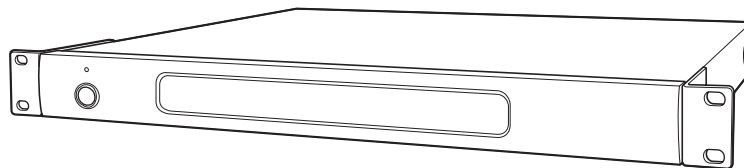




Owner's Manual

HEOS Super Link



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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 Super Link is part of the HEOS 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 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 Super Link.



Before your begin

NOTE

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

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 should have a working wireless (Wi-Fi) network in your home. 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 7.0 or later
- iPhone® 4 or newer
- iPad® 2 or newer
- iPod touch® (5th generation) or newer



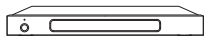
Android Minimum Requirements

- Android OS version 4.0 or later
- All resolutions



Getting to know your HEOS Super Link

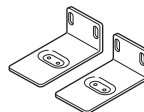
Unpack your HEOS Super Link from the box and verify that the following items are included:



HEOS Super Link



Ethernet cable



Rack mount brackets



Thank you note



Quick Start Guide



Safety Instructions



Warranty
(North America user only)



Extended Protection Plan
(North America user only)



(for North America)



(for Europe)



(for UK)



(for Australia)

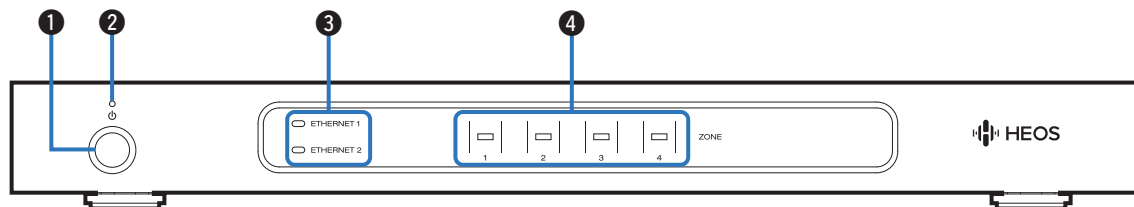
Power cords

NOTE

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



■ Front panel



❶ Power operation button (⏻)

Used to enter Quick Start Mode or Deep Standby and return from them.

❷ Power indicator

This is lit as follows according to the power status: (🔗 p. 54)

- White: Power on
- Off: Deep Standby
- Red: When all Zone enter Quick Start Mode

❸ Network indicators

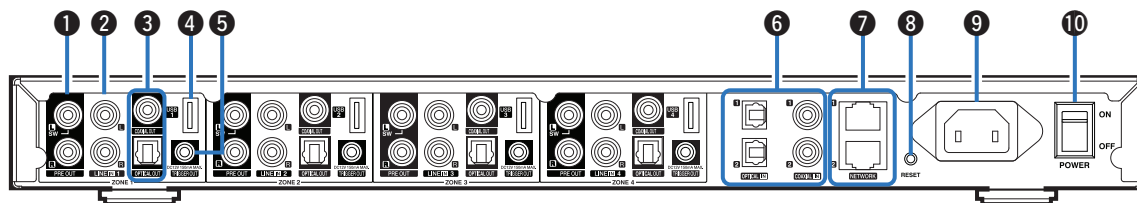
Flashes green to indicate network activity. (🔗 p. 55)

❹ Zone indicators

Please refer to the “Status indicator Table”. (🔗 p. 56)



■ Back panel



❶ PRE OUT connectors

Used to connect external amplifiers. (🔗 p. 14)

❷ LINE IN connectors

Used to connect devices equipped with analog audio outputs. (🔗 p. 16)

❸ Digital Output (OPTICAL OUT/COAXIAL OUT) connectors

Used to connect external amplifiers. (🔗 p. 14)

❹ USB port

Used to connect USB storage devices. (🔗 p. 15)

❺ TRIGGER OUT jack

Used to connect devices equipped with a trigger function. (🔗 p. 15)

❻ Digital Input (OPTICAL IN/COAXIAL IN) connectors

Used to connect devices equipped with digital audio outputs. (🔗 p. 16)

❼ NETWORK connectors

Used to connect this unit to a wired Ethernet network. (🔗 p. 19)

❽ RESET button

Various settings are reset to the factory default values. (🔗 p. 52)

❾ AC inlet

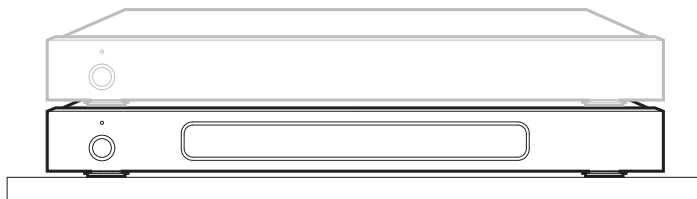
Used to connect the power cord. (🔗 p. 18)

❿ Master Power Switch (POWER)



