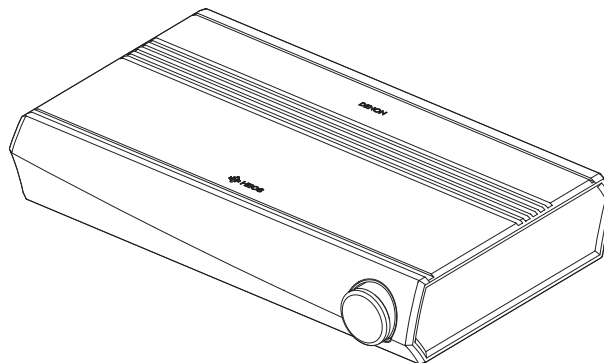




Owner's Manual

HEOS AVR



Introduction	5	Setting up your first HEOS AVR	20
Before your begin	6	Adding more HEOS devices	21
System requirements	6	Adding wired HEOS devices	21
Network requirements	6	Adding wireless HEOS devices	21
Controller requirements	7	Connecting devices	22
Getting to know your HEOS AVR	8	Connecting to your TV	22
Front panel	10	HDMI connection	22
Bottom	11	Setting the HDMI control function	22
Back panel	11	Disable your television's speakers	23
Remote control unit	12	Playing HDMI (ARC) - Best choice	24
Placing your HEOS AVR	13	Playing HDMI (without ARC) - Better choice	25
Connecting speakers	14	Connecting an other devices	26
About the cable labels for channel identification	15	Connecting to your HDMI equipment	26
Before using the remote control unit	16	Connecting an audio playback device	26
Replacing the battery	16	Connecting a USB storage device	27
Operating range of the remote control unit	17	IR repeater	27
Powering your HEOS AVR	18	Pairing a HEOS Subwoofer and Surrounds	28
Getting the HEOS app	19	Pairing the HEOS Subwoofer	29
		Adding surround speakers	29
		Unpairing HEOS Subwoofer and Surrounds	30

Using your HEOS AVR	31	Playing music from Bluetooth device	48
HEOS account	31	Pairing the HEOS device with your Bluetooth devices	48
What is a HEOS account?	31	Playing from streaming music services	49
Why do I need a HEOS account?	31	Adding a music service	49
Signing up for a HEOS account	31	Changing music service settings	49
Selecting a room/device	31	Managing inputs	50
Listening to the same music in multiple rooms	32	Changing the name of the inputs	50
Grouping rooms	32	Hiding an input	50
Ungrouping rooms	33	Managing your phone	51
Grouping all rooms (party mode)	34	Using the favorite	52
Ungrouping all rooms	35	Adding to HEOS favorite	52
Selecting the music track or station from music sources	36	Deleting station from the HEOS favorite	52
Rearranging the now playing queue	38		
Deleting songs from the play queue	38		
Deleting all songs from the play queue	39		
Saving playlists	39		
Quick Select function	40		
Watching TV	41		
Watching other device	42		
Listening to radio	43		
Playing music stored on your mobile device	44		
Playing music from your networked PC or NAS	45		
Streaming an external audio device to any HEOS device	46		
Playing music from a USB device	47		

Making adjustments	53	Basic troubleshooting	60
Adjusting the audio quality	53	My HEOS device won't connect to my network using the audio cable	60
Changing the TV connection	54	Cannot pair a Bluetooth mobile device with the HEOS device	60
Adjusting the TV input	54	Cannot hear Bluetooth music	60
TV Sound Grouping	54	My HEOS device turns off and the status LED flashes in red	61
Changing the name of Quick Select	55	Music cuts out or delays sometimes	61
Adjusting the status light brightness	55	I hear a delay when using the external input with my TV	62
Updating your system	56	I hear distortion when using the AUX input	63
Advanced features	57	Connecting to a WPS network	63
Wireless performance	57	Resetting your HEOS device	64
Power management	58	Restoring the HEOS device to factory defaults	64
Power modes	58	Contact Denon	65
Quick Start Mode	58	Status LED table	66
Deep Standby	59	Supported file types and codecs	74
Off	59	Supported audio formats (Coaxial/Optical)	74
		Specifications	75
		Information	78
		Trademarks	78

Thank you for purchasing this HEOS product. To ensure proper operation, please read this owner's manual carefully before using the product.

NOTE

- THIS DOCUMENT CONTAINS INFORMATION THAT IS SUBJECT TO CHANGE WITHOUT NOTICE.
For latest information, please visit <http://www.HEOSbyDenon.com>

Introduction

The HEOS AVR is part of the HEOS wireless multi-room sound system that enables you to enjoy your favorite music anywhere and everywhere around your home. By utilizing your existing home network and the HEOS app on your iOS or Android™ device, you can explore, browse, and play music from your own music library or from many online streaming music services.


- True multi-room audio - play different songs in different rooms or the same song in every room
- Utilizes your existing home wireless network for quick and easy setup
- Industry leading microsecond audio synchronization between HEOS device
- Legendary Denon audio quality
- If you are in a hurry, you can be enjoying great sounding music in no time by following the steps outlined in the HEOS Quick Start Guide (packaged with your HEOS device).



Please continue reading this Owner's Manual for more detailed information about the features and benefits of your HEOS AVR.

Before your begin

NOTE

- If you have already installed at least one HEOS device, please skip to the section "Adding more HEOS devices" ( p. 21).

System requirements

Before you begin installing your first HEOS device, please make sure you understand and meet a few basic requirements.

■ Network requirements

Wireless Router - In order to use your HEOS music system, you must have a working wireless (Wi-Fi) or ethernet network in your home. Even when connected to an Ethernet network, a Wi-Fi connection to the router is required to control the system using the HEOS Control app. If you do not have a wireless network, please contact your local Denon dealer or electronics retailer to assist you with purchasing and installing a wireless network in your home.

High Speed Internet Connection - HEOS accesses the Internet to stream music to your home from many popular online music services. HEOS is also designed to provide you with software updates, which are delivered via your home Internet connection. DSL, Cable, and Fiber services will provide the best experience and reliability. You may experience performance issues with slower Internet connections like satellite based services.

■ Controller requirements

You can control your HEOS wireless multi-room sound system using the free HEOS app on any iOS or Android mobile device that meets these minimum requirements:



iOS Minimum Requirements

- iOS version 8.0 or later
- iPhone® 4S or newer
- iPad® 2 or newer
- iPod touch® (5th generation) or newer



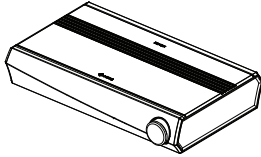
Android Minimum Requirements

- Android OS version 4.0 or later
- All resolutions

Getting to know your HEOS AVR

Unpack your HEOS AVR from the box and verify that the following items are included:

HEOS AVR



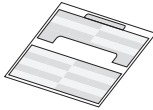
Quick Start Guide



Thank you note



Cable labels



Extended Protection Plan
(North America model only)



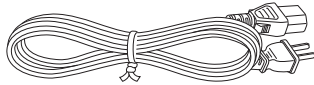
Warranty
(North America model only)



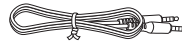
Safety instructions



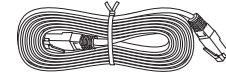
Power cord



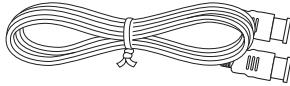
1/8 inch (3.5 mm) setup cable



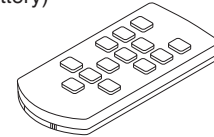
Ethernet cable



HDMI cable

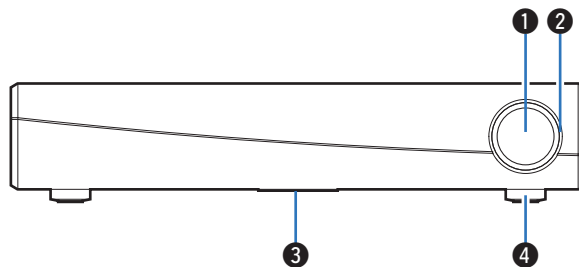


Optical cable

Remote control unit
(include battery)**NOTE**

- Please use the power cord included in the box for your device.

■ Front panel



① **Volume knob**

This adjusts the volume level.

② **Volume LED**

Lights according to the volume.

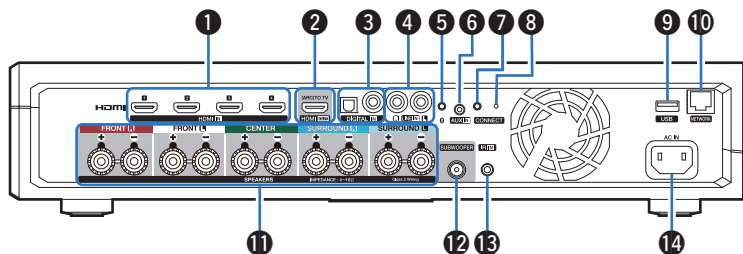
③ **Status LED**

Please refer to the “Status LED table” for LED color and state meaning. (☞ p. 66)

④ **Remote control sensor**

This receives signals from the remote control unit.

■ Back panel



1 HDMI connectors (HDMI IN)

Used to connect to the HDMI equipment with an HDMI cable.
([☞ p. 26](#))

2 HDMI connector to TV (HDMI OUT)

Used to connect to the TV with an HDMI cable. (Compatible with the ARC function) ([☞ p. 22](#))

3 Digital audio connectors (DIGITAL IN)

Used to connect devices equipped with digital audio outputs.
([☞ p. 26](#))

4 Analog audio connectors (LINE IN)

Used to connect audio devices with a stereo RCA cable.
([☞ p. 26](#))

5 Bluetooth button (📶)

Used in the Bluetooth pairing settings. ([☞ p. 48](#))

6 AUX jack (AUX IN)

Used to connect audio devices with a 1/8 inch (3.5 mm) cable.
([☞ p. 26](#))
Used to add the HEOS device to your wireless network.
([☞ p. 20](#))

7 CONNECT button

Used for Wi-Fi setup.

