Down buttons to set the selected item, then press ENTER.

- The tone adjustment function cannot be set when the “Sound Mode” is set to “Direct”. (☞ p. 85)

❑ Dynamic Bass Boost

On:	Emphasizes the bass sound (maximum +8 dB).
Off (Default)**:**	The DBB (Dynamic Bass Boost) function is not used.

❑ Bass

Adjusts the bass sound.

–10 dB – +10 dB (Default : 0 dB)

❑ Treble

Adjusts the treble sound.

–10 dB – +10 dB (Default : 0 dB)

■ Adjusting the balance

1 Press OPTION.

The option menu screen is displayed.

2 Use Cursor Up/Down buttons to select “Balance”, then press ENTER.

The “Balance” screen is displayed.

3 Use Cursor Left/Right buttons to adjust the volume balance, then press ENTER.

- The balance adjustment function cannot be set when the “Sound Mode” is set to “Direct”. (☞ p. 85)

Selecting a sound mode

1 Press OPTION.

The option menu screen is displayed.

2 Use Cursor Up/Down buttons to select “Sound Mode”, then press ENTER.

The “Sound Mode” screen is displayed.

3 Use Cursor Up/Down buttons to select a sound mode, then press ENTER.

Direct:	This mode plays back audio as recorded in the source.
Stereo (Default)**:**	This mode plays 2-channel stereo audio with no additional surround sound processing.
Virtual:	With surround sound processing, this mode plays the immersive surround sound even with 2-channel speakers.

Selecting a Dirac Live Filter (Dirac Live)

Set a Dirac Live filter transferred from Dirac Live software.
This can be set after running Dirac Live Room Correction.
See the Dirac Live Manual for details.
https://manuals.marantz.com/DiracLiveRC_Sys1/ALL/EN/

Switching the display’s brightness

The display brightness can be adjusted between five levels.

1 Press DIMMER.

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

- If the buttons are operated when the display is turned off, information is displayed temporarily at a low brightness level.
- The display brightness is set to most brightly by default.
- When the “Status Light” in the settings menu is set to “Sync”, the brightness of the Status LED will also be switched according to the brightness of the display. (☞ p. 107)

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.

Checking the current time

Be sure to set the current time using "Clock" in the setup menu in advance. (☞ p. 106)

Checking the current time when the power is on

Press CLOCK.

- Press once more and the display returns to its original condition.

Checking the current time when the power is set to standby

Press CLOCK.

- The current time is displayed for 30 seconds.

- The time cannot be set when in the standby mode. Turn on the power first.
- Pressing the INFO button while the clock is displayed in standby mode temporarily displays the alarm settings. If there are no previously set alarms, no alarms are displayed.

Smart select function

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

You can simply press one of the registered SMART SELECT buttons in subsequent playbacks to switch to the group of saved settings in a batch.

By saving frequently used settings at the SMART SELECT 1 - 4 buttons, you will always be able to easily call up the same playback environment.

■ Calling up the settings

1 Press SMART SELECT.

The smart select settings registered to the button you pressed are called up.

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

Button	Input source
SMART SELECT 1	Internet Radio
SMART SELECT 2	Tuner
SMART SELECT 3	Bluetooth
SMART SELECT 4	HDMI

- In the factory settings, items other than the input sources are not registered in smart select.
  See “Changing the settings” to register smart select. (☞ p. 87)

■ Changing the settings

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

① Input source (☞ p. 36)
② Volume (☞ p. 36)
③ Dynamic Bass Boost (DBB) (☞ p. 83)
④ Tone (Bass/Treble) (☞ p. 83)
⑤ Sound Mode (☞ p. 85)
⑥ Subwoofer (On/Off and Level) (☞ p. 102)
⑦ Dirac Live Filter (☞ p. 85)

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

2 Press and hold the desired SMART SELECT for more than 3 seconds.

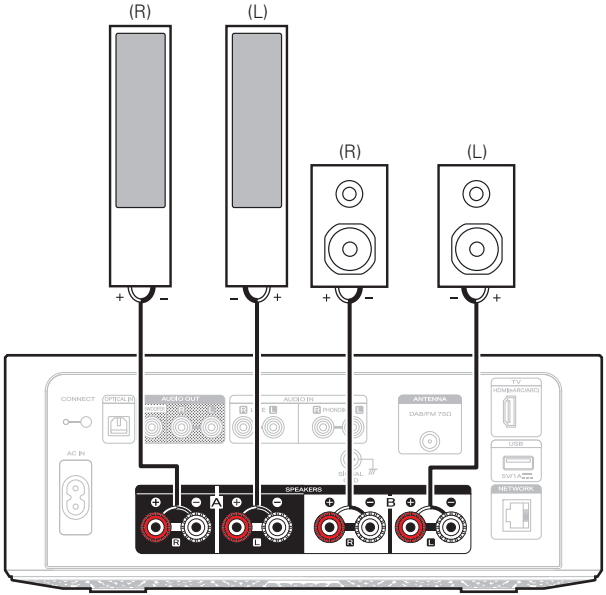
“Saved” appears on the display and the current settings will be memorized.

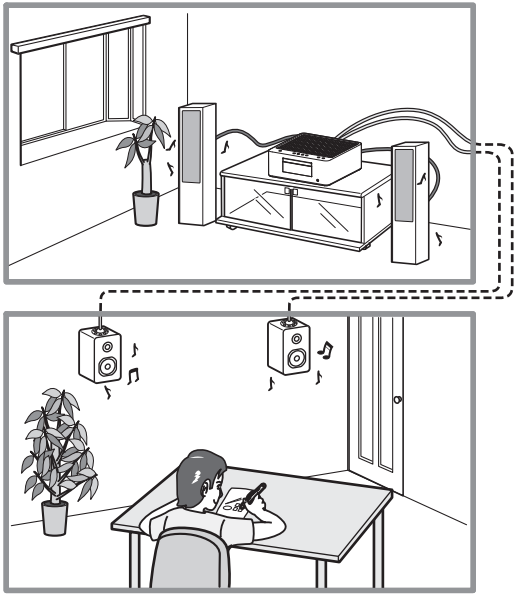
Connecting multi-drive to listen to music in two rooms

You can listen to music in different rooms using this unit with two pairs of speaker systems.

■ Connecting the speaker cables

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





■ Selecting speakers to output audio

You can set up this unit to output audio from Speaker A, Speaker B, or both.

1 Press SPEAKER A/B.

The current setting is displayed.

2 Press SPEAKER A/B repeatedly to select the setting.

- The setting changes each time SPEAKER A/B is pressed.

Speaker A = On : Outputs audio from Speaker A only.
Speaker B = On : Outputs audio from Speaker B only.
Both Speakers A and B = On : Outputs audio from both Speaker A and Speaker B.

- When using the multi-drive connection, set “Speakers” – “Amplifier Mode” in the settings menu to “Standard (A, B, or A+B)”. (☞ p. 101)

■ Specifying speakers to adjust the volume

When 2 sets of speakers (Speaker A/Speaker B) are connected, either Speaker A or Speaker B can be selected for volume adjustment.

1 Press VOLUME A/B.

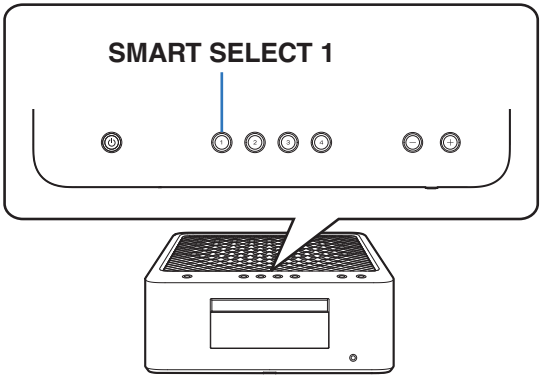
The speakers whose volume is to be adjusted are shown in the unit display.

2 Use VOLUME +— to adjust the volume.

- This is only enabled when “Both Speakers A and B = On” is set for the audio output speakers.