Placing your HEOS Super Link

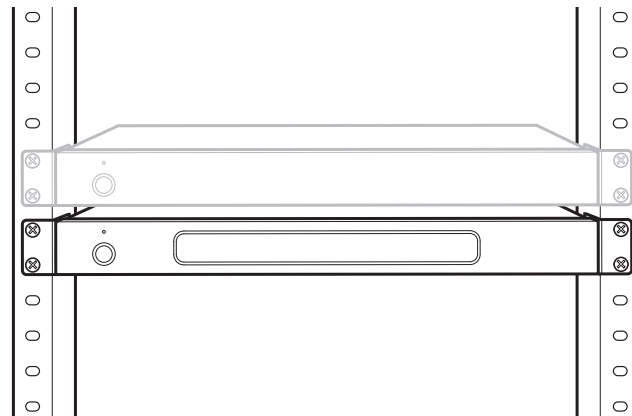
The HEOS Super Link is designed to add HEOS multi-room audio functionality to an external device which offers audio amplification. You should place your HEOS Super Link in a convenient location near the amplification device you are connecting it to.



■ Attaching the rack mount brackets

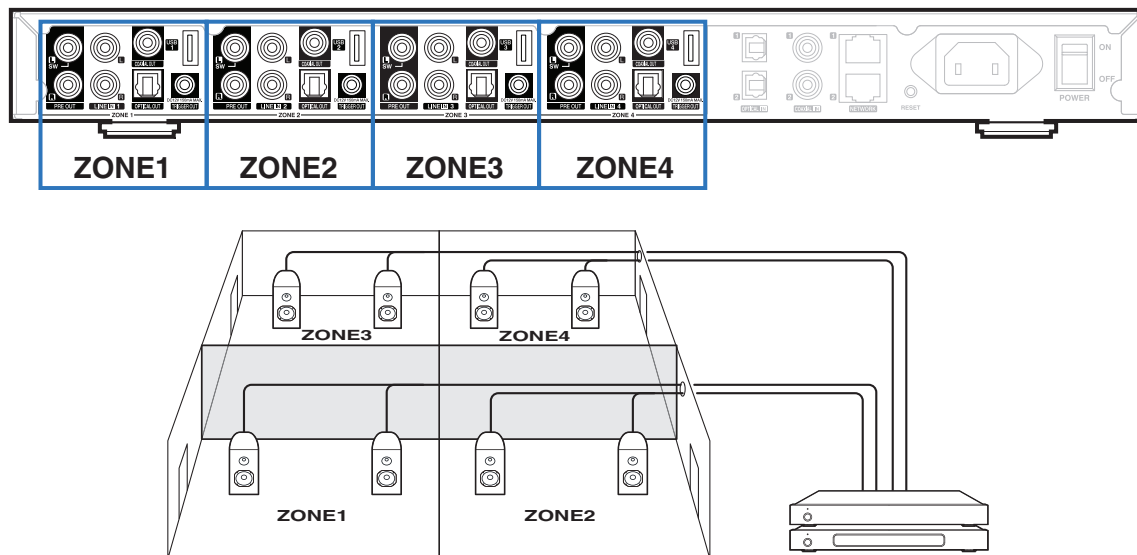
Attach the included rack mounting brackets to the sides of the HEOS Super Link if you want to mount the HEOS Super Link in a standard EIA equipment rack.

- 1 Remove the two screws on each side of the HEOS Super Link.**
- 2 Align the brackets with the screw holes and reattach the screws making sure they are secure.**



Zone connection

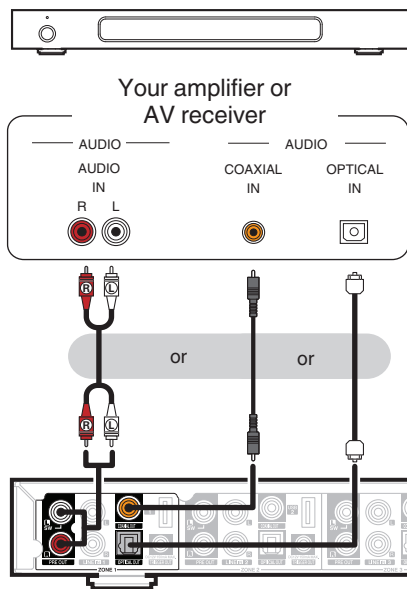
You can simultaneously play the same source in all four HEOS Super Link Zones if desired. You can also play different sources in different zones. Connection and function of page 14 to 18 are ZONE1, ZONE2, ZONE3 and ZONE4 are same as ZONE1.



Connecting external devices

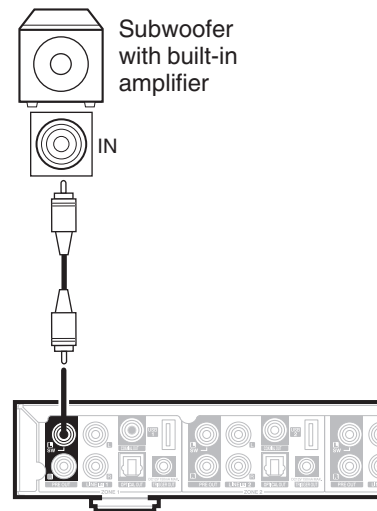
■ Connecting to an external amplifier or AV receiver

Connect the PRE OUT output to an available input on your amplifier or AV receiver using the appropriate cables.