8 Connect in status LED

Indicates the status of this unit. ([☞ p. 66](#))

9 USB port

Used to connect USB storage devices. ([☞ p. 27](#))

10 NETWORK connector

Used to connect this unit to a wired Ethernet network. ([☞ p. 21](#))

11 Speaker terminals (SPEAKERS)

Used to connect speakers. ([☞ p. 14](#))

12 Subwoofer connector (SUBWOOFER)

Used to connect this unit to a powered subwoofer. ([☞ p. 14](#))

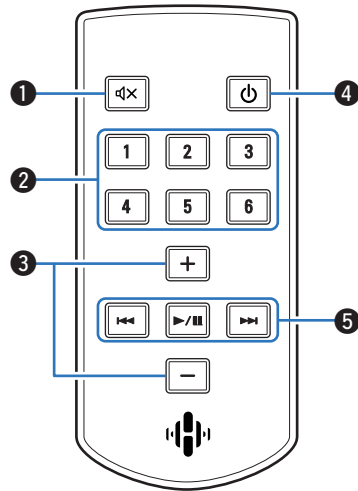
13 REMOTE CONTROL jack (IR IN)

Used to connect infrared receivers/transmitters in order to operate this unit and external devices from a different room. ([☞ p. 27](#))

14 AC inlet (AC IN)

Used to connect the power cord. ([☞ p. 18](#))

■ Remote control unit



① Mute button (🔇)

This mutes the output audio.

② Quick Select buttons (1 – 6)

These call up settings registered to each button, such as input source, volume level and sound mode settings. (👉 p. 40)

③ Volume up/down buttons (+, -)

These adjust the volume level.

④ Power button (🔌)

This toggles the power mode of this unit.

- Press the Power button on the remote control unit to switch to Quick Start Mode.
- Press and hold the Power button on the remote control unit for more than 3 seconds to switch to Deep Standby.

⑤ System buttons

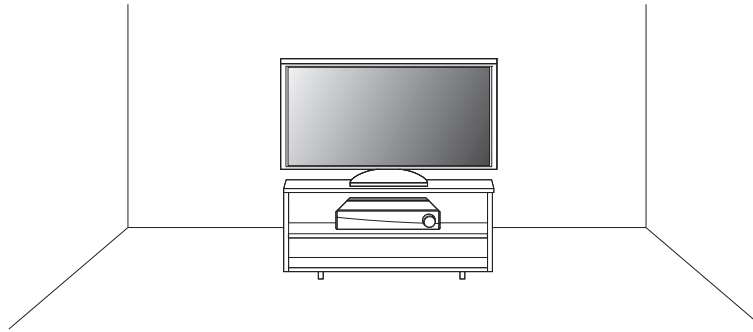
These perform playback related operations.

- Reverse-skip / Forward-skip buttons (⏮, ⏭)
 - Play/pause button (▶/⏸)
- Used in the Bluetooth pairing settings. (👉 p. 48)

Placing your HEOS AVR

The HEOS AVR is designed to add HEOS multi-room audio functionality to an external device which offers audio amplification. You should place your HEOS AVR in a convenient location near the speakers you are connecting it to.

- The HEOS AVR must be within range of your wireless network.



Connecting speakers

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 3/8 inch (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.

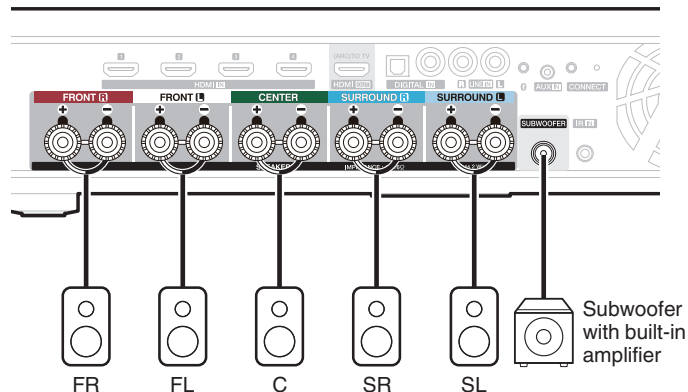


- 4 Turn the speaker terminal clockwise to tighten it.



NOTE

- Disconnect this unit's power plug from the power outlet before connecting the speakers. Also, turn off any connected powered subwoofers.
- 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.
- 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. The protection circuit may be activated if speakers with an impedance other than specified are used.



■ About the cable labels for channel identification

The channel display section for speaker terminals on the rear panel is color-coded for each channel to be identifiable.

Attach the cable label corresponding to each speaker to each speaker cable.

This makes it easy to connect the correct cable to the speaker terminals on the rear panel.

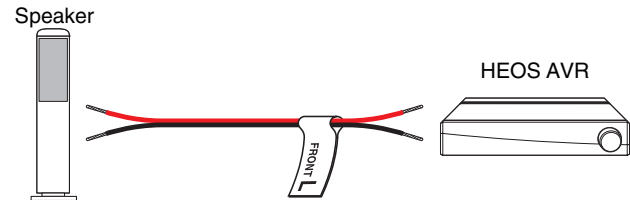
Speaker terminals	Color
FRONT R	Red
FRONT L	White
CENTER	Green
SURROUND R	Blue
SURROUND L	Light blue
SUBWOOFER	Black

Attach the cable label for each channel to its speaker cable as shown in the diagram.

Refer to the table and attach the label to each speaker cable.

Then, make connection so that the color of the speaker terminal matches that of the cable label.

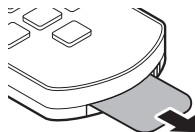
[How to attach the cable labels]



Before using the remote control unit

The remote control unit has a built-in lithium battery.

Pull out the insulation sheet before use.

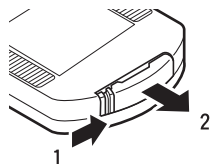


NOTE

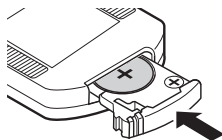
- When inserting the lithium battery, be sure to do so in the proper direction, following the ⊕ and ⊖ marks in the battery compartment.
- If the battery should have a leakage, immediately replace and dispose of the battery. In this case, there is a risk of burn when the liquid comes in contact with skins or clothes, so a great care should be taken. If the liquid accidentally comes in contact, wash with tap water and consult a doctor.
- Remove the battery from the remote control unit if it will not be in use for long periods.

■ Replacing the battery

1. Pull the groove on the left side of the battery case at the bottom of the reverse side of the remote control unit to the right.
2. In this state, pull the battery case downwards.



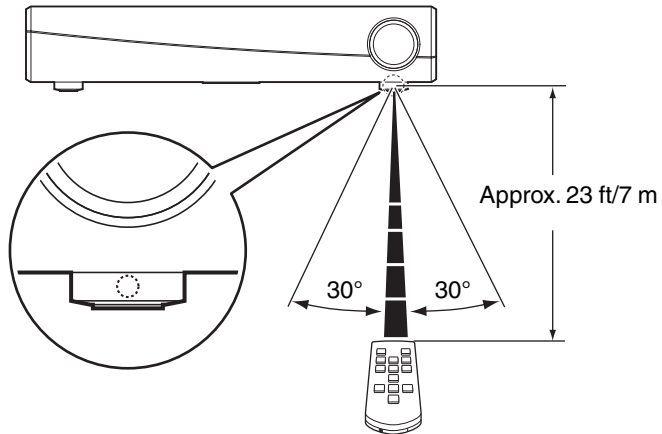
3. Insert the lithium battery (CR2025) correctly into the battery compartment as indicated.
4. Replace the battery case in the original position.



■ Operating range of the remote control unit

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

The HEOS AVR remote sensor is installed on the front right foot of the set.

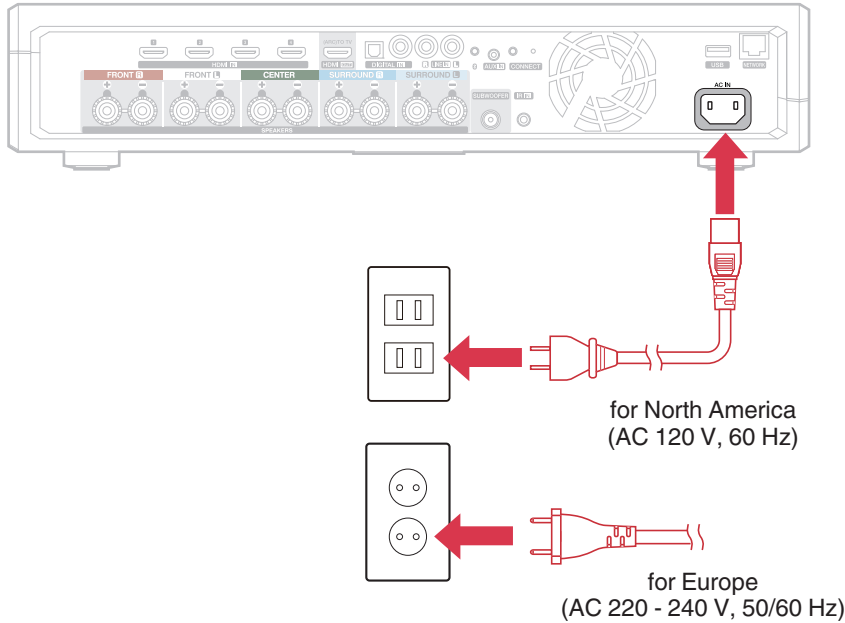


NOTE

- To ensure the remote control unit operates correctly, make sure there is nothing obstructing the remote sensor.