Front/Top panel lock function

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



■ Disabling all key button operations

1. **Unplug the power cord from the power outlet.**
2. **Plug in the power cord while holding down SMART SELECT 1.**
3. **When “Panel/Remote Lock” menu appears on the display, release the button.**
4. **Use Cursor Up/Down buttons to select “Panel Lock”, then press ENTER.**
5. **Use Cursor Up/Down buttons to select “Panel/Volume”, then press ENTER.**
6. **Use Cursor Up/Down buttons to select “Exit”, then press ENTER.**
   All button operations except ⏻ are disabled.

■ Disabling all button operations except VOLUME +−

1 **Unplug the power cord from the power outlet.**

2 **Plug in the power cord while holding down SMART SELECT 1.**

3 **When “Panel/Remote Lock” menu appears on the display, release the button.**

4 **Use Cursor Up/Down buttons to select “Panel Lock”, then press ENTER.**

5 **Use Cursor Up/Down buttons to select “Panel”, then press ENTER.**

6 **Use Cursor Up/Down buttons to select “Exit”, then press ENTER.**

All button operations except ⏻ and VOLUME +− are disabled.

■ Canceling the Front/Top panel lock function

1 **Unplug the power cord from the power outlet.**

2 **Plug in the power cord while holding down SMART SELECT 1.**

3 **When “Panel/Remote Lock” menu appears on the display, release the button.**

4 **Use Cursor Up/Down buttons to select “Panel Lock”, then press ENTER.**

5 **Use Cursor Up/Down buttons to select “Off”, then press ENTER.**

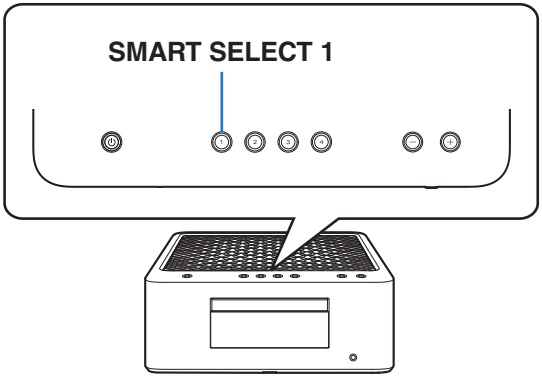
6 **Use Cursor Up/Down buttons to select “Exit”, then press ENTER.**

The Front/Top panel lock function is canceled.

- Even when the Front/Top panel lock function is set, you can operate the unit using the remote control unit.

Remote lock function

When the function is enabled, you can not perform operations with the remote control unit.
By default, this function is disabled.



■ Disabling the remote sensor function

1 **Unplug the power cord from the power outlet.**

2 **Plug in the power cord while holding down SMART SELECT 1.**

3 **When “Panel/Remote Lock” menu appears on the display, release the button.**

4 **Use Cursor Up/Down buttons to select “Remote Lock”, then press ENTER.**

5 **Use Cursor Up/Down buttons to select “On”, then press ENTER.**

6 **Use Cursor Up/Down buttons to select “Exit”, then press ENTER.**

The infrared light receiving function is disabled.

■ Enabling the remote sensor function

1 **Unplug the power cord from the power outlet.**

2 **Plug in the power cord while holding down SMART SELECT 1.**

3 **When “Panel/Remote Lock” menu appears on the display, release the button.**

4 **Use Cursor Up/Down buttons to select “Remote Lock”, then press ENTER.**

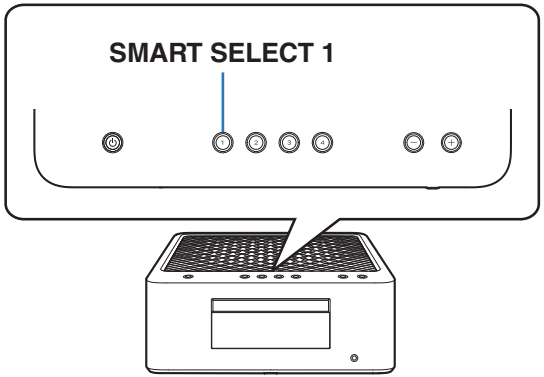
5 **Use Cursor Up/Down buttons to select “Off”, then press ENTER.**

6 **Use Cursor Up/Down buttons to select “Exit”, then press ENTER.**

The infrared light receiving function is enabled.

Tray lock function

To prevent the disc tray from opening, you can disable the disc tray open/close button (⏏) operation.



■ Disabling the disc tray open/close button (⏏) operations

1 **Unplug the power cord from the power outlet.**

2 **Plug in the power cord while holding down SMART SELECT 1.**

3 **When “Panel/Remote Lock” menu appears on the display, release the button.**

4 **Use Cursor Up/Down buttons to select “Tray Lock”, then press ENTER.**

5 **Use Cursor Up/Down buttons to select “On”, then press ENTER.**

6 **Use Cursor Up/Down buttons to select “Exit”, then press ENTER.**

The disc tray open/close button (⏏) operation is disabled.

■ Canceling the tray lock function

1 **Unplug the power cord from the power outlet.**

2 **Plug in the power cord while holding down SMART SELECT 1.**

3 **When “Panel/Remote Lock” menu appears on the display, release the button.**

4 **Use Cursor Up/Down buttons to select “Tray Lock”, then press ENTER.**

5 **Use Cursor Up/Down buttons to select “Off”, then press ENTER.**

6 **Use Cursor Up/Down buttons to select “Exit”, then press ENTER.**

The tray lock function is canceled.

Menu map

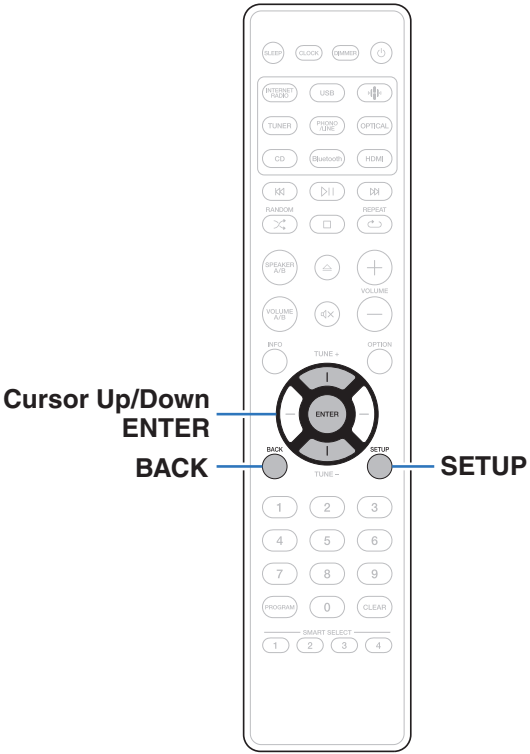
For menu operations, see the following page.
By default, this unit has recommended settings defined. You can customize this unit based on your existing system and your preferences.

Setting items	Detailed items	Description	Page
Audio	**Volume Limit**	Make a setting for maximum volume. The volume cannot be increased above this setting.	99
	Dirac Live Filter	Select a Dirac Live Filter.	99
	HP Amplifier Gain	Set the gain of the headphone amplifier. By setting according to the impedance of your headphones, you can enjoy playing headphones at an appropriate volume.	99
	Audio Out	You can set the analog audio output volume to “Fixed” or “Variable”.	100
Speakers	**Amplifier Mode**	Adjusts the speaker output according to the speaker connection method.	101
	Response	Toggles the frequency characteristics of the speaker output.	101
	Subwoofer	Enables or disables the subwoofer output, sets the subwoofer volume and crossover frequency.	102
	Dirac Live Setup	The unit will show on the display that the operating instructions for Dirac Live Room Calibration can be confirmed in the HEOS app.	102
TV	**TV Input**	Set this when playing audio from a TV on this unit.	103
	HDMI Power Off Control	Set the “HDMI Power Off Control” function that is keyed to the power off operation of your TV to turn the device’s power to standby.	104

Setting items	Detailed items	Description/Detailed items	Page
General	**Alarm**	Sets the timer playback.	105
	Clock	Sets the current time.	106
	Clock Mode	You can display the time when in standby by setting the clock mode.	107
	CD Auto Play	Set whether to automatically play a disc when the disc is inserted.	107
	Status Light	Adjusts the brightness of the status LED.	107
	Language	Sets the language for display the menu.	107
	Auto-Standby	Sets the unit power to standby when the unit is not in use.	108
	Firmware	Displays the current firmware version.	108
	Reset	Various settings are reset to the factory default values.	108
Network	**Network Information**	Displays various information about the network.	109
	Wi-Fi	The Wi-Fi function can be stopped to prevent noise that affects the sound quality.	109
	Bluetooth	Stopping Bluetooth function reduces a source of noise that affects sound quality, enabling higher sound quality playback. It also sets the Bluetooth transmitter settings.	110
	Network Control	Performs the on/off settings for the network function when in standby mode.	111
	AirPlay Setup	Set this unit to WAC mode. Perform this setup when connecting to a network using an iOS device.	111

Setting items	Detailed items	Description	Page
DAB*1	**Tuning Aid**	Displays the reception intensity for DAB antenna installation.	112
	Station Order	Sets the order of broadcasting stations to be displayed.	112
	DRC (Dynamic Range Control)	Sets dynamic range control.	112
	DAB Initialize	Resets the DAB modules.	112
	DAB Version	Displays DAB module version.	112

*1 This is displayed when the input source is set to “DAB”.