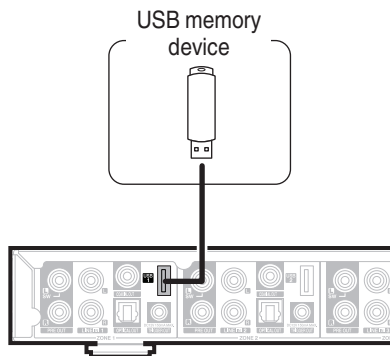
■ Connecting a subwoofer

Connect the PRE OUT “L” output to an input on your powered subwoofer or your subwoofer amplifier. (☞ p. 42)



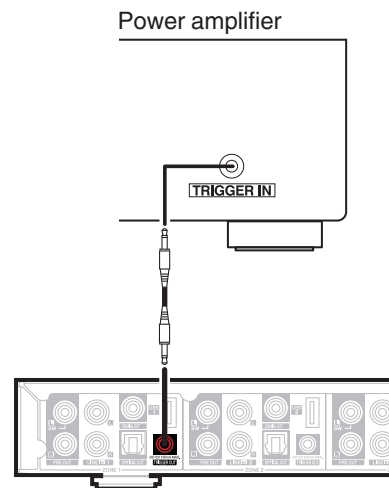
■ Connecting a USB storage device

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



■ Trigger control

If the power amplifier connected to this unit has a trigger input connector, connect it to the TRIGGER OUT jack of this unit using a 3.5mm cable (not included). A signal up to 12 V/150 mA is output from the TRIGGER OUT jack.



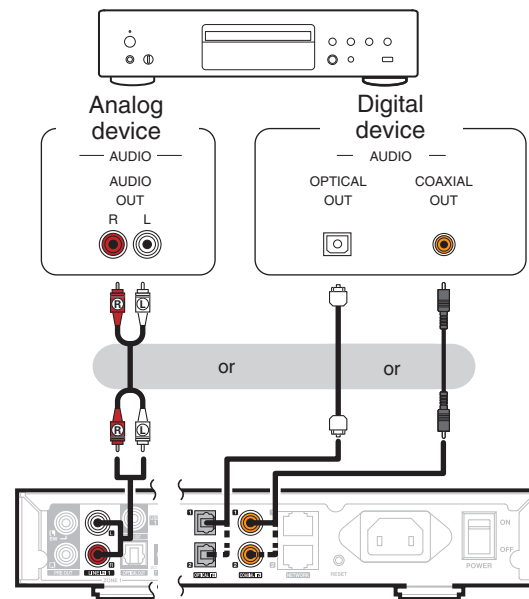
NOTE

- Use a monaural mini-plug cable for connecting the TRIGGER OUT jacks. Do not use a stereo mini-plug cable.
- The Trigger settings must be set in order to use Trigger Control. (Refer to p. 47)

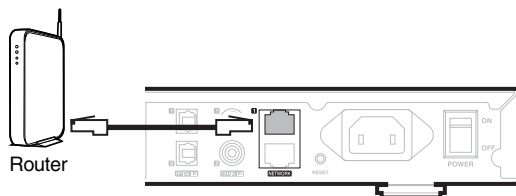


■ Connecting an audio playback device

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

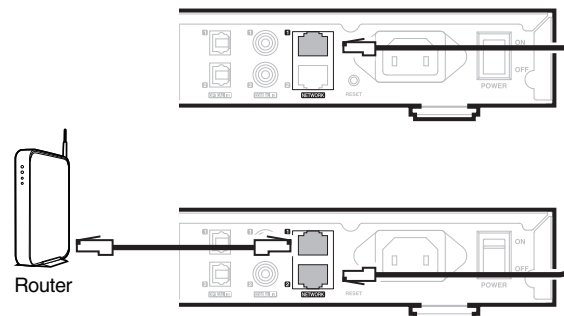


■ Connecting to network



■ Daisy chain

You can use the second Ethernet connection to connect another HEOS Super Link to your network.



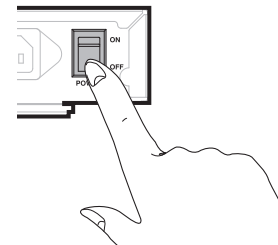
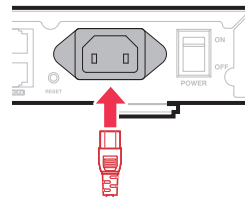
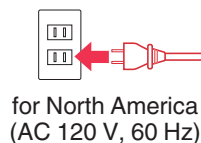
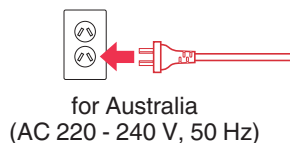
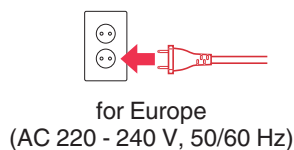
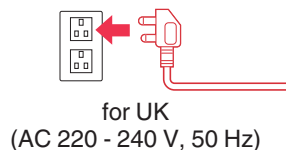
NOTE

- Each HEOS Super Link contains four HEOS modules and therefore always counts as four devices towards the maximum number of 32 HEOS devices supported on any one network. Up to 8 HEOS Super Link units are supported on a single network.