Powering your HEOS AVR

Connect the power cord included in the box to the back of the HEOS AVR and the plug to a wall outlet.



Getting the HEOS app

The HEOS app is the heart of the HEOS experience. Using your mobile device and the HEOS app, you can setup, browse, explore, and control your HEOS system right in the palm of your hand, from anywhere in your home.

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



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

Setting up your first HEOS AVR

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

Caution

- DO NOT connect the Ethernet cable if you are connecting your HEOS AVR to a wireless network. If you are connecting the HEOS AVR to a wired network, use an Ethernet cable to connect the HEOS AVR to your network or router.

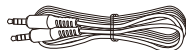
1 Make sure your mobile device is connected to your wireless network (the same network you want your HEOS AVR connected to).

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

NOTE

- If your wireless network is secure, make sure you know the password to join your network.

2 Make sure you have the included 1/8 inch (3.5 mm) setup cable handy.



3 Launch the HEOS app on your mobile device.



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

5 Follow the instructions to add the HEOS AVR to your wireless network.

The Wi-Fi settings from your mobile device will be copied to the HEOS AVR via the audio cable.

NOTE

- If you have any problems connecting your HEOS device, jump to the Troubleshooting section. (🔍 p. 60)

Adding more HEOS devices

The HEOS wireless multi-room sound system is a true multiroom audio system that automatically synchronizes audio playback between multiple HEOS devices so that the audio coming from different rooms is perfectly in sync and always sounds amazing! You can easily add up to 32 devices to your HEOS system.

Adding wired HEOS devices

Just connect the HEOS devices to your home network using an Ethernet cable and the HEOS devices will appear on your HEOS app as a new room in the “Rooms” screen.

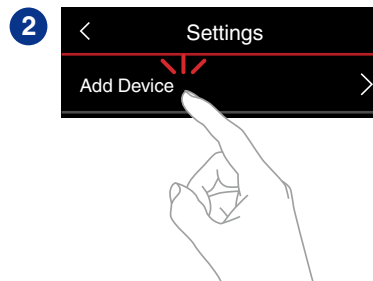
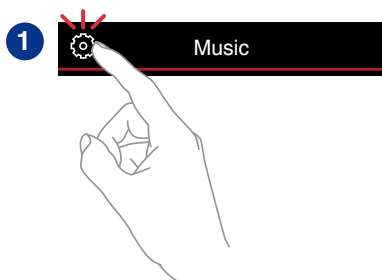
At your convenience, you can assign a name to the HEOS devices to indicate which room you have it placed in.



- Use only a shielded STP or ScTP LAN cable which is easily available at electronics stores (CAT-5 or greater recommended).
- Do not connect a Network Connector directly to the LAN port/Ethernet connector on your computer.

Adding wireless HEOS devices

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



Connecting devices

When you run HEOS AVR for the first time, "Setup Assistant" will be executed automatically.

You can start "Setup Assistant" anytime from setup menu, when you want to change the configurations. "Changing the TV connection" (👉 p. 54)

Connecting to your TV

■ HDMI connection

You can enjoy high quality audio and video playback by connecting this unit and a TV or this unit and a device such as a Blu-ray Disc recorder or game console using a HDMI cable to transmit high resolution digital video signals and Blu-ray Disc audio signals.

- ARC (Audio Return Channel) function

The TV audio can be played back through this unit using the HDMI cable used to connect this unit to the TV (*).

* The TV also needs to be compatible with the ARC function.

■ Setting the HDMI control function

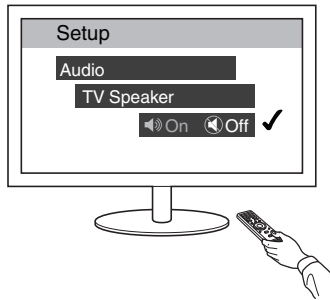
Enable the HDMI control function on the TV.

If the TV is compatible with the ARC function, enable the ARC function on the TV.

(See the TV Owner's Manual for details.)

■ Disable your television's speakers

Disable your television's built-in speakers when using HEOS AVR. Usually, this is done with an on-screen setup menu on your television. Look for an "Audio" or "Sound" sub-menu, and a "Speakers Off", "Disable Speakers", "External Speakers" or similar menu item. Some televisions have a switch on the rear panel to disable the built-in speakers.



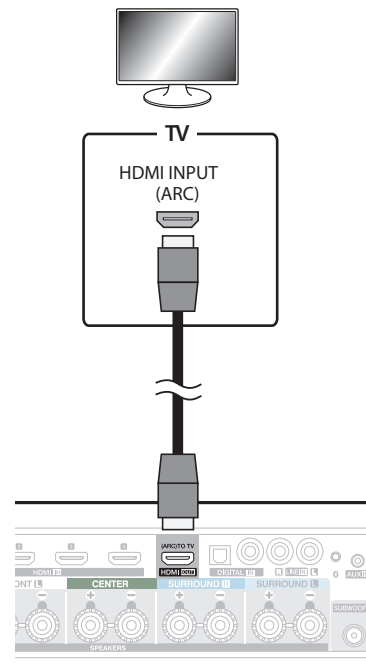
■ Playing HDMI (ARC) - Best choice

If your TV has an ARC (Audio Return Channel) HDMI connector, connect it to the HDMI output of the HEOS AVR. This will provide the best sound and several other benefits.

- 1 **Connect your TV with an ARC (Audio Return Channel) HDMI connector to the HDMI OUT (ARC) connector on your HEOS AVR using the included HDMI cable.**
- 2 **Select “TV” from the music tab.**
- 3 **Select the name of the HEOS AVR to which you connected the TV in step 1.**
- 4 **The sound from your TV can be played directly on the HEOS AVR.**

NOTE

- The TV also needs to be compatible with the ARC function. Turn the TV HDMI control function on. See the TV Owner's Manual for details.
- To change the input automatically, you can set the default TV input in the setup menu. “Adjusting the TV input” (🔍 p. 54)



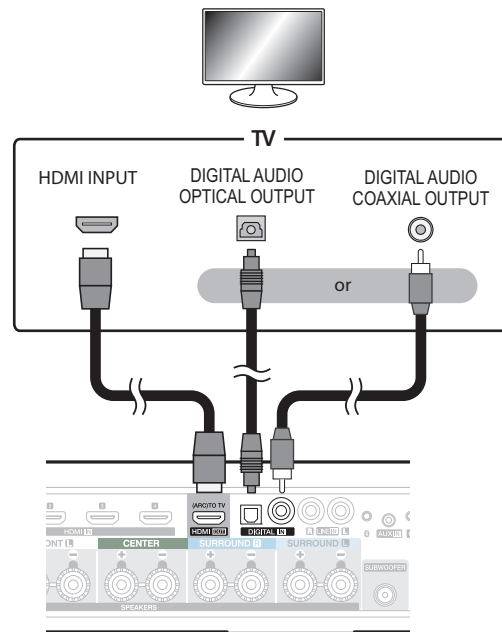
■ Playing HDMI (without ARC) - Better choice

Connect to a TV that is not compatible with the ARC (Audio Return Channel) function using the HDMI cable and audio input cable.

- 1 **Connect your TV with an HDMI connector to HDMI OUT (ARC) connector on your HEOS AVR using the included HDMI cable.**
- 2 **Connect your TV to your HEOS AVR using either an included optical cable or a coaxial cable (not included).**
- 3 **Select “TV” from the music tab.**
- 4 **Select the name of the HEOS AVR to which you connected the TV in step 1 and 2.**
- 5 **The sound from your TV can be played directly on the HEOS AVR.**

NOTE

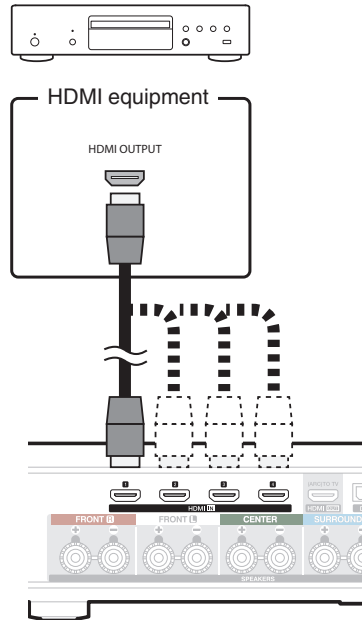
- The TV audio cannot be played back on this unit when it is only connected with the HDMI cable.
- To change the input automatically, you can set the default TV input in the setup menu. “Adjusting the TV input” (🔧 p. 54)



Connecting an other devices

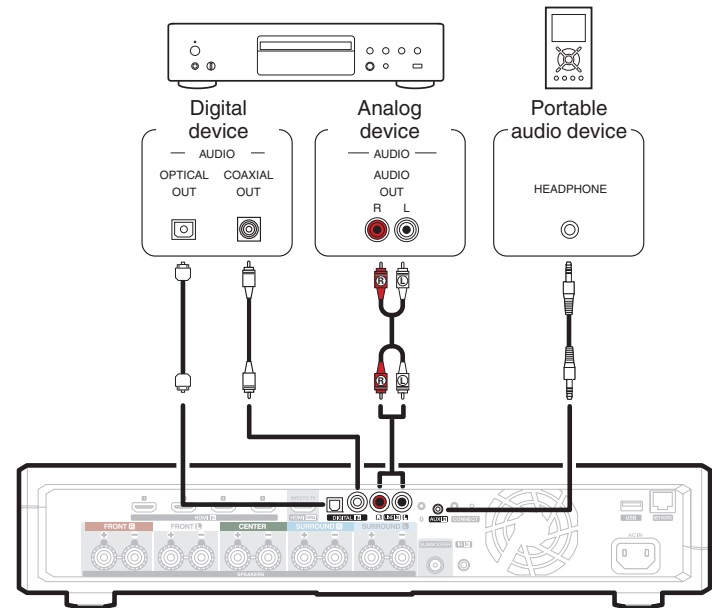
■ Connecting to your HDMI equipment

You can play back from a device that has a HDMI terminal, such as a Blu-ray disc recorder or game console.