Menu operation

1 Press SETUP.

The setup menu is displayed on the display.

2 Use Cursor Up/Down buttons to select the setup menu to be set or operated, then press ENTER.

3 Use Cursor Up/Down buttons to change to desired setting.

4 Press ENTER to enter the setting.

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

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)
20 - 95	

Dirac Live Filter

Set a Dirac Live filter. This can be set after running Dirac Live Room Correction. See the Dirac Live Manual for details.
https://manuals.marantz.com/DiracLiveRC_Sys1/ALL/EN/

- A Dirac Live license needs to be purchased to use Dirac Live. (☞ p. 102)

HP Amplifier Gain

Set the gain of the headphone amplifier. Set this according to the impedance of the connected headphones. It is recommended that this is set on the “Low” side if the headphones have low impedance and on the “High” side if they have high impedance.

High:	Set the gain of the headphone amplifier to “High”. Set this if the volume is too low at the factory default setting.
Mid (Default)**:**	Set the gain of the headphone amplifier to “Mid”.
Low:	Set the gain of the headphone amplifier to “Low”. Set if the volume is too high when the gain setting is “Mid”.

NOTE

- The headphone volume varies depending on the HP Amplifier Gain setting. Decrease the volume or mute the audio first if changing this setting while listening to audio.

Audio Out

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

Fixed:	Fixes the analog audio output level.
Variable (Default)**:**	You can adjust the analog audio output level using the VOLUME +− buttons. The analog audio output volume is linked to the Speaker A volume.

- When “Variable” is set, analog audio output volume is linked to speaker A volume. Adjusting the volume of speaker B will not alter analog audio output volume. (☞ p. 89)
- When the speaker for audio output is set to “Speaker B = On”, this unit does not perform analog audio output. (☞ p. 89)

NOTE

- Note that the analog audio output level changes to the maximum when the analog audio output setting is changed from “Variable” to “Fixed”.
- Before changing the settings, turn the volume of the powered speakers connected to the AUDIO OUT connectors and headphones connected to the unit to the minimum volume.

Speakers

You can configure the optimal settings according to the speakers or subwoofer connected to this unit.

Amplifier Mode

This unit is loaded with 4 channels of output (SPEAKERS A (L/R), SPEAKERS B (L/R)), for a maximum of two sets of speakers that support a variety of playback methods. Connect and set up the speakers for your preferred playback method in advance.

Standard (A, B, or A+B) (Default)**:**	Set when either SPEAKERS A terminals or SPEAKERS B terminals are connected and when both SPEAKERS A and B terminals are connected as 2 sets of speakers in a multi-drive connection. ("Standard (A, B, or A+B) connection (BTL connection)" (☞ p. 21), "Connecting multi-drive to listen to music in two rooms" (☞ p. 88))
Parallel BTL:	Enables the Parallel BTL function, which achieves sound quality with power control by driving a single pair of speakers with all the built-in 4-channel amplifiers. Set when speakers are connected to the SPEAKERS A terminals. (☞ p. 22) • Do not connect a speaker to the SPEAKERS B terminal when "Parallel BTL" is set.
Bi-Amp:	Enables the bi-amp function. Set when bi-amp is connected. (☞ p. 23)

Response

Switches the frequency characteristics of the speaker output. Set as desired.

Flat (Default)**:**	Properties are flat.
Response1 :	Cuts low frequencies 40 Hz or under by –12 dB/oct.
Response2 :	Cuts low frequencies 60 Hz or under by –12 dB/oct.
Response3 :	Cuts low frequencies 80 Hz or under by –12 dB/oct.
Response4 :	Cuts low frequencies 100 Hz or under by –12 dB/oct.

- When the "Speakers" - "Amplifier Mode" setting is "Standard (A, B, or A+B)", SPEAKERS A/B terminals can be set individually.
- The "Response" setting is not reflected in headphones, audio or subwoofer output.
- The "Response" setting does not work when "Subwoofer" is set to "On". (☞ p. 102)

Subwoofer

Subwoofer

Set the presence of a subwoofer.

On:	Enable subwoofer output.
Off (Default)**:**	Disable subwoofer output.

- When you toggle the subwoofer on and off while Dirac Live Filter is selected, it disables Dirac Live Filter.

Level

Adjust the subwoofer volume.

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

Crossover

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

30 Hz – 250 Hz (Default : 80 Hz)

Dirac Live Setup

Dirac Live is a powerful solution that helps you get the best from your speakers. Dirac Live and its various features use research-driven acoustic processing algorithms to analyze your room and reduce its impact on sound quality, resulting in speaker performance that would be physically impossible otherwise.

You will need to create a Dirac Live account and purchase a license before running Dirac Live.
You can create an account and purchase a license on the website below.

www.dirac.com/marantz/

See the Dirac Live manual for details on Dirac Live.

https://manuals.marantz.com/DiracLiveRC_Sys1/ALL/EN/

TV

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 “HDMI” or “Optical” 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 (HDMI eARC/ARC or OPTICAL IN).

None / TV HDMI (eARC/ARC) / Optical In (Default: TV HDMI (eARC/ARC))

■ 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 (Default)**:**	Enables the Auto-Play function.
Off:	Disables the Auto-Play function.

- The Auto-Play function does not work when “Default Input” is set to “None”. Set “Default Input” in advance.
- The Auto-Play function will not work if the sampling frequency of the audio signal input from this unit’s OPTICAL IN input terminal is 88.2 kHz or more. TVs normally output 48 kHz audio signals and the Auto-Play function will work, but if you connect a device that outputs an audio signal of 88.2 kHz or more and try to use it, the Auto-Play function may not work.

HDMI Power Off Control

Set the “HDMI Power Off Control” function that is keyed to the power off operation of your HDMI connected TV to turn the device's power to standby.

All (Default) **:**	Regardless of the input source of this device, if the power of the TV is turned off, the power of this device automatically becomes standby.
TV HDMI (eARC/ARC):	If the input source is HDMI and you power off the TV, the power of this device automatically becomes standby.
Off:	This unit is not linked to the power of the TV.

General

Alarm

Audio from the set input source can be played back at a specified time. Use this to set playback for the same time every day, or set alarm playback on a certain day of the week.

■ Alarm 1

On:	Enables Alarm 1.
Off:	Disables Alarm 1.

■ Alarm 2

On:	Enables Alarm 2.
Off:	Disables Alarm 2.

■ Edit Alarm

Used to edit Alarm 1 or Alarm 2.

1 **Use Cursor Up/Down buttons to select “Alarm 1” or “Alarm 2”, then press ENTER.**

2 **Use Cursor Up/Down buttons to setting for the alarm start time, then press ENTER.**

3 **Use Cursor Up/Down buttons to change to desired setting, then press ENTER.**

Never:	Alarm is not repeated. (single time only)
Everyday:	Alarm is repeated every day.
Weekdays:	Alarm is repeated on weekdays (Mon. to Fri.) only.
Weekends:	Alarm is repeated on weekends (Sat., Sun.) only.
Custom:	Used to set alarm on/off settings individually for each day of the week. Alarm is repeated only for days set to on.