Powering your HEOS Super Link

Connect the appropriate power cord for your region between the back of the HEOS Super Link and a wall outlet and then switch the rear panel power switch to the ON position.



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 App Store for “HEOS”.



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



Adding more HEOS devices

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

NOTE

- Each HEOS Super Link contains four HEOS modules and therefore always counts as four devices towards the maximum number of 32 HEOS devices supported on any one network. Up to 8 HEOS Super Link devices are supported on a single network.

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.

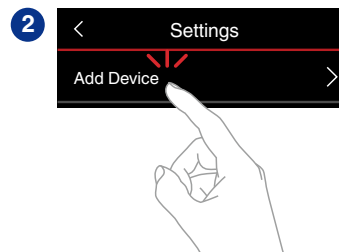
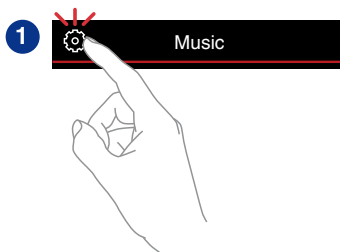


- Use only a shielded STP or ScTP LAN cable which is easily available at electronics stores (CAT-5 or greater recommended).
- Do not connect a Network Connector directly to the LAN port/Ethernet connector on your computer.



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:



NOTE

- HEOS Super Link can not be connected to a wireless network.



Using your HEOS Super Link

Once you have your HEOS Super Link 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!

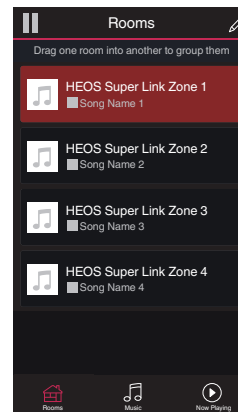
Selecting a room

If you have more than one HEOS Super Link, you must tell the HEOS system which one you want to control:

- 1 Select the Room you want to control.**
- 2 Select the “Music” tab to select a music source or the “Now Playing” tab to control what is currently playing in the selected room.**



- You can start playback in multiple rooms simultaneously by putting multiple Zones in the same grouping. (🔗 [p. 31](#))



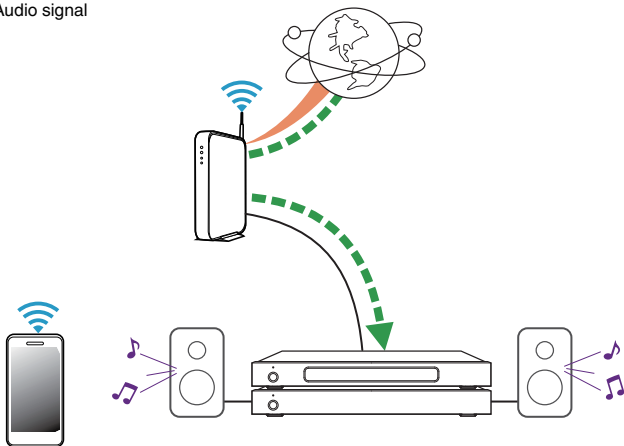
Listening to radio

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.

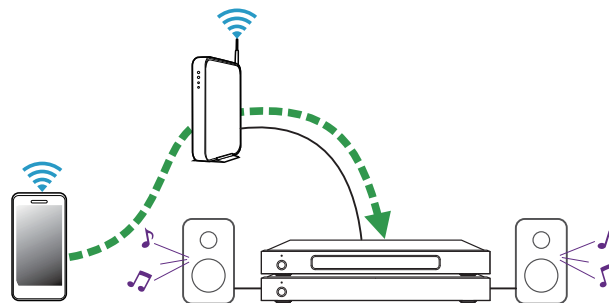
■ ■ ■ Audio signal



Playing music stored on your mobile device

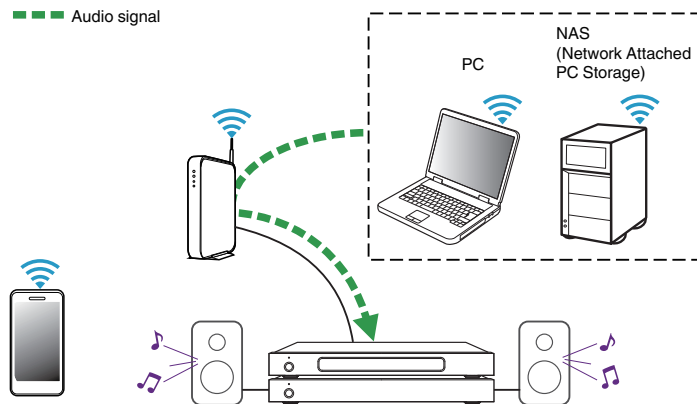
- 1 Tap the “Music” tab.
- 2 Select “This iPhone/iPod/iPad/Phone”.
- 3 Browse the local music on your phone and select something to play.