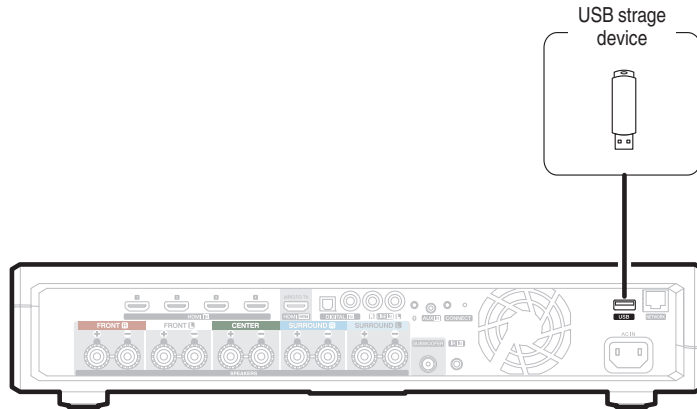
■ Connecting an audio playback device

Connect the LINE IN, AUX IN or DIGITAL IN input to an audio playback device (CD player, portable music player, etc...) using the appropriate cables.



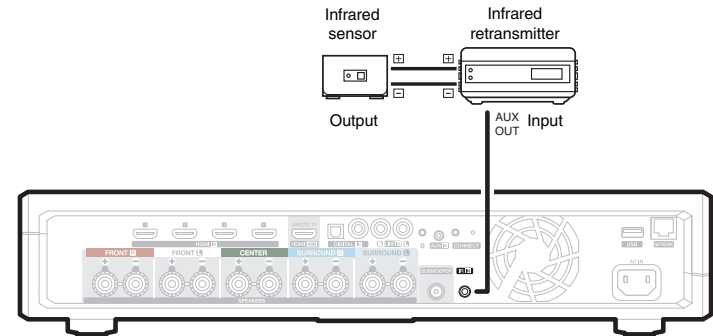
■ Connecting a USB storage device

Connect a FAT32 formatted USB storage device containing digital music files to any available USB port.




■ IR repeater

When this unit is installed in a location where the remote control signals cannot reach (installation in a cabinet etc.), it can still be controlled by the remote control by connecting a remote control receiver unit (sold separately).



Pairing a HEOS Subwoofer and Surrounds

HEOS AVR can be used as a multi-channel system by pairing with HEOS speakers or a HEOS Subwoofer.

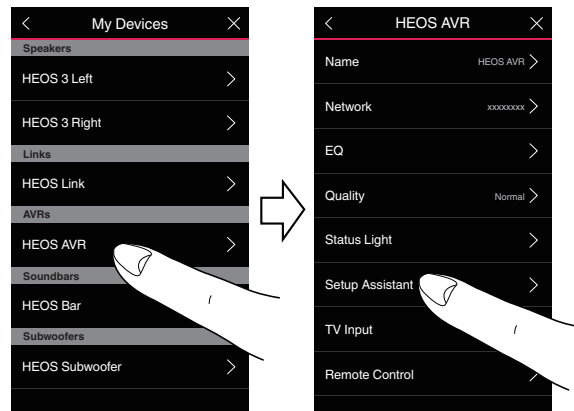
- 1** Select the **Settings**  icon located in the upper left corner of the main "Music" menu to display the **Settings** menu.
- 2** Select "HEOS AVR" from "My Devices".
- 3** Run **Setup Assistant** and add HEOS Subwoofer.
Setup assistant guides the HEOS AVR to pair

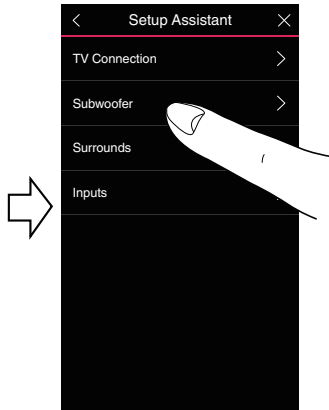
NOTE

- A HEOS Subwoofer and surround speakers need to connect your wireless network before pairing.



- It cannot be used as a front speaker or center speaker.





■ Pairing the HEOS Subwoofer

- 1 Select “Subwoofer”.
- 2 Select “HEOS Subwoofer”, then tap NEXT.


NOTE

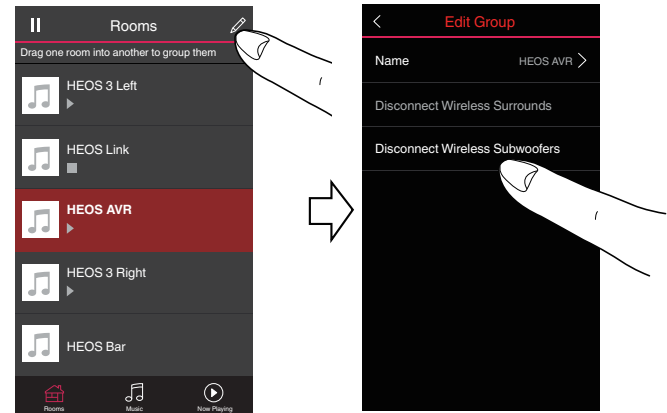
- Configure the HEOS Subwoofer settings after pairing is complete. Select “Optimized for HEOS AVR” for normal configuration. Settings are optimized for the HEOS AVR.

■ Adding surround speakers

- 1 Select “Surrounds”.
- 2 Select “Wireless HEOS Speakers” or “HEOS Amp” and tap NEXT.
Select the device that you want to add and tap NEXT.

■ Unpairing HEOS Subwoofer and Surrounds

- 1 Tap the pencil  icon in the upper right from the "Rooms" menu.
- 2 Select "HEOS AVR".
- 3 Select the device that you want to disconnect from the list.



Using your HEOS AVR

Once you have your HEOS device connected to your network and the HEOS app installed on your mobile device, it's easy to start enjoying your favorite music. You can listen to something different in every room or the same music perfectly synchronized in all rooms. It's up to you!

HEOS account

■ What is a HEOS account?

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

■ Why do I need a HEOS account?

With the HEOS account you just have to enter your music services login names and passwords one time. This allows you to easily and quickly use multiple controller apps on different devices. You just log into your HEOS account on any device and you will have access to all of your associated music services, play history and custom playlists, even if you are at a friend's house listening to music on their HEOS system.

■ Signing up for a HEOS account

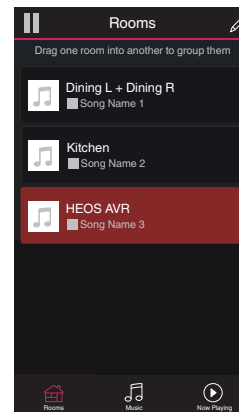
You will be instructed to signup for a HEOS account the first time you try to access any music service from the main "Music" menu of the HEOS app.

Selecting a room/device

1 Tap the "Rooms" tab, and select HEOS AVR if there are multiple HEOS devices.



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



Listening to the same music in multiple rooms

The HEOS system is a true multiroom audio system that automatically synchronizes audio playback between multiple HEOS devices so that the audio coming from different rooms is perfectly in sync and always sounds amazing!

You can easily add up to 32 HEOS devices to your HEOS system.

You can join or group up to 16 individual HEOS devices into a group of HEOS devices that function as if they were a single HEOS device.

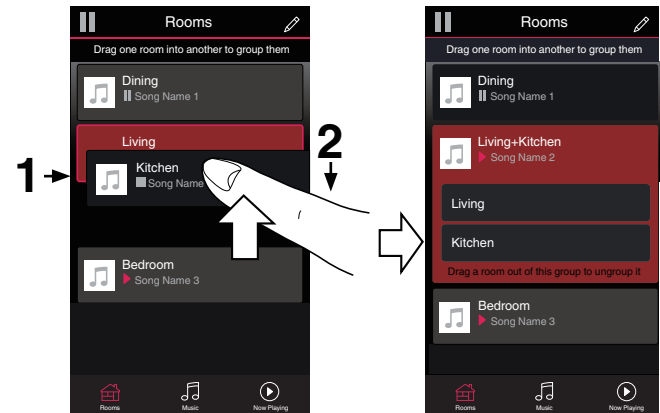
■ Grouping rooms

- 1 Press and hold your finger on room that is not playing music.**
- 2 Drag it into the room that is playing music (indicated by the red outline) 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.



- When audio from the device connected to this unit is played back in a group, only 2-channel PCM input from the HDMI, digital or analog terminals can be played back.
- Grouping cannot be used when this unit is playing TV audio or external input audio. Enable “TV Sound Grouping” to use grouping. (🔗 p. 54)



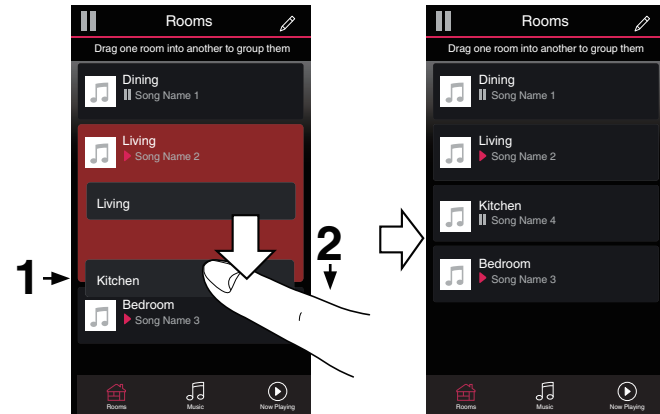
■ Ungrouping rooms

- 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.**

Music will stop playing in the room you dragged out of the group but will continue playing in any remaining rooms.