4 **Use Cursor Up/Down buttons to select the input source, then press ENTER.**

CD / Tuner / HDMI / Optical / Phono / Line

- When “Tuner” is selected, select a preset number.

5 **Use Cursor Up/Down buttons to select the volume level “00 – 100”, then press ENTER.**

Displays the alarm settings.

- When the “Speakers” - “Amplifier Mode” setting is “Standard (A, B, or A +B)”, You can set the volume for Speaker A and Speaker B independently.

6 **Check the displayed alarm settings and press ENTER.**

The display shows “Complete!!” and the setting is completed.

Clock

■ Set the current time

You can automatically adjust the clock of this unit using the Internet.

- To use this function, the unit must be connected to the Internet.

1 **Use Cursor Up/Down buttons to select your time zone (Time Zone), then press ENTER.**

2 **Use Cursor Up/Down buttons to select the summer time, then press ENTER.**

On:	Set the summer time to on.
Off (Default)**:**	Set the summer time to off.

Clock Mode

You can display the time when in standby by setting the Clock Mode.

On:	Time is displayed in standby.
Off (Default)**:**	Time is not displayed in standby.

- When in standby and “Clock Mode” is set to “On”, the unit consumes more standby power than when in normal standby.

CD Auto Play

When the disc tray is closed, the unit can detect the CD, automatically switch the input source to “CD” and start playback.

On (Default)**:**	Performs automatic playback.
Off:	Does not perform automatic playback.

Status Light

You can adjust the brightness of the status LED. You can also link the status LED to the brightness of the display.

Sync (Default)**:**	The brightness of the status LED is synchronized to the brightness of the display.
100 – 0	

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.
Custom:	Sets the minutes (between 1 and 99) before the unit automatically goes into standby. After setting the amount of time with 0 – 9 buttons, press ENTER to confirm the setting.

Firmware

Displays information for the current firmware.

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

Network Information

Displays network information.

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

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.

On (Default)**:**	Enables the Wi-Fi function.
Off:	Disables the Wi-Fi function.

Bluetooth

■ Bluetooth

Stopping Bluetooth receiver and transmitter functions reduces a source of noise that affects sound quality, enabling higher sound quality playback.

On (Default)**:**	Enables the Bluetooth function.
Off:	Disables the Bluetooth function.

■ Headphone

Enables or disables the Bluetooth headphones transmitter.
Perform these settings when you are listening to audio playback of this unit with Bluetooth headphones.

On	Enables the Bluetooth headphones transmitter feature.
Off (Default)**:**	Disables the Bluetooth headphones transmitter feature.

■ Output Mode

Selects the audio output method.

HP + Speakers (Default)**:**	Audio is output to Bluetooth headphones and speakers.
Headphones:	Audio is output to Bluetooth headphones only.

■ Devices

- Available devices are displayed in the list once you start pairing mode on the Bluetooth headphones you want to connect. Select your Bluetooth headphones from the list to pair them.
- This unit can only pair with one Bluetooth headphone at a time. However, up to 8 Bluetooth headphones can be registered. Switch between registered devices from “Devices” in the “Bluetooth” setup menu.
- To remove a saved Bluetooth device from the list, use the Cursor Up/Down buttons to select it, then press the OPTION button and select “Forget This Device”.

- A2DP profile-compatible Bluetooth speakers can be connected following the same steps used to connect Bluetooth headphones.

NOTE

- Bluetooth transmitter and Bluetooth receiver function cannot be used at the same time. Bluetooth transmitter function is not available when listening to music on a Bluetooth device.
- Even when “Headphone” is set to “On”, press Bluetooth on the remote control to select the “Bluetooth” source and enable the Bluetooth receiver function.
  To listen to music stored on Bluetooth devices such as smartphones on this unit, press Bluetooth on the remote control to switch the input source to Bluetooth, then reconnect the Bluetooth device.
- Menu settings for Bluetooth headphones transmitter are not available when this unit is grouped within the HEOS app.
- Bluetooth headphones cannot be connected if a HEOS Built-in device is playing an input source from this unit.

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”.
- Although the setting is “Off” when purchased, it turns “On” automatically when the next operation is performed.
  - Paring with a Bluetooth device
  - Wireless LAN connection
  - Connect a LAN cable to the NETWORK connector

  Once the setting is made in the setting menu, the setting will not be switched automatically even if the above operations are performed.

NOTE

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

AirPlay Setup

This unit supports the “WAC (Wi-Fi Accessory Configuration)” setup mode of Apple Inc. In the WAC setup mode, use your iOS device (iPhone/iPod/iPad) to connect to the network. By connecting your iOS device with this unit, this unit can be automatically connected to the same network.

1. Select “AirPlay Setup” and press ENTER.
   - This unit switches to the WAC setup mode.
2. At the bottom of the Wi-Fi setup screen for iOS devices, select “Marantz MCR 60n” from “SET UP NEW AIRPLAY SPEAKER...”.
   - Make sure the iOS device is connected to the wireless LAN (Wi-Fi) router.
3. Select a network to connect this device and press “Next”.
4. Follow the on-screen instructions to complete the connection.
   - When connected, “Connected” is shown on the display.

NOTE

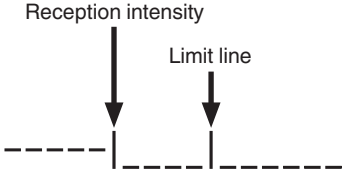
- The firmware version of your iOS device must support iOS 10.0.2 or later.
- The WAC setup mode lasts approximately 15 minutes. If the setup is not completed within 15 minutes, the WAC setup mode is canceled automatically. If you cancel the WAC setup mode manually, press the BACK button.

DAB

Making the DAB settings.

Tuning Aid

The reception intensity of the currently tuned in frequency is displayed. Use this if your preferred station cannot be received.



1 **Use Cursor Up/Down buttons to select a frequency to tune into. It takes around 4-5 seconds to correctly display the reception intensity (–|) after selecting a frequency.**

2 **If necessary, adjust the position of the antenna so that the reception intensity (–|) passes to the right of the limit line (|). The station can now be received.**

3 **Press ENTER to select the station and exit "Tuning Aid".**

Station Order

The service list is created with the auto scan function.

Alphanumeric (Default)**:**	In alphabetical order.
Multiplex:	In order of frequency.

DRC (Dynamic Range Control)

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

Off / 1/2 / 1 (Default : 1)

DAB Initialize

When the "DAB Initialize" procedure is performed, all the preset memory settings for the stations and DABs are reset.

DAB Version

The DAB module's version is displayed.

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Tips

I want to listen to high sound performance playback

- The Wi-Fi function can be stopped to prevent noise that affects the sound quality. Set “Wi-Fi” to “Off” in the setup menu. (☞ p. 109)
- Stopping Bluetooth function reduces a source of noise that affects sound quality, enabling higher sound quality playback. Set “Bluetooth” to “Off” in the setup menu. (☞ p. 110)

I want to adjust the tone myself

- Set “Dynamic Bass Boost”, “Bass”, “Treble” and “Balance” in the option menu (☞ p. 83)

I want sound playback that is faithful to the original sound

- Set “Sound Mode” in the option menu to “Direct”. (☞ p. 85)

I want to play TV audio at higher quality

- Connect the HDMI terminal of your TV that supports the eARC/ARC function to the HDMI eARC/ARC terminal of this unit and switch the input source to HDMI. (☞ p. 26)
- If you are using a TV that does not support the eARC/ARC function or a TV that does not have an HDMI terminal, the TV audio can be played by this unit using an Optical connection. (☞ p. 26)

I want to prevent this unit from going into standby by linking to the power off operation of an HDMI connected TV

- Change the “HDMI Power Off Control” setting to “Off”. (☞ p. 104)

I want to turn the display off

- Press the DIMMER button to turn the display off. (☞ p. 85)

I want to display the clock constantly

- The clock can be constantly displayed by setting “Clock Mode” to “On”. (☞ p. 107)

I want to make the volume of the headphones the same as that of the speakers

- You can increase the sound from the headphones at the same volume setting by changing the “HP Amplifier Gain” settings. (☞ p. 99)

Simple operations in the power off state

- When an input source select button, ▷II button and SMART SELECT buttons on the remote control, as well as ⏏ key, SMART SELECT buttons and ▷II key on the main unit is pressed, the operation is performed at the same time as the unit switches on.
- When the “Network Control” function is set to “On”, you can perform playback, or other operations through AirPlay or HEOS app. (☞ p. 111)

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. 99)

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

- Set “Speakers” in the settings menu to “Response”. (☞ p. 101)

I want to hide and make un-selectable the input sources that are not being used, or rename the input source

- Select the input source in the HEOS app under “Inputs” and configure it. (“Settings” - “Music Sources” - “Inputs” - (“Your Device Name”))
  The settings are also reflected in the displays of the screen of this unit.