■ ■ ■ Audio signal



Playing music from your networked PC or NAS

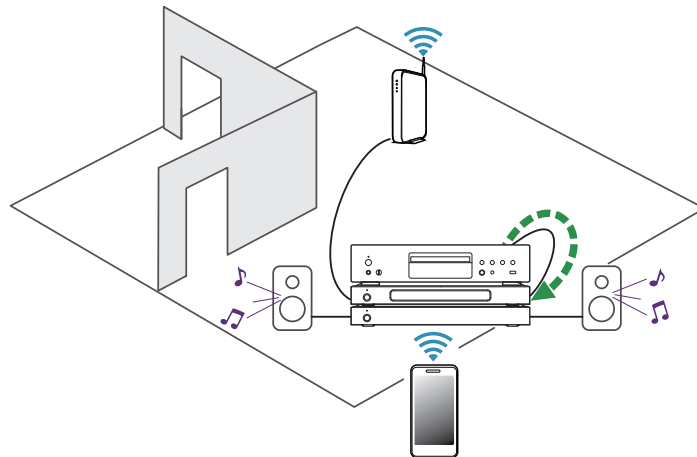
- 1 Select “Music Servers” from the “Music” tab.
- 2 Select the name of your networked PC or NAS (Network Attached Storage) server.
- 3 Browse the music on your PC/NAS and select something to play.



Playing music from an external audio device

- 1** Connect an external audio device to the digital optical, coaxial or analog RCA stereo input on the back of the HEOS Super Link.
- 2** Select “Inputs” from the Music tab.
- 3** Select the name of the HEOS Super Link and which input to which you connected the audio device in step 1.
- 4** Initiate playback on the audio device.

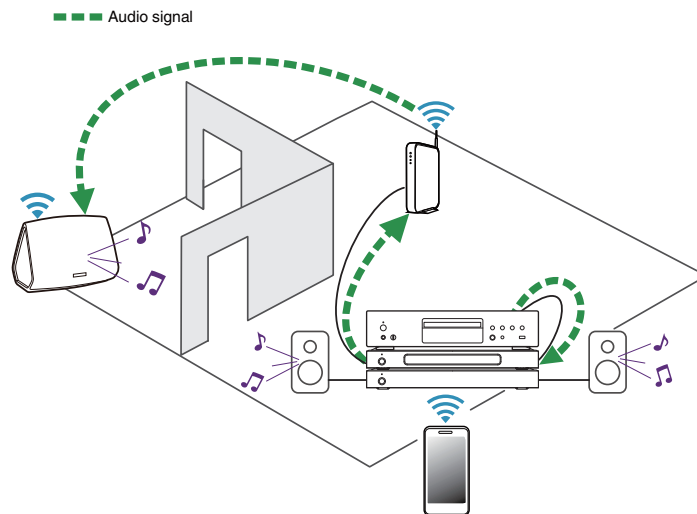
■ ■ ■ Audio signal



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, coaxial or analog RCA stereo input on the back of the HEOS Super Link.
- 2** Select “Inputs” from the Music tab.
- 3** Select the name of the HEOS Super Link and which input to which you connected the audio device in step 1.
- 4** Initiate playback on the audio device.



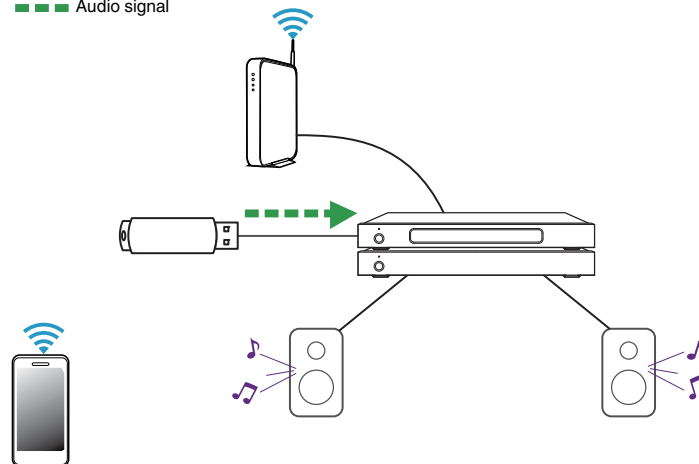
Playing music from a USB device

- 1** Insert a FAT32 formatted USB device into the USB port on the back of the HEOS Super Link.
- 2** Select “USB Music” from the “Music” tab.
- 3** Select the name of the HEOS Super Link and which input to which you connected the audio device in step 1.
- 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 Super Link 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.

--- Audio signal



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.

■ Changing your HEOS account

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



Playing from streaming music services

A music service is an online music company that provides access to vast music collections via free and/or paid subscriptions. Depending upon your geographical location, there are several options to choose from. 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 (like CD players, portable music players, Cable Boxes, etc...) 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.



Listening to the same music in multiple rooms

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

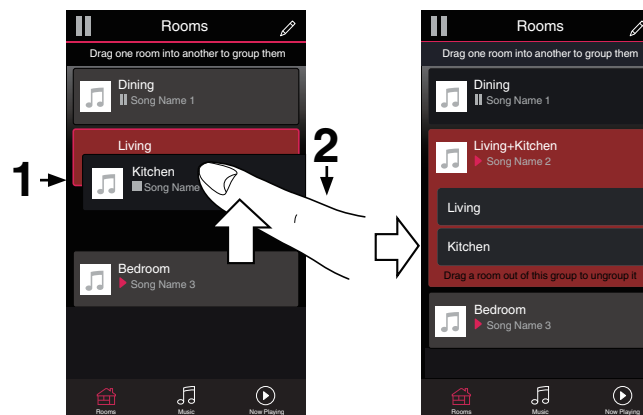
You can easily add up to 32 devices to your HEOS system.