NOTE

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



■ Grouping all rooms (party mode)

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

1 Place two fingers on the screen over the list of rooms.

2 Quickly pinch your two fingers together and release.

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



■ Ungrouping all rooms

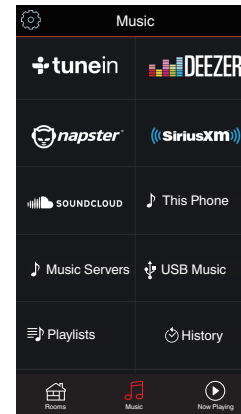
You can easily ungroup all of your rooms and exit Party Mode by using a “spread” gesture.

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



Selecting the music track or station from music sources

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



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

2 Browse the music to play.

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



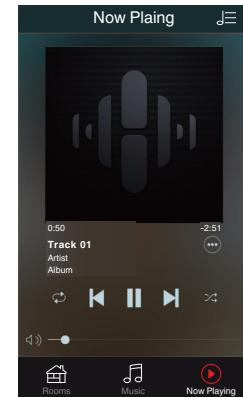
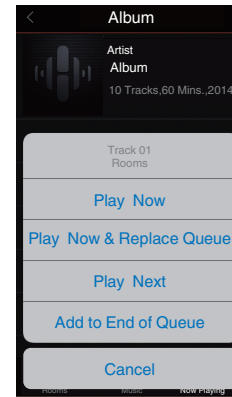
- When you select a music track to play you will be asked how you want to queue up your music.

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






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

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






Rearranging the now playing queue

Once you have songs lined up in your queue, you might want to rearrange the order or remove some songs:

- 1 Tap the “Now Playing” tab.
- 2 Tap the Queue  icon in the upper right corner of the screen.
- 3 Tap the Pencil  icon to enter Edit mode.
- 4 Rearrange the order of your queue by dragging the list  icon (on the right side of each track row) up or down.



Deleting songs from the play queue

You can remove songs one at a time from the Now Playing Queue:

- 1 Tap the “Now Playing” tab.
- 2 Tap the Queue  icon in the upper right corner of the screen.
- 3 Tap the Pencil  icon to enter Edit mode.
- 4 Tap the track(s) that you want to delete.
- 5 Tap the Delete  icon to delete all of the selected tracks from the play queue.




Deleting all songs from the play queue

You can remove all of the songs from the Now Playing Queue:

- 1 Tap the “Now Playing” tab.
- 2 Tap the Queue  icon in the upper right corner of the screen.
- 3 Tap the Delete  icon to confirm that you want to delete all songs from the queue.

Saving playlists

You can save the Now Playing Queue as a HEOS Playlist that you can recall later. The new playlist will be available from the Playlists button on the “Music” tab on every controller app connected to your HEOS system.


- 1 Tap the “Now Playing” tab.
- 2 Tap the Queue  icon in the upper right corner of the screen.
- 3 Tap on the Save  icon.
- 4 Enter a name for your Playlist and tap the Save  icon.

Quick Select function

Input source, volume level and surround mode settings can be registered to the Quick select buttons (1 - 6).

- To register the current setting, point the remote control unit at this unit and then press and hold the Quick Select button you want to register (1-6) for 3 seconds.**



- The status LED on the main unit flashes once when registration is complete.
- You can also register using the HEOS app.
- You can change the Quick Select name of the HEOS app. ( p. 55)

[Default settings]

Button/Default Name	Input Source	Volume	Sound Mode
Quick Select 1	HDMI 1	35	AUTO
Quick Select 2	HDMI 2	35	AUTO
Quick Select 3	HDMI 3	35	AUTO
Quick Select 4	HDMI 4	35	AUTO
Quick Select 5	HDMI ARC	35	AUTO
Quick Select 6	OPT	35	AUTO

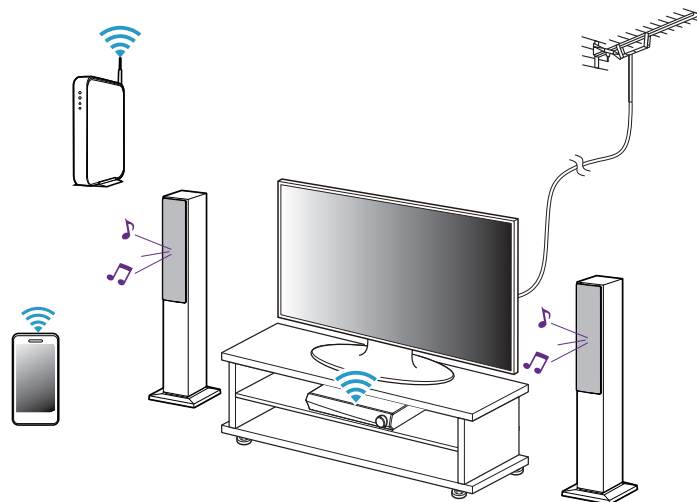
Watching TV

1 Turn on the TV.

Automatically HEOS AVR changes the input to TV.



- If you can not hear the audio on HEOS AVR, please tap the "Inputs" in Music tab, then select the input which you want to enjoy.
- To change the input automatically, you can set the default TV input in the setup menu. "Adjusting the TV input" (🔍 p. 54)



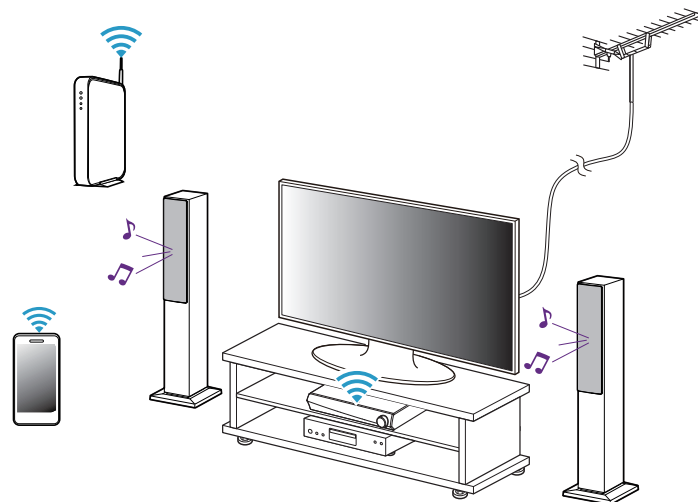
Watching other device

- 1 Turn on the TV.
- 2 Turn on the power of the HDMI device, such as a Blu-ray player or game console.

Automatically the input of the HEOS AVR switches to the HDMI device.



- If HEOS AVR does not switch the input automatically, please tap the "Inputs" in Music tab, then select the input which you want to enjoy.
- Set the HDMI control on the TV to On to enable automatic switching of the HEOS AVR input. (🔧 p. 22)

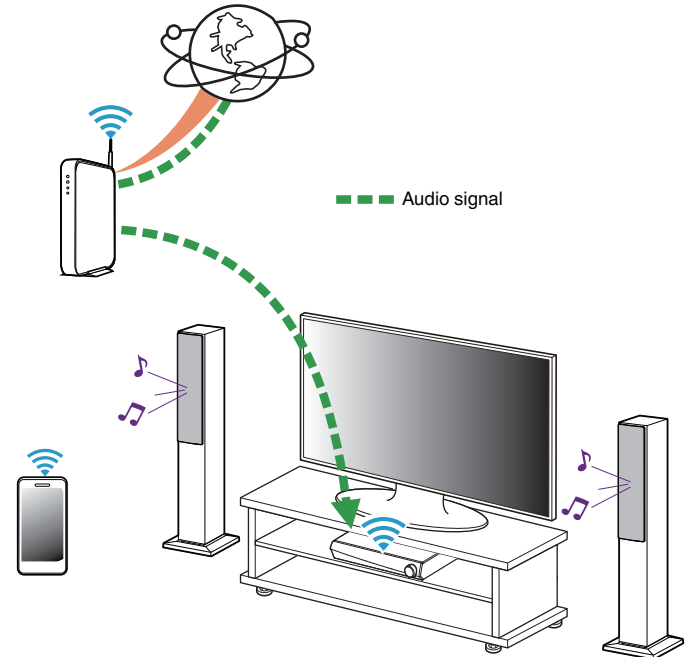


Listening to radio

The HEOS system includes access to more than 100,000 free internet radio streams from all corners of the globe via the TuneIn radio service. Just select the TuneIn logo from the main “Music” menu and browse among the 100,000 stations neatly organized into popular categories and select a station that appeals to your mood.

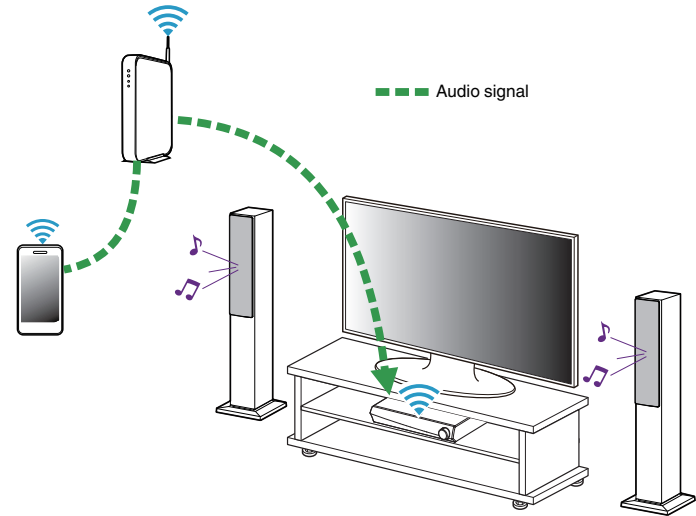
NOTE

- If you have a TuneIn account, you can sign into the TuneIn service under “Settings” - “Music Sources” - TuneIn, and access all of your “My Favorites” TuneIn stations.