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. 32)
- This unit is in standby mode. Press the ⏻ button on the main unit or the remote control unit. (☞ p. 35)

Power automatically turns off.

- The sleep timer is set. Turn on the power again. (☞ p. 86)
- “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. 108)
- “HDMI Power Off Control” is set. The power of this unit turns off (standby) by linking to the power off operation of an HDMI connected TV. To disable “HDMI Power Off Control”, set “HDMI Power Off Control” on the setup menu to “Off”. (☞ p. 104)

Power indicator is flashing

The power turns off and the power indicator blinks in orange.

【1 long blink and 2 short blinks】

- Stop playback on the playback device, and then turn the power off and on again.
- If the problem is not solved by turning the power off and on again, this unit’s amplifier circuit has failed. Unplug the power cord and contact our customer service center.

【1 long blink and 3 short blinks】

- This unit’s power circuit has failed. Unplug the power cord and contact our customer service center.

【1 long blink and 4 short blinks】

- 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.
- Please re-install this unit in a place having good ventilation.
- Stop playback on the playback device, and then turn the power off and on again.
- If the problem is not solved by turning the power off and on again, unplug the power cord and contact our customer service center.

【1 long blink and 5 short blinks】

- 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. 20)
- Stop playback on the playback device, and then turn the power off and on again.
- If the problem is not solved by turning the power off and on again, this unit's amplifier circuit or power circuit has failed. Unplug the power cord and contact our customer service center.

【1 long blink and 6 short blinks】

- This unit's power circuit has failed. Unplug the power cord and contact our customer service center.

Flashing orange.

- The clock is incorrect because the AC was temporarily switched off, etc. Check the network connection and adjust the clock. (☞ p. 106)

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. 8)
- Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°. (☞ p. 8)
- Remove any obstacle between this unit and the remote control unit.
- Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks. (☞ p. 8)
- 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.
- If "Remote Lock" is shown on the display, unlock the remote lock to enable the reception function of the remote control signal. (☞ p. 93)

Display on this unit shows nothing

Display is off.

- Press the DIMMER button, and change the setting to anything other than off. (☞ p. 85)

No sound comes out

No sound is produced. Or sound is distorted.

- Check the connections for all devices. (☞ p. 18)
- 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. 19)
- Securely tighten the speaker terminals. Check speaker terminals for looseness. (☞ p. 20)
- Check that the proper input source is selected. (☞ p. 36)
- Adjust the volume. (☞ p. 36)
- Cancel the mute mode. (☞ p. 36)
- Check that the correct input source is selected when audio is being input to this unit from an external device. (☞ p. 36)
- 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 speakers, the subwoofer or audio output when headphones are connected. (☞ p. 11)
- To playback via a Bluetooth connection, perform pairing between this unit and the Bluetooth device. (☞ p. 45)
- Audio is output to your Bluetooth headphones, but not to speakers or audio outs when “Output Mode” set to “Headphones”. Change “Output Mode” to “HP + Speakers” to output audio from your Bluetooth headphones as well as your speakers or audio outs. (☞ p. 49)
- It may be that only speaker A or speaker B is selected. Make sure the speakers are correctly connected then push the SPEAKER A/B button to check. (☞ p. 88)

Sound is interrupted or noise occurs

During playback from the Internet radio or USB flash drive, sound is occasionally interrupted.

- When the transfer speed of the USB flash drive 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.

During playback from the CD-R/CD-RW, sound is occasionally interrupted.

- The sound may skip during playback of a CD-R/CD-RW containing a high-resolution audio source.
- This may be caused by poor recording conditions, or the disc itself may be of poor quality. Use a correctly recorded disc.

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. 30)
  - 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. 109)

Noise often occurs in DAB/FM broadcasting.

- Change the antenna orientation or position. (☞ p. 29)
- Use an outdoor antenna. (☞ p. 29)
- Separate the antenna from other connection cables. (☞ p. 29)

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. 99)

Headphone volume is low.

- Switch “HP Amplifier Gain” to “High” if using headphones with high impedance or low sensitivity. (☞ p. 99)

Left/right volume balance is unbalanced.

- Set “Balance” in the option menu. (☞ p. 84)

No sound is produced from subwoofer.

- Check the subwoofer connections. (☞ p. 24)
- Turn on the subwoofer’s power.
- Set “Subwoofer” in the setup menu to “On”. (☞ p. 102)

Set values are not reflected in “DBB/Tone” in the option menu.

- “Dynamic Bass Boost”, “Bass” and “Treble” setting values are not reflected in audio out (Only when “Fixed” is selected) or subwoofer out.
- Set “Sound Mode” in the option menu to something other than “Direct”. (☞ p. 85)
- This unit cannot adjust “DBB/Tone” in the option menu for audio output to Bluetooth headphones.

AirPlay cannot be played back

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

- 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. 30)
- The firmware on iTunes / iPhone / iPod touch / iPad / Mac is not compatible with AirPlay. Update the firmware to the latest version.

Audio is not output.

- The volume on iTunes / iPhone / iPod touch / iPad / Mac is set to the minimum level. The volume on iTunes / iPhone / iPod touch / iPad / Mac 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 / Mac screen and select this unit. (☞ p. 79)

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

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

USB flash drives cannot be played back

USB flash drive is not recognized.

- Disconnect and reconnect the USB flash drive. (☞ p. 28)
- Mass storage class compatible USB flash drives are supported.
- This unit does not support a connection through a USB hub. Connect the USB flash drive directly to the USB port.
- The USB flash drive must be formatted to FAT32 or NTFS.
- Not all USB flash drives are guaranteed to work. Some USB flash drives are not recognized. When using a type of portable hard disc drive compatible with the USB connection that requires power from an AC adapter, use the AC adapter that came with the drive.

Files on the USB flash drive are not displayed.

- Files of a type not supported by this unit are not displayed. (☞ p. 143)
- 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 flash drive.
- When multiple partitions exist on the USB flash drive, 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 flash drive cannot be played.

- Files are created in a format that is not supported by this unit. Check the formats supported by this unit. (☞ p. 143)
- 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 flash drive 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 setup menu to "On". The Bluetooth function does not work when "Bluetooth" is "Off". (☞ p. 110)

Smartphones and other Bluetooth devices cannot be connected.

- Smartphones and other Bluetooth devices cannot be connected when "Headphone" is set to "On". Press Bluetooth on the remote control to switch the input source to Bluetooth, then connect the device. (☞ p. 110)

Cannot connect Bluetooth headphones.

- Bring the Bluetooth headphones near to this unit.
- Turn the power of the Bluetooth headphones off and on again, and then try again.
- Go to “Network” - “Bluetooth”, and set “Headphone” to “On” within the setup menu. (☞ p. 110)
- Make sure this unit is not already connected to another pair of Bluetooth headphones. Check the currently connected Bluetooth headphones in the “Devices” menu. (☞ p. 110)
  Disconnect the connected Bluetooth headphones before connecting the ones you want to use.
- Bluetooth headphones cannot be connected if Bluetooth is being used as an input source.
- Bluetooth headphones cannot be connected if this unit is grouped in the HEOS app. Remove this unit from the group to enable Bluetooth headphones connection.
- Bluetooth headphones cannot be connected if a HEOS Built-in device is playing an input source from this unit.
- The Bluetooth headphones cannot connect with this unit if it is not compatible with the A2DP profile.
- Connection and operation are not guaranteed for all Bluetooth-enabled devices.
- This unit can only connect to one Bluetooth headphone at a time. However, up to 8 Bluetooth headphones can be registered. You can switch between registered devices from “Devices” in the “Bluetooth” menu. (☞ p. 110)

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 sound is cut off or noise occurs when using Bluetooth headphones.