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.



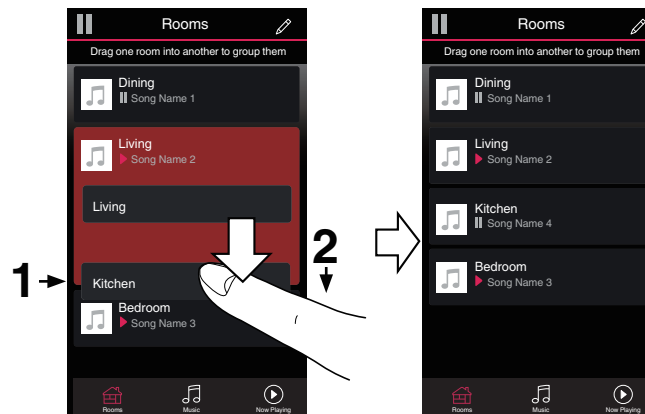
■ Ungrouping rooms

- 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.



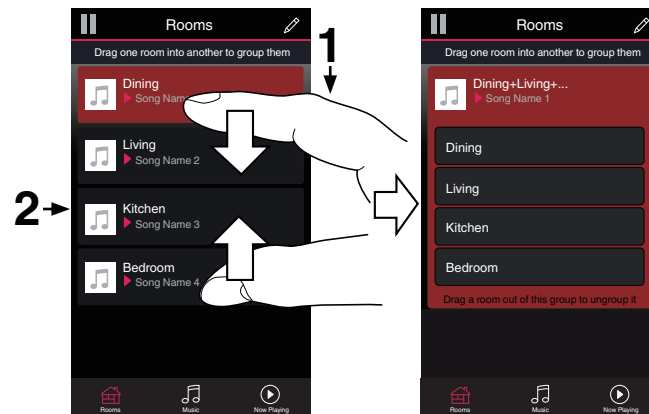
■ Grouping all rooms (party mode)

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.

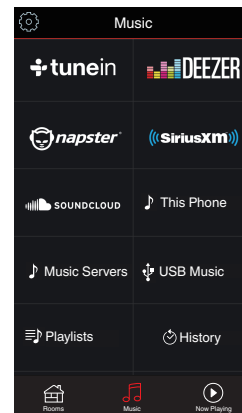
- 1 Place two fingers close together on the screen over list of rooms.**
- 2 Quickly spread your two fingers apart from each other and release.**

All of your rooms will be ungrouped and music will stop playing in every room (except the original “master” room that was playing before you grouped the rooms together).



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.



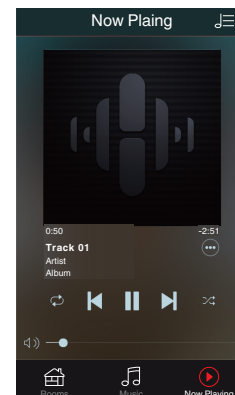
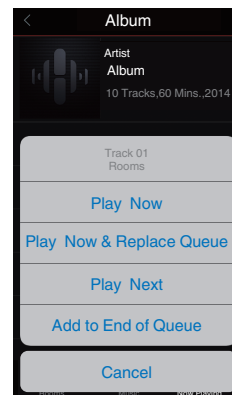
- When you select a music track to play you will be asked how you want to queue up your music.

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  icon.

Performing repeat and shuffle playback

The playback controls are visible on the “Now Playing” screen.

- 1 Tap the “Now Playing” tab.
- 2 Tap the repeat  and shuffle  controls.



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 Super Links 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 devices.
- 3** Select the HEOS Super Link and the Zone you want to adjust.

Changing the name of a HEOS Super Link

- 1** Select “Name”.
- 2** Select or enter a new name for your HEOS Super Link.
- 3** Tap the “Next” to save your changes.

Changing the name of a zone

- 1** Select “Name”.
- 2** Select or enter a new name for your HEOS Super Link.
- 3** Tap the “Next” to save your changes.



Adjusting the equalizer

- 1 Select “EQ”.
- 2 Adjust the “Treble” or “Bass” up or down.



- Select the Reset button to restore the default settings.
- You can also configure settings by tapping ☺ in the Now Playing screen.

Adjusting the balance

- 1 Select “Balance”.
- 2 Adjust the Balance to the left or right.

Adjusting the output mode

- 1 Select “Output Mode”.
- 2 Select Stereo or Dual Mono.

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 “Normal”, high bit rate audio sources originating from the first device (such as AUX input, WAV, FLAC and PCM) will be transcoded to ensure the highest level of reliability for the audio stream.

- 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).

Adjusting the volume limit

You can set the maximum volume of the HEOS Super Link amplifiers to prevent sudden loud volume.