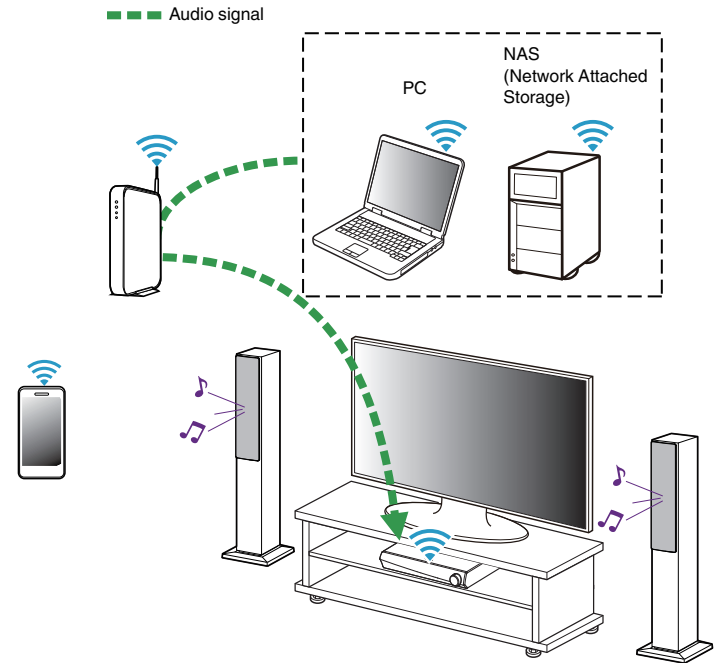
Playing music stored on your mobile device

- 1 Tap the “Music” tab.
- 2 Select “This iPhone/iPod/iPad/Phone”.
- 3 Browse the local music on your phone and select something to play.



Playing music from your networked PC or NAS

- 1 Select “Music Servers” from the “Music” tab.
- 2 Select the name of your networked PC or NAS (Network Attached Storage) server.
- 3 Browse the music on your PC/NAS and select something to play.



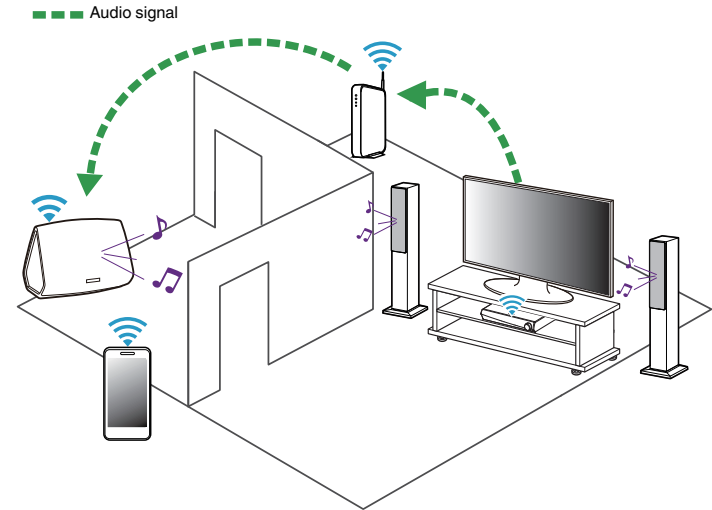
Streaming an external audio device to any HEOS device

The sound from the audio device can be played directly on the selected device or digitized and sent over your network to other HEOS devices.

- 1** Connect an external audio device to the digital optical, analog RCA stereo or analog 1/8 inch (3.5mm) stereo inputs on the back of the HEOS AVR.
- 2** Select “Inputs” from the “Music” tab.
- 3** Select the name of the HEOS AVR and which input to which you connected the audio device in step 1.
- 4** Initiate playback on the audio device.

NOTE

- When a stereo audio cable is connected to AUX IN, the source automatically switches to Inputs.

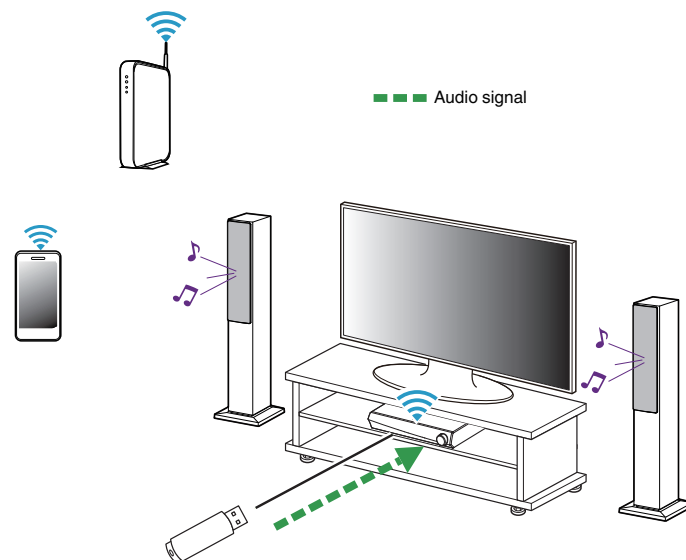


Playing music from a USB device

- 1** Insert a FAT32 formatted USB device into the USB port on the back of the HEOS AVR.
- 2** Select “USB Music” from the “Music” tab.
- 3** Select the name of your HEOS device.
- 4** Browse the music on your USB device and select something to play.

NOTE

- It may take several minutes for the name of your HEOS device to appear in the “USB Music” list if you have a large number of files on your USB device.
- It is not possible to connect and use a computer via the USB port of this unit using a USB cable.



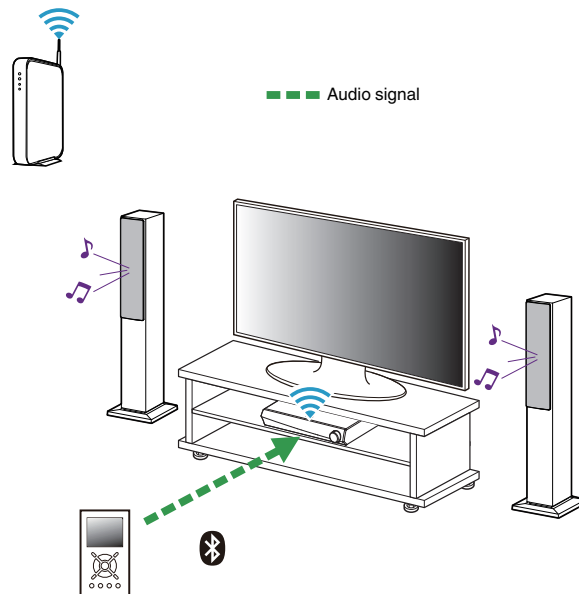
Playing music from Bluetooth device

■ Pairing the HEOS device with your Bluetooth devices

- 1 Activate the Bluetooth setting on your mobile device.
- 2 Press and hold the Play/Pause button located on the remote control unit for 3 seconds and release the button when you see a pattern of two green flashes on the status LED.
- 3 Select “HEOS AVR” from the list of available Bluetooth devices.
In a few seconds your mobile device will indicate that it is connected to your HEOS AVR.
- 4 Play music using any app on your device. The sound will now play from the HEOS AVR.

NOTE

- Disconnect and reconnect Bluetooth connections from your Bluetooth device.
- You can also pair devices by pressing and holding the Bluetooth button on the back of the HEOS AVR.



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. For more information about which services are available in your area please visit <http://www.HEOSbyDenon.com>


■ Adding a music service

Once you've setup your HEOS account, you can add supported music services to your HEOS system by tapping on the music service logo in the "Music" tab.

Follow the instructions on the screen to add your username and password for the selected music service. You only have to enter your account information once as the HEOS account service will securely remember your login information so you don't have to enter it each time you want to play music from the music service.


Additional music services may be available under "Settings" - "Music Sources" - "Online Music".

■ Changing music service settings

- 1 Tap the "Music" tab.
- 2 Select the Settings  icon in the upper left corner of the screen.
- 3 Select "Music Sources".
- 4 Select "Online Music".
- 5 Select the name of the online music service you want to edit.
- 6 Sign out, then sign in again to associate your username and password with your HEOS account.
- 7 Select "Hide for Now" to prevent the service logo from appearing on the main "Music" menu.

Managing inputs

If you connected external audio source components to any of your HEOS devices inputs, you can rename the default input names to describe the actual source or hide any inputs that are not being used.

- 1** Select the Settings  icon located in the upper left corner of the main “Music” menu to display the Settings menu.
- 2** Select “Music Sources”.
- 3** Select “Inputs”.
- 4** Select the HEOS devices which you connect your external audio source device to.

■ Changing the name of the inputs


- 1** Select the name of the input you want to edit.
- 2** Select “Name”.
- 3** Select or enter a new name to describe the source that you connected.
- 4** Select the Save button to save your changes.

■ Hiding an input

- 1** Select the name of the input you want to edit.
- 2** Toggle “Hide Input” to ON to prevent this input from appearing under the Inputs tile on the main “Music” menu.

Managing your phone

Your smartphone or tablet can be hidden if it does not need to be in the “Music Sources” menu.

- 1** Select the **Settings**  icon located in the upper left corner of the main “Music” menu to display the Settings menu.
- 2** Select “Music Sources”.
- 3** Select “This iPhone/iPod/iPad/Phone”.
- 4** Toggle “This iPhone/iPod/iPad/Phone” to OFF to prevent the service logo from appearing on the main “Music” menu.