- Move the Bluetooth headphones closer to this unit.
- Remove obstructions between the Bluetooth headphones and this unit.
- Reconnect the Bluetooth headphones.
- To prevent electromagnetic interference, locate this unit away from microwave ovens, wireless LAN devices and other Bluetooth devices.
- We recommend using wired LAN to connect this unit and other devices.
- Bluetooth transmits on the 2.4 GHz band which may interfere with Wi-Fi transmitted on this band. Connect this unit and other devices to Wi-Fi network on a 5 GHz band if available on your Wi-Fi router.

Audio is delayed on my Bluetooth headphones.

- This unit cannot adjust audio delay on Bluetooth headphones.

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. 30)

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. 149)
- The firewall function is enabled on the router. Check the firewall setting.
- Check the power of the router is on.
- 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. 38)
- 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. 148)
- 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. 30)
- 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.

Files on PC or NAS are not displayed.

- Files of a type not supported by this unit are not displayed. (☞ p. 148)

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.

- Make sure your mobile device is connected to your wireless network before setting up this unit. (☞ p. 54)
- You can connect this unit to your network router using an Ethernet cable sold separately. Once connected via Ethernet, the HEOS app should recognize this unit and you can manually move it to your wireless network using “Settings” - “My Devices” - (“Device Name”) - “Network”.
- 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 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 10.0.2 or later needs to be supported.

Cannot playback Discs

Cannot playback when the play button is pressed, or cannot correctly play back a specific part of the disc.

- The disc is dirty or scratched. Either clean the disc, or insert a different disc. (☞ p. 146)

Cannot playback CD-R/CD-RW.

- Discs cannot be played back unless they have been finalized. Use a finalized disc. (☞ p. 140)
- This may be caused by poor recording conditions, or the disc itself may be of poor quality. Use a correctly recorded disc.
- Files are created in a format that is not supported by this unit. Check the formats supported by this unit. (☞ p. 141)

“No Disc” is displayed.

- “No Disc” is displayed if the disc is loaded upside-down or if no disc is loaded.

“System Error” is displayed.

- “System Error” is displayed when an error not caused by disc, format, etc., occurs. Contact our customer service center.

“Can’t Read Disc” is displayed.

- “Can’t Read Disc” is displayed when the inserted disc cannot be read because it is not compatible with this unit or is dirty or scratched. Check the disc.

“Wrong Format” is displayed.

- “Wrong Format” is displayed for files created in a format that is not supported by this unit. Check the formats supported by this unit. (☞ p. 141)

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

“Signal Unlock” is displayed.

- When digital audio signals cannot be detected properly, “Signal Unlock” is displayed. (☞ p. 76)

“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. 76)

The input source switches to “HDMI” or “Optical”

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

- Set “Off” to “Auto-Play”. (☞ p. 103)

The HDMI control function does not work

The HDMI control function does not work.

- You cannot operate devices that are not compatible with the HDMI control function. In addition, depending on the connected device or the settings, the HDMI control function may not work. In this case, operate the external device directly.
- Check that the HDMI control function setting is enabled on TV connected to this unit.

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

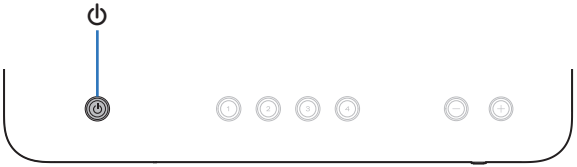
If network contents cannot be played or the unit cannot connect to the network, restarting the unit may improve the problem. We recommend restarting the unit before returning the settings to the default settings. (☞ p. 116)

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.

【Top panel】



【Front panel】

1 **Press ⏻ on the main unit to turn on power to the unit.**

2 **Press the USB button on the remote control unit to switch the input source to “USB Music”.**

- If a rotating icon indicating the system is starting up is displayed, wait until the icon disappears and then proceed with the following steps.

3 **When the power to this unit is on, press and hold ⏻ for 3 seconds or more while pressing ▷II on the main unit.**

4 **Remove your fingers from the two buttons when “Please wait” appears on the display.**

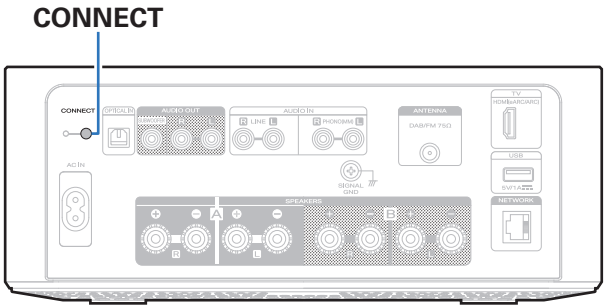
5 **“Completed” is shown in the display when reset is complete.**

NOTE

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

Factory Restore

When the unit or the network functions do not work properly, operation may be improved by restoring the firmware to the factory defaults.
Perform this operation if it does not work after attempting “General” - “Reset” of the settings menu. (☞ p. 108)
After performing the Factory Restore, various settings are reset to the default settings. Configure the network settings and update the firmware again.



WARNING

By initiating Factory Restore mode, you will be installing limited recovery firmware on this unit. Functionality will remain limited until a firmware update is performed over the Internet. Do not perform a Factory Restore if you do not have this unit connected to your home network.

1 **Unplug the power cord from the power outlet.**

2 **Plug in the power cord while holding down CONNECT.**

3 **When “Factory Restore” appears on the display, release the buttons.**

When the Factory Restore is complete, “Factory Restore Completed” appears on the display for about 5 seconds, and the unit automatically restarts.

- This operation takes time because it requires reconnecting to the network, restoring and updating the firmware.
- If this operation does not improve the problem, contact our customer service center.

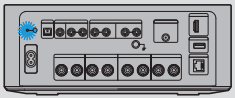
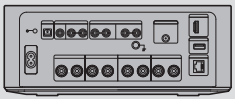
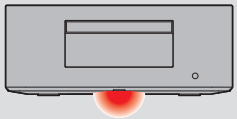
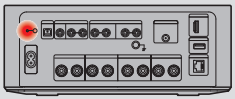
NOTE

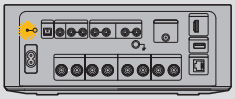
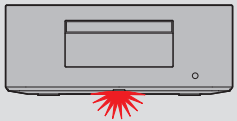
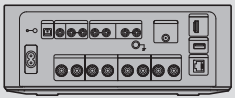
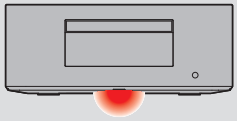
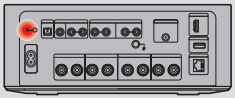
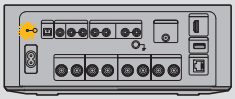
- Do not turn off the power until the Factory Restore is complete.

Status LED table

The LEDs on the front panel and rear panel change to indicate the current status.

Status	Front LED action	Rear LED action	Description
Standby	(off)	(off)	Power is off, or this unit is in standby. (☞ p. 35)
Power on	(blink)	(off)	This unit is starting up or connecting to the network.
	(solid)	(off)	This unit is connected to the network.
	(solid)	(solid)	This unit is unable to connect to the network. Try to connect this unit again.

Status	Front LED action	Rear LED action	Description
Bluetooth	(two blinks (repeating))	 (two blinks (repeating))	This unit is pairing via Bluetooth.
	(solid)	 (off)	This unit is paired via Bluetooth.
	 (for 3 sec. solid)	 (for 3 sec. solid)	This unit failed to pair to the Bluetooth device. Try to pair again. (☞ p. 45)

Status	Front LED action	Rear LED action	Description
Firmware update	(blink)	 (blink)	Firmware is being updated.
	 (slow blink (Not fade))	 (off)	There is a firmware error. Check your Internet connection quality, relaunch the app, then try to update the firmware again.
Error	 (solid)	 (solid)	There was a setup error. Check your usage environment, then follow the correct procedure to try setup again. If the error occurs again, restore factory settings and try setup again. (☞ p. 136)
Reset	(blink)	 (blink)	Factory settings have been restored.