- 1 Select “Volume Limit”.
- 2 Select the maximum volume percentage (95, 90, 85, 80).

NOTE

- Depending on the speakers that are connected, the protection circuit may activate and the power may be turned off when music is played at a high volume. (The Power indicator flashes in red.) If this happens, configure the “Volume Limit” setting.



Adjusting the high pass filter

Set the High Pass Filter to limit the low frequency signal being sent to your speakers.

1 Select “High Pass Filter”.

2 Select the frequency cutoff point:

Off / 40 Hz / 80 Hz / 90 Hz / 100 Hz / 110 Hz / 120 Hz / 150 Hz /
200 Hz / 250 Hz



- If you enable the IP control, “High Pass Filter” will be disappeared and forced to change.

Using a subwoofer

1 Select “Subwoofer”.

2 Enable the Sub Out (L) setting.



- If you enable the IP control, “Subwoofer” will be disappeared and forced to change.

Adjusting the Low Pass Filter

When Subwoofer is set to on, you can limit the high frequency signal being sent to your subwoofer.

1 Select “Subwoofer”.

2 Select “Low Pass Filter”.

3 Set the frequency cutoff point.

40 Hz / 60 Hz / 80 Hz / 90 Hz / 100 Hz / 110 Hz / 120 Hz



Adjusting the line out

- 1 Select “Line Out Level”.
- 2 Select “Fixed” to lock the volume at the optimal level or select “Variable” to control the volume from the Now Playing screen.



- If you enable the IP control, “Line Out Level” will be disappeared and forced to change.

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.

Adjusting the status light brightness

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




Advanced settings

Caution

- Adjusting these settings may disconnect your device from your network and possibly render your device unusable. Do not use these features unless you are comfortable making advanced adjustments.

■ Network settings

- Select “Advanced”.
- Select “NETWORK SETTINGS” tab.
 - Manual or static IP address for your device
 - Deep Standby ( p. 49)
- Select “Save Settings” to apply the new settings or “Cancel Changes” to revert to the previous settings.

NOTE

- “Deep Standby” needs to be set in all four zones to enable this setting.

■ Firmware upgrade

- Select “Advanced”.
- Select “FIRMWARE UPDATE” tab.

☐ Update status

Manually check for a firmware upgrade.

☐ Allow updates

ON (Default):	Allows updates
OFF:	Does not allow updates

- Select “Save Settings” to apply the new settings or “Cancel Changes” to revert to the previous settings.



■ About

Viewing technical details about the HEOS device.

- 1** Select “Advanced”.
- 2** Select “ABOUT” tab.
- 3** Scroll down to see information about the device’s
 - a. Hardware
 - b. Software
 - c. Device




External device control

The HEOS Super Link can tightly integrate with most Denon AV receiver to allow them to operate as if they were one device.

You can configure your HEOS Super Link to tell the connected device when to turn on, turn off, select the correct input and adjust volume and mute.

You can adjust specific settings for each of your HEOS Super Link 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 devices.
- 3** Select a HEOS Super Link.
- 4** Select the Zone you want to set.
- 5** Select “Control”.
- 6** Select the method which is most appropriate for your configuration:

■ IP Control

IP Control is available for Denon AV receiver models sold after 2010 which are connected to the same network as the HEOS Super Link and Controller devices.

- 1** Select IP.
- 2** Select the AV receiver that you have your HEOS Super Link is connected to.
- 3** Select the input on the AV receiver that you have your HEOS Super Link connected to.
- 4** Select Done.

NOTE

- You can test the connection to the AV receiver by pressing the power on, off, and input buttons.
- The following settings are forced to change when IP Control is set.
 - Line Out Level: Fixed
 - High Pass Filter: Off
 - Subwoofer: Off



■ Trigger out

Select Trigger Control when you are connecting your HEOS to a power amp that supports +12 V trigger input.

The HEOS app can control the power on and off for the amp.

1 Select Trigger.

2 Select Done.

NOTE

- You can test the connection to the amp by pressing the power on, off in setting screen for the amp.



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.



Power management

Power modes

■ Quick Start Mode

To save power, the device will automatically enter “Quick Start Mode” whenever there is no network access or playback for 20 minutes and will automatically resume to full power whenever the device is selected and playing music.

The each Zone indicator will be dimmed during Quick Start Mode as it is a fully automatic function.

Also push Power button, the device enter Quick Start Mode.

When all zone enter Quick Start Mode, Power indicator will be red.

■ Deep Standby

The device also has the ability to automatically enter “Deep Standby” whenever the wired network connection is removed for more than 60 minutes in Quick Start Mode. Power indicator will turn off during Deep Standby. To “wake” a HEOS device from Deep Standby, you must press the standby button which will immediately turn on Power indicator.

Power button for more than 6 seconds, the device enter Deep Standby.

NOTE

- “Deep Standby” needs to be set in all four zones to enable this setting.

■ Off

To completely turn off the power to the device you must switch to OFF of power switch on rear panel.