Using the favorite

HEOS uses a "HEOS Favorites" to line up station you want to start play quickly the favorite stations. Station can be selected from online music sources such as "Radio" or "Station" type streams. "HEOS Favorites" will display a list of the stations of various services.


■ Adding to HEOS favorite

Select a station of an online music source. When the action menu screen is displayed, select "Add Station to HEOS Favorites".

NOTE


- This can also be done by selecting "Add Station to HEOS Favorites" from the station menu of the station being played.

■ Deleting station from the HEOS favorite


- 1 Tap the "Music" tab.
- 2 Select "Favorites".
- 3 Tap the Pencil  icon to enter Edit mode.
- 4 Tap the "Delete" that you want to delete station.

Making adjustments

You can adjust specific settings for each of your HEOS device in your system:

- 1** Select the **Settings**  icon located in the upper left corner of the main “Music” menu to display the **Settings** menu.
- 2** Select “My Devices” to display a list of your HEOS devices.
- 3** Select the HEOS device you want to adjust.

Adjusting the audio quality

Selects the transcoding option for rebroadcasting audio from one HEOS device to another HEOS device (or group of devices) across the network. When set to high bit rate audio sources originating from the first device (such as Analog input, WAV, FLAC and PCM) will be transcoded to ensure the highest level of reliability for the audio stream. ( p. 46)

- 1** Select “Quality”.
- 2** Select “Normal” (default) or “High”.



- If you have selected High and you experience audio dropouts when streaming sources from one device to other devices, please select Normal (default).

Changing the TV connection

"Setup Assistant" can be re-executed when changing the TV connection.

1 Select "Setup Assistant".

2 Turn on your TV.

Select which input you want to use to connect your TV.

Adjusting the TV input

It will be able to automatically switch to TV mode once the TV is turned on.

1 Select "TV Input".

Default Input

Select the input to use when the TV tile is selected from the Music Tab.

Auto-Play

Enabled to automatically switch to the default input when a signal is detected on the default input line

TV Sound Grouping

Set when you want to play TV audio or external input audio from this unit through a different HEOS device.

1 Select "TV Sound Grouping".

Enable

Enables grouping.

Audio Delay

Sets the delay for the audio.

NOTE

- The audio may cut out if the amount of delay is too short. Lengthen the amount of delay if the audio cuts out.

Changing the name of Quick Select

- 1** Select "Quick Select Names".
- 2** Select or enter a new name to describe the registered Quick Select.
- 3** Tap the Save button to save your changes.

Adjusting the status light brightness

- 1** Select "Status Light".
Adjust the brightness up or down or set the slider to the OFF position to completely disable the status light.

Updating your system

HEOS has the ability to add enhancements and updated functionality via your high speed Internet connection. Follow the instructions on the screen to update the HEOS device and/or your controller App.

- 1** Select the **Settings**  icon located in the upper left corner of the main “Music” menu to display the Settings menu.

- 2** Select “Software Update”.

Check for Update

Follow the instructions on screen to install any available updates to your HEOS system.


Auto-Update

ON
(Default): Valid updates are performed automatically.

OFF: You will be notified of valid updates on the HEOS app.

Advanced features

There are a few advanced features of the HEOS system that you may want to explore once you become familiar with the basic operations. You can access the advanced features of the HEOS system by following these steps:

- 1** Select the **Settings**  icon located in the upper left corner of the main “Music” menu to display the **Settings** menu.
- 2** Select “**Advanced Settings**” to display a list the available settings.

Wireless performance

You can check the wireless connection status of your HEOS device.

Quality

Excellent / Good / Poor

NOTE

- If the quality level of your HEOS device is “Poor”, make sure your HEOS devices are not located near other electronic devices that could interfere with it’s wireless connectivity (like microwave ovens, cordless phones, TVs, etc...)

Signal

Excellent / Good / Poor

NOTE

- If the signal level of your HEOS device is “Poor”, make sure your HEOS devices are within range of your wireless network.

Power management

Power modes

■ Quick Start Mode

HEOS device automatically enters "Quick Start Mode" to save power in the following cases. This unit will automatically resume to full power whenever the device is selected and playing music.

The status LED dims when the mode is switched to Quick Start Mode.

□ Ethernet

After around 20 minutes of no operation and no network access after playing music via Ethernet.

□ Wi-Fi

After around 20 minutes of no operation and no network access after playing music via Wi-Fi.

□ USB

After around 20 minutes of no operation and no network access after playing music from a USB memory device.

□ Bluetooth

After the Bluetooth connection is disconnected and there is around 20 minutes of no operation and no network access after playing music via Bluetooth.

□ AUX IN

After around 20 minutes of no operation after AUX cable is disconnected.

□ OPT IN

After around 20 minutes of no operation after optical device is put into standby.

□ COAX IN

After around 20 minutes of no operation after coaxial device is put into standby.

□ HDMI IN

Play the HDMI device, such as a Blu-ray player, connected to this unit. Around 20 minutes after HDMI device and TV are put into standby.

□ HDMI OUT (ARC)

Connect this unit and the ARC compatible TV with HDMI cable and play TV. Around 20 minutes after TV is put into standby.



- Press the Power button on the remote control unit to switch to Quick Start Mode.

■ Deep Standby

The device also has the ability to automatically enter “Deep Standby” whenever the wired and wireless network connections are removed for more than 60 minutes in Quick Start Mode. Status LED will turn off during Deep Standby.

To “wake” a HEOS device from Deep Standby, you must press the power button on the remote control unit which will immediately turn on status LED.

The Device may need to “find” the network before it can operate properly.

NOTE

- Please note that the HEOS cannot be operated as intended when in Deep Standby as there is no network connection.



- Press and hold the Power button on the remote control unit for more than 3 seconds to switch to Deep Standby.

■ Off

To completely turn off the power to the device you must remove the mains plug from the power outlet.

Basic troubleshooting

My HEOS device won't connect to my network using the audio cable

Solution	Refer to Page
<ul style="list-style-type: none"> Make sure your mobile device is connected to your wireless network before setting up your device. 	<u>20</u>
<ul style="list-style-type: none"> Alternatively, you can connect your device to your network router using the included Ethernet cable. Once connected via Ethernet, the HEOS App should recognize the device and you can manually move it to your wireless network using Settings/My Devices/Device_Name/Advanced/Network Settings. 	<u>21</u>

Cannot pair a Bluetooth mobile device with the HEOS device

Solution	Refer to Page
<ul style="list-style-type: none"> The connection from the Bluetooth mobile device is malfunctioning. Power cycle the mobile device, remove the pairing information and re-pair the HEOS AVR to the mobile device. 	—

Cannot hear Bluetooth music

Solution	Refer to Page
<ul style="list-style-type: none"> Your Bluetooth mobile device is not paired with HEOS device. Re-pair the HEOS device to the mobile device. 	<u>48</u>
<ul style="list-style-type: none"> The HEOS device is Wi-Fi mode or Aux-in mode etc. Pair and connect Bluetooth device to HEOS device. 	—
<ul style="list-style-type: none"> The Bluetooth mobile device is connected to another audio device. Make sure your Bluetooth device is connected to HEOS device. 	—
<ul style="list-style-type: none"> The volume on Bluetooth mobile device is too low. Check the volume on the Bluetooth mobile device. Check the volume on the HEOS device. 	—

My HEOS device turns off and the status LED flashes in red

Solution	Refer to Page
<ul style="list-style-type: none"> The protection circuit has been activated due to a rise in temperature within your HEOS device. Turn the power off, wait about an hour until this device cools down sufficiently, and then turn the power on again. 	–
<ul style="list-style-type: none"> 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 device. 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. 	<u>14</u>

Music cuts out or delays sometimes

Solution	Refer to Page
<ul style="list-style-type: none"> Make sure your Internet connection is operating correctly. If you are sharing your network with other users or devices, they may be using most of your bandwidth (especially if they are streaming video). 	<u>6</u>
<ul style="list-style-type: none"> Make sure your HEOS devices are within range of your wireless network. 	<u>57</u>
<ul style="list-style-type: none"> Make sure your HEOS devices are not located near other electronic devices that could interfere with it's wireless connectivity (like microwave ovens, cordless phones, TVs, etc...). 	<u>57</u>

I hear a delay when using the external input with my TV

Solution	Refer to Page
<ul style="list-style-type: none">• If you are connecting the External input with your cable or satellite box for enjoying TV audio through multiple HEOS devices, you may hear a delay between when you see someone speak and when you hear the audio. This is because the HEOS system must buffer the audio before it sends it out to the HEOS devices so that it arrives at all devices at the same time.• You can avoid this delay by listening only to the device which is directly connected to the set top box.	— —

I hear distortion when using the AUX input

Solution	Refer to Page
<ul style="list-style-type: none"> The analog output signals from some sources can be fairly strong. If the input level of the source device is turned up high, it could overload the inputs of the HEOS device. This is unlikely to cause damage, but can cause distorted sound. Initially, set the volume of the source to a medium – low level, then turn it up as needed. If you hear distortion, turn down the device's volume control. 	—

Connecting to a WPS network

Solution	Refer to Page
<ul style="list-style-type: none"> If your wireless router support WPS (Wi-Fi Protected Setup™) your HEOS wireless device can optionally connect to your network using the “Push Button” method by following these steps: Wi-Fi Protected Setup™ is trademarks of Wi-Fi Alliance. <ol style="list-style-type: none"> Press the WPS button on your router. Within 2 minutes, press and hold the Connect button on the rear panel of the HEOS device for 3 seconds. The LED on the front of the device will flash green for several seconds as it connects to your WPS router. When the connection is complete, the LED on the front of the device will turn solid blue. 	6