Playing back Discs

Playable media	
CD	
CD-R	
CD-RW	

NOTE

- Some discs and some recording formats cannot be played.
- Non-finalized discs cannot be played.

Files

CD-R and CD-RW discs created in the format described below can be played.

Writing software format

ISO9660 level 1

- When written in other formats, it may not be possible to play the disc properly.

Maximum number of playable files and folders

Total number of folders and files : 512
Maximum number of folders : 256

File format

MPEG-1 Audio Layer-3
WMA (Windows Media Audio)

Tag data

ID3-TAG (Ver.1.x and 2.x)
META-Tag (Compatible with title, artist and album names)

■ Specifications of supported files

	Sampling frequency	Bit rate	Extension
MP3	32/44.1/48 kHz	32 – 320 kbps	.mp3
WMA	32/44.1/48 kHz	64 – 192 kbps	.wma

NOTE

- Be sure to give files the extension. Files with any other extensions or files with no extensions cannot be played.
- Mac OS files assigned with filenames that begin with "._" are not music data and cannot be played back.
- Recordings you have made should only be used for your personal enjoyment, and as per copyright laws may not be used in other ways without permission of the copyright holder.

- Only music files that are not copyright-protected 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.
- The maximum number of files and folders that can be played differs depending on conditions such as the length of the file name or folder name or the number of levels in the folder hierarchy.

Playback order of music files

When there are multiple folders containing music files, the playback order of folders is automatically set when this unit reads the media. Files in each folder are played in alphabetical order of file name.

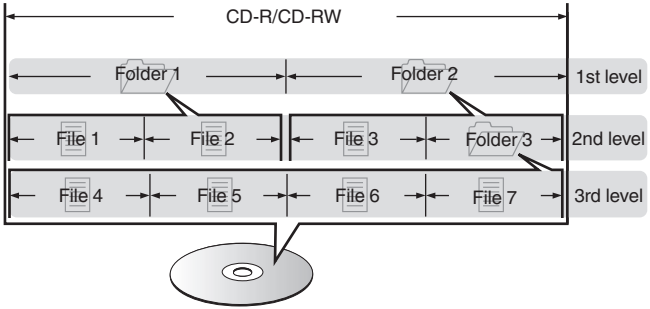
CD-R/CD-RW

For playback of files on CD-R or CD-RW, files in all folders on the first layer are played first, next on the second layer, then next on the third layer, and so on in this order.

- The playback order displayed on a PC may differ from the actual playback order.
- The playback order with a CD-R/CD-RW may differ, depending on the writing software.

About discs and files

Music files recorded on CD-R/CD-RW are divided into large segments (folders) and small segments (files). Files are stored in folders, and folders can be placed for storage in a hierarchy. The unit can recognize up to 16 levels of folders.



- When writing music files on a CD-R/CD-RW disc, set the writing software's format to "ISO9660". The files may not play properly if they are recorded in other formats. For details, refer to the instructions of your writing software.

Playing back a USB flash drives

- 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/ 176.4/192/352.8/384 kHz	–	.wav
MPEG-4 AAC∗1	32/44.1/48 kHz	48 – 320 kbps	.aac/.m4a
FLAC	44.1/48/88.2/96/ 176.4/192/352.8/384 kHz	–	.flac
Apple Lossless∗2	44.1/48/88.2/96/ 176.4/192/352.8/384 kHz	–	.m4a
DSD	2.8/5.6/11.2 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 flash drive
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.

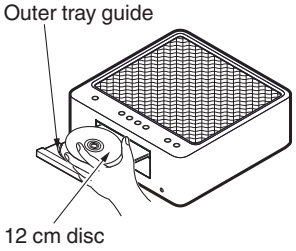
*2 The allowable number of files may differ according to the USB flash drive capacity and the file size.

Cautions on using media

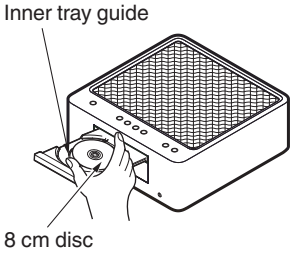
Inserting a disc

- Set the disc in the tray label side up.
- Make sure the disc tray is fully open when inserting the disc.
- Place the discs flatly, 12 cm discs in the outer tray guide (Figure 1), 8 cm discs in the inner tray guide (Figure 2).

【Figure 1】



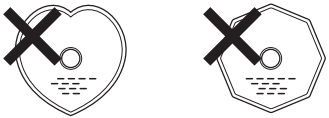
【Figure 2】



- Place 8 cm discs in the inner tray guide without using an adapter.

NOTE

- Only load one disc at a time. Loading two or more discs can damage the unit or scratch the discs.
- Do not use cracked or warped discs or discs that have been repaired with adhesive, etc.
- Do not use discs on which the sticky part of cellophane tape or labels is exposed or on which there are traces of where labels have been removed. Such discs can get caught inside the player and damage it.
- Do not use discs in special shapes, as they may damage the unit.



- Do not push the disc tray in by hand when the power is off. Doing so could damage the unit.
- Do not place any foreign objects in the disc tray. Doing so could result in damage.
- If the unit is left in a room full of smoke from cigarettes, etc., for long periods of time, the surface of the optical pickup may get dirty, preventing it from receiving signals properly.

How to handle media

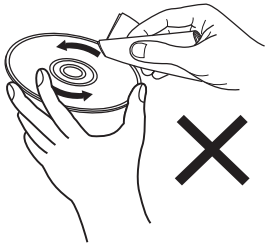
- Do not get fingerprints, oil or dirt on discs.
- Take special care not to scratch discs when removing them from their cases.
- Do not bend or heat discs.
- Do not enlarge the hole in the center.
- Do not write on the labeled (printed) surface with ball-point pens, pencils, etc., or stick new labels on discs.
- Condensation may form on discs if they are moved suddenly from a cold place (outdoors for example) to a warm place, but do not try to dry discs with a hairdryer, etc.
- Do not eject a USB flash drive or turn off the unit while a USB flash drive is being played. This may result in malfunction or loss of the USB flash drive's data.
- Do not attempt to open or modify a USB flash drive.
- USB flash drive and files can be damaged by static electricity. Do not touch the metal contacts of a USB flash drive with your fingers.
- Do not use warped USB flash drive.
- After use, be sure to remove any disc or USB flash drive, and store it in its proper case, to avoid dust, scratches and deformation.
- Do not store discs in the following places:

  1. Places exposed to direct sunlight for long periods of time
  2. Dusty or humid places
  3. Places exposed to heat from heaters, etc.

Cleaning discs

- If there are fingerprints or dirt on a disc, wipe them off before using the disc.
- Use a commercially available disc cleaning set or a soft cloth to clean discs.

Gently wipe the disc from the inside towards the outside.



Do not wipe with a circular motion.

NOTE

- Do not use record spray, antistatic agents, benzene, thinner or other solvents.

Digital input

■ Specifications of supported audio formats

❑ HDMI eARC/ARC

	Sampling frequency	Bit length
Linear PCM (2-channel)	32/44.1/48/88.2/96/176.4/192 kHz	16/20/24 bits
Multi-channel Linear PCM (7.1-channel)	32/44.1/48/88.2/96/176.4/192 kHz	16/20/24 bits
Dolby Digital (5.1-channel)	48 kHz	–
Dolby Digital Plus (7.1-channel)	48 kHz	–

❑ Optical

	Sampling frequency	Bit length
Linear PCM (2-channel)	32/44.1/48/88.2/96/176.4/192 kHz	16/20/24 bits
Dolby Digital (5.1-channel)	48 kHz	–

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/ 176.4/192/352.8/384 kHz	–	.wav
MPEG-4 AAC∗1	32/44.1/48 kHz	48 – 320 kbps	.aac/.m4a
FLAC	44.1/48/88.2/96/ 176.4/192/352.8/384 kHz	–	.flac
Apple Lossless∗2	44.1/48/88.2/96/ 176.4/192/352.8/384 kHz	–	.m4a
DSD	2.8/5.6/11.2 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.