BASIC TROUBLESHOOTING

My HEOS device turns off and the power 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.	–

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>6</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>6</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.	<u>24</u> —

I hear noise from the OPTICAL OUT audio

Solution	Refer to Page
<ul style="list-style-type: none">Noise can be heard if the volume of the connected amp is too high. In this case, turn the volume of the connected amp down.	<u>43</u>



Resetting your HEOS device

Solution	Refer to Page
Resetting your HEOS device will clear out EQ, and name but retain it's current software. To reset your HEOS Super Link, press the Reset button on the back and hold it in until the Zone LED begins to flash amber.	–

Restoring the HEOS device to factory defaults

Solution	Refer to Page
<p>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> <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 Super Link to the factory defaults, turn off the power switch of rear panel. Press the Reset button on the back, turn on the power switch of rear panel, and hold it in until the Zone 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 by Denon 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>



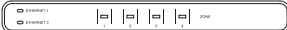

Status LED table

■ Power indicator

Device Operation	Description	Front LED Action
OFF	No AC power, Master Power Switch OFF, Deep Standby	 (off)
ON	Power ON	 (solid)
Power Management	Quick Start Mode-When all Zone enter Quick Start Mode	 (solid)
Error	Hardware protection - Refer to “BASIC TROUBLESHOOTING” (p. 50)	 (blink)


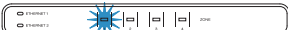




■ Network indicators




Device Operation	Description	Front LED Action
OFF	Not Connected to your network	 (off)
Connect	Connected to your network	 (blink)



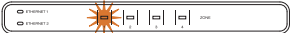



■ Zone indicators

Device Operation	Description	Front LED Action
OFF	No AC Power, Master Power Switch OFF, Deep Standby	 (off)
Master Power Switch ON	Booting	 (blink)
ON	Ready-Configured and connected to your network	 (solid)
	Not Connected to your network	 (solid)

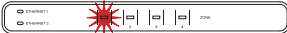



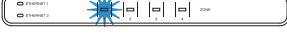


Device Operation	Description	Front LED Action
Update	Updating	 (blink)
	Rebooting	 (blink)
	Ready-Configured and connected to your network	 (solid)

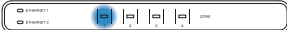



Device Operation	Description	Front LED Action
Reset	Soft reset - Clear user settings	 (fast blink)
	Hard reset - Factory restore	 (blink)
	Rebooting	 (blink)
	Ready-Not Configured	 (solid)



Device Operation	Description	Front LED Action
Errors	Firmware Error	 (slow blink (NOT fade))
	Hardware Error	 (fast blink)
	Network Error	 (solid)
Volume Change		 (quick blink)
Mute		 (slow blink)



Device Operation	Description	Front LED Action
Power Management	Quick Start mode-When all Zone enter Quick Start Mode	 (solid)
	Deep Standby	 (off)



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	---

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

Bitstream:Dolby Digital



Specifications

■ Audio section

- **PRE OUT (LINE IN)**
 - THD+N: 0.003 %
 - S/N ratio: 105 dB
 - Frequency response: 10 Hz to 40 kHz: +1, -3dB
- **PRE OUT (Optical IN/Coaxial IN)**
 - THD+N: 0.003 %
 - S/N ratio: 110 dB
 - Frequency response: 10 Hz to 80 kHz: +1, -3dB (Sampling frequency 192kHz)
- **Digital OUT**
 - Coaxial: 0.5 Vp-p
 - Optical: -15 – -21dBm
- **Digital IN**
 - Coaxial: 0.5 Vp-p
 - Optical: -27 dBm or later



■ 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, UK and Australia)

Power consumption:

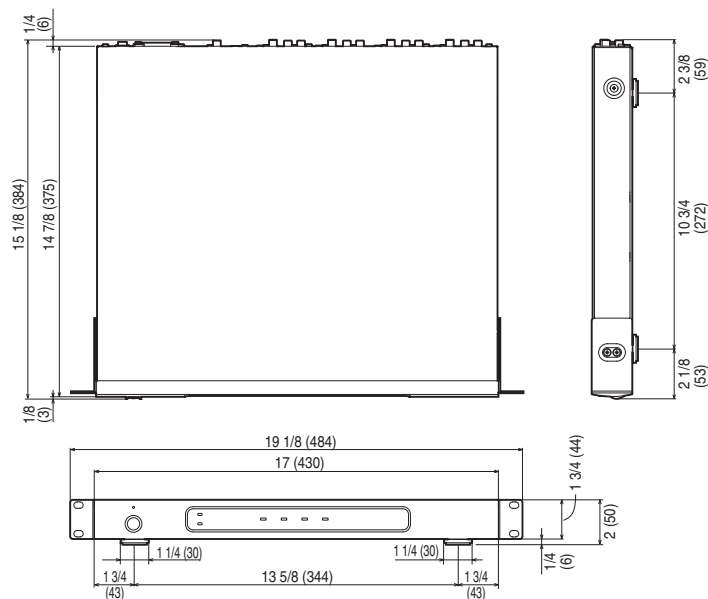
60 W

Power consumption in Deep Standby Mode:

0.3 W



■ Dimensions (Unit : in. (mm))



■ Weight :

10 lbs 9 oz (4.8 kg) (with brackets)

10 lbs 2 oz (4.6 kg) (w/o brackets)

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



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