Resetting your HEOS device

Solution	Refer to Page
<ul style="list-style-type: none"> Resetting your HEOS device will clear out the wireless network info, EQ, and name but retain it's current software. You will have to use Settings - Add Device to reconnect the HEOS device to your home network before it can be used. To reset your HEOS device, press and hold the Connect and Bluetooth buttons located on the back of the HEOS device for 5 seconds until the front LED begins to flash amber. 	-

Restoring the HEOS device to factory defaults

Solution	Refer to Page
<ul style="list-style-type: none"> Restoring the HEOS device to its factory defaults will clear all of the settings and restore the original software which was installed at the factory. <p>Caution</p> <ul style="list-style-type: none"> All settings will be erased and the software will likely be downgraded! <p>To restore your HEOS device to the factory defaults, unplug the power cable from the power outlet. Press and hold the Bluetooth button located on the back of the HEOS device, reconnect the power cable, and hold it in until the front LED begins to flash amber.</p>	-

* For further information, please visit <http://www.HEOSbyDenon.com>

Contact Denon

For U.S. & Canada only:

If you need further assistance with your HEOS product, please contact HEOS Customer Support Services below:

Website: www.HEOSbyDenon.com/Support

Email: Support@HEOSbyDenon.com

Live Chat: www.HEOSbyDenon.com/LiveChat


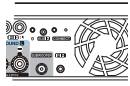

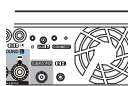






Telephone: Toll Free (855) 499 2820


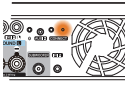






(M-F 10:00AM to 10:00PM EST / Sat 12:00PM to 8:00PM EST)


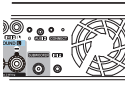

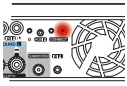
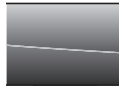


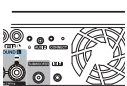


For the other region:









If you need additional help in solving problems, please contact Denon customer service in your area or visit <http://www.HEOSbyDenon.com>


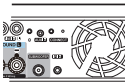




Status LED table


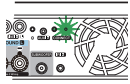

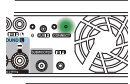






Device Operation	Description	Front LED Action	Rear LED Action
Off	No AC power or Deep Standby	 (off)	 (off)
Plug in	Booting	 (blink)	 (off)
On	Ready-Configured and connected to your network	 (solid)	 (off)
On	Not Connected to your network	 (solid)	 (solid)
Change Network	Connecting to your network	 (blink)	 (off)







Device Operation	Description	Front LED Action	Rear LED Action
Setup	Not connected	 (solid)	 (solid)
	Connect button was pressed	 (blink)	 (blink)
	Cable connection is OK	 (solid)	 (solid)
	Connecting to your network	 (blink)	 (off)


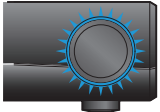
Device Operation	Description	Front LED Action	Rear LED Action
Setup	Configured and connected to your network	 (solid)	 (off)
	Error	 (solid)	 (solid)
Update	Updating	 (blink)	 (blink)
	Rebooting	 (blink)	 (off)
	Ready-Configured and connected to your network	 (solid)	 (off)

Device Operation	Description	Front LED Action	Rear LED Action
Reset	Soft reset - Clear user settings	 (fast blink)	 (solid)
	Hard reset - Factory restore	 (blink)	 (solid)
	Rebooting	 (blink)	 (off)
	Ready-Not Configured	 (solid)	 (solid)

Device Operation	Description	Front LED Action	Rear LED Action
Errors	Firmware Error	 <p>(slow blink (NOT fade))</p>	 <p>(off)</p>
	Hardware Error	 <p>(fast blink)</p>	 <p>(off)</p>
	Network Error	 <p>(solid)</p>	 <p>(solid)</p>

Device Operation	Description	Front LED Action	Rear LED Action
WPS	a WPS session is active	 (fast blink)	 (fast blink)
	WPS connected	 (for 3 sec. solid)	 (solid)
	WPS time-out	 (for 3 sec. solid)	 (solid)
Power Management	Quick Start Mode	 (dimmed solid)	 (off)
	Deep Standby	 (off)	 (off)

Device Operation	Description	Front LED Action	Rear LED Action
Bluetooth	Bluetooth pairing is active	 (two blinks)	 (two blinks)
	Connected (No Network)	 (one blink)	 (off)
	Bluetooth pairing is failed	 (for 3sec. solid)	 (for 3sec. solid)

Device Operation	Description	LED Action
Volume Change		 (solid)
Mute		 (slow blink)

Supported file types and codecs

Frequency	Sample Rate	File Extension	Codec	Bit Rates
32/44.1/48 88.2/96/176.4 192 kHz	16/24 bit	wav	PCM	---
32 kHz 44.1 kHz 48 kHz	16 bit	mp3	MPEG-1 Audio Layer 3 CBR/VBR	32 - 320 kbps
32 kHz 44.1 kHz 48 kHz	16 bit	m4a aac	AAC-LC	48 - 320 kbps
32 kHz 44.1 kHz 48 kHz	16 bit	wma	wma9 CBR	CBR:48 - 192 kbps
44.1/48 88.2/96/176.4 192 kHz	16/24 bit	flac	flac	---
44.1/48 88.2/96/176.4 192 kHz	16/24 bit	m4a	ALAC	---
2.8/5.6 MHz	1 bit	dff dsf	DSDIFF DSF	---

NOTE

- Files protected by DRM such as Apple's Fairplay DRM, are not supported.
- The ALAC decoder is distributed under the Apache License, Version 2.0 (<http://www.apache.org/licenses/LICENSE-2.0>)

Supported audio formats (Coaxial/Optical)

2-channel Linear PCM:2-channel, 32 kHz – 192 kHz, 16/20/24 bit

Specifications

■ Audio section

Power amplifier Rated output:

Front:

100 W + 100 W (4 Ω /ohms, 20 Hz – 20 kHz with 0.1 % T.H.D.)

65 W + 65 W (6 Ω /ohms, 20 Hz – 20 kHz with 0.1 % T.H.D.)

50 W + 50 W (8 Ω /ohms, 20 Hz – 20 kHz with 0.05 % T.H.D.)

Center:

100 W (4 Ω /ohms, 20 Hz – 20 kHz with 0.1 % T.H.D.)

65 W (6 Ω /ohms, 20 Hz – 20 kHz with 0.1 % T.H.D.)

50 W (8 Ω /ohms, 20 Hz – 20 kHz with 0.05 % T.H.D.)

Surround:

100 W + 100 W (4 Ω /ohms, 20 Hz – 20 kHz with 0.1 % T.H.D.)

65 W + 65 W (6 Ω /ohms, 20 Hz – 20 kHz with 0.1 % T.H.D.)

50 W + 50 W (8 Ω /ohms, 20 Hz – 20 kHz with 0.05 % T.H.D.)

Output connectors:

4 – 16 Ω /ohms

S/N ratio:

ANALOG IN: 96 dB(IHF–A weighted, Direct mode)

Frequency response:

10 Hz to 40 kHz: +1, -3 dB

■ Wireless LAN section

Network type:

Conforming to IEEE 802.11a/b/g/n/ac

Used frequency range:

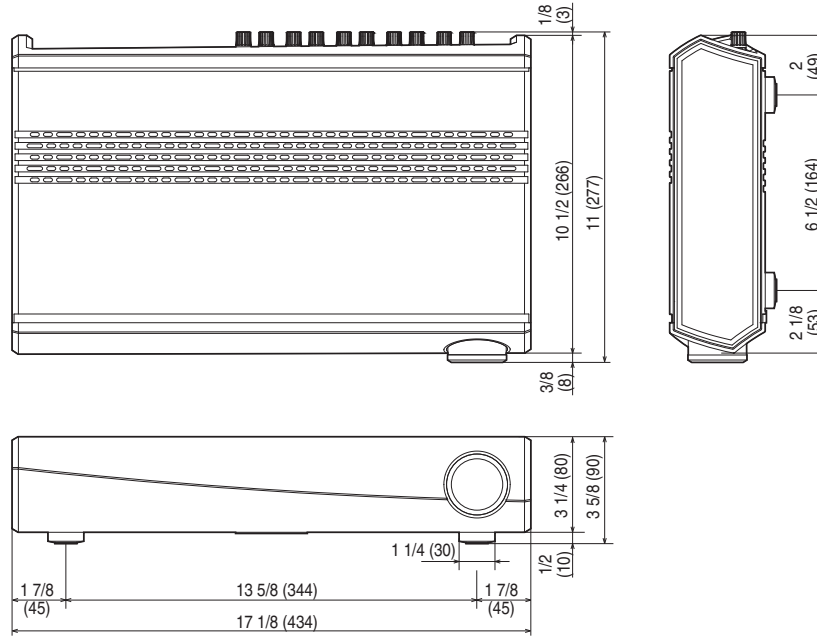
2.4 GHz, 5 GHz

■ General

Operating temperature:	41 °F - 95 °F (5 °C - 35 °C)
Power supply:	AC 120 V, 60 Hz (for North America) AC 220 - 240 V, 50/60 Hz (for Europe)
Power consumption:	110 W
Power consumption in Quick Start Mode: *	4.5 W (Wi-Fi) 4.2 W (Ethernet) 4.8 W (USB) 4.3 W (Bluetooth) 4.6 W (HDMI IN) 4.5 W (HDMI OUT(ARC))
Power consumption in Deep Standby Mode: *	0.4 W

*Cable to AUX IN must be disconnected to enter Quick Start Mode and Deep Standby Mode.

■ Dimensions (Unit : in. (mm))



■ Weight : 11 lbs (5.0 kg)

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

Information

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