About HDMI

This unit supports the following HDMI functions.

- **eARC (Enhanced Audio Return Channel)/ARC (Audio Return Channel) function**
  Enjoy movies, music, etc., on your TV simply by connecting an eARC/ARC function-compatible TV to this unit via HDMI.
- **HDMI control function**
  Connect an HDMI control-compatible TV and this unit via HDMI and enable the HDMI control to enable linked control from either device.
  - Input source switching
    If the TV is turned on, this unit automatically powers on and switches the input source.
  - Power off link
    The TV power off operation is linked so this unit also turns off.
  - Volume adjustment
    The volume of this unit can be adjusted using the TV remote control.
  - Audio output destination switching
    If this unit is turned on, TV audio is output from this unit. If this unit is turned off, TV audio is output from the speakers of the TV.

- Some functions may not operate depending on the connected TV.

Explanation of terms

■ Dirac Live

Dirac Live® Room Correction

Dirac Live® is an advanced room correction technology developed by Dirac Research. As the most advanced room correction technology available on the market, Dirac Live helps listeners to correct for one of the weakest components in the audio chain: the listening room. Dirac Live not only corrects the frequency response, but also the impulse response of the loudspeakers in a room, yielding improved imaging and timbre, better clarity, tighter bass, and less early reflections, as well as reduced resonances and room modes. The market leader in room correction, this sophisticated algorithm is used in high-end AVRs, in luxury car sound systems from companies such as Rolls Royce, BMW, and Bentley, as well as in thousands of high-end digital cinema theaters across the world.

■ Dolby

Dolby Digital

Dolby Digital is a multi-channel digital signal format developed by Dolby Laboratories.
A total of 5.1-channels are played: 3 front channels (“FL”, “FR” and “C”), 2 surround channels (“SL” and “SR”) and the “LFE” channel for low frequency effects. Because of this, there is no crosstalk between channels and a realistic sound field with a “three-dimensional” feeling (sense of distance, movement and positioning) is achieved. This delivers a thrilling surround sound experience in the home.

Dolby Digital Plus

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1-channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback device.

■ 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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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 / iPad / Mac 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/WPA2-Personal

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

WPA2/WPA3-Personal

WPA2/WPA3-Personal Mode was defined by Wi-Fi Alliance® to minimize user disruption and provide a gradual migration path to WPA3-Personal while maintaining interoperability with WPA2-Personal only devices.

WPA3-Personal

WPA3-Personal replaces the WPA2-Personal Pre-Shared Key (PSK) authentication with Simultaneous authentication of equals (SAE). Unlike PSK, SAE is resistant to offline dictionary attacks.

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

Finalizing

This process enables DVD/CD recorded with a recorder to be played by other players.

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

Works with Apple AirPlay

Apple, AirPlay, iPad, iPad Air, iPad Pro, iPhone and Mac are trademarks of Apple Inc., registered in the U.S. and other countries.

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

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roon READY

Being Roon Ready means that Marantz uses Roon streaming technology, for an incredible user interface, simple setup, rock-solid daily reliability, and the highest levels of audio performance, without compromise.

DIRAC

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Specifications

■ Audio amplifier

- **CD player**

Playable frequency response:	10 Hz – 20 kHz
Wow & flutter:	Below measurable limits (± 0.001 %)
Sampling frequency:	44.1 kHz

- **Audio amplifier**

Rated output:	2-channel driving 65 W + 65 W (4 Ω/ohms, 1 kHz, THD+N 0.7 %)
Output terminals:	Speaker: 4-16 Ω/ohms (impedance) Compatible with headphones/stereo headphones
Input sensitivity/impedance:	Analog In : 200 mV/30 kΩ/kohms
Total harmonic distortion (1 kHz, 5 W, 4 Ω/ohms):	Analog In: 0.1 %
S/N ratio (10 W, 4 Ω/ohms, IHF-A):	Analog In : 90 dB
Tone control:	DBB : +8 dB (100 Hz) Bass : ±10 dB (50 Hz) Treble : ±10 dB (15 kHz)

- **Audio in**

Input sensitivity/impedance:	200 mV/30 kΩ/kohms
Frequency response:	10 Hz – 40 kHz (±3 dB)
S/N Ratio (10 W, 4 Ω/ohms, IHF-A):	90 dB
Total harmonic distortion (1 kHz, 5 W, 4 Ω/ohms):	0.1 %

- **Phono**

Input sensitivity/impedance:	2.5 mV/47 kΩ/kohms
Frequency response:	20 Hz – 20 kHz
S/N Ratio (IHF-A):	74 dB

■ Tuner section

	[FM]
Receiving Range:	87.50 MHz – 108.00 MHz
Effective sensitivity:	1.2 µV / 75 Ω/ohms
FM Channel separation:	42 dB (1 kHz)
FM S/N ratio:	Monaural : 70 dB Stereo : 70 dB
FM THD+N (1 kHz):	Monaural : 0.4 % Stereo : 0.4 %

■ DAB tuner section

Receiving Range:	174.928 (5A) – 239.200 (13F) MHz (BAND III)
Sensitivity:	–85 dBm
S/N ratio:	95 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

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

■ Bluetooth section

Supported Audio Formats:	SBC
Supported Audio Applications:	Classic Audio (AVRCP) - RX Classic Audio - TX
Transmit Power:	Power Class 1
Typical Range:	30 m in line of sight *2

*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.

■ Clock/Alarm/Sleep

Clock type:	Power line frequency synchronized method (Within ±60 seconds per month)
Alarm:	Alarm 1/Alarm 2: 2 types
Sleep:	Sleep timer: Max. 90 minutes

■ General

Operating temperature: +5 ℃ - +35 ℃

Power supply: AC 230 V, 50/60 Hz

Power consumption: 55 W

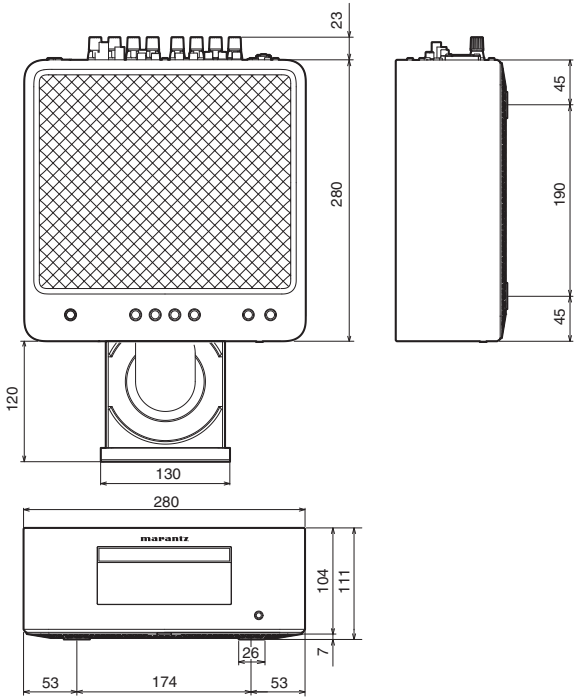
Power consumption in standby modes :

Standby modes	Setting items in the menu					Power consumption
	Default Input (☞ p. 103)	Auto-Play (☞ p. 103)	Wi-Fi (☞ p. 109)	Bluetooth (☞ p. 110)	Network Control (☞ p. 111)	
Normal standby	None	Off	Off	Off	Off	0.3 W
Optical standby	Optical In	On	Off	Off	Off	0.5 W
CEC standby	TV HDMI (eARC/ ARC)	On	Off	Off	Off	0.5 W
Wi-Fi connect (5GHz)	None	Off	On	Off	On	2.0 W
Ethernet connect	None	Off	Off	Off	On	2.0 W
Bluetooth connect	None	Off	Off	On	On	2.0 W
All standby	TV HDMI (eARC/ ARC)	On	On	On	On	3.0 W

Battery type: Zinc-Carbon (for remote control unit)

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

■ Dimensions (Unit : mm)



■ Weight : 4.2 kg

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