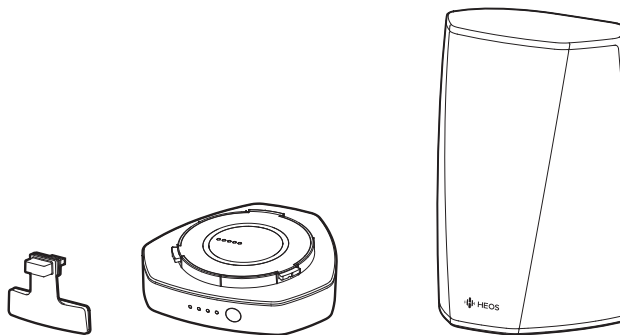




**WIIRELESS SPEAKER
BATTERY AND BLUETOOTH FOR HEOS 1**

Owner's Manual

**HEOS 1
HEOS 1 Go Pack (Sold Separately)**



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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 HEOSbyDenon.com

Introduction

The HEOS speaker 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 Speaker.



Before your begin

NOTE

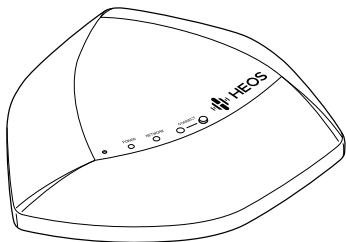
- If you have already installed at least one HEOS device, please skip to the section "Adding more HEOS devices" (🔗 p. 18).

System requirements

Before you begin installing your first HEOS speaker, 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.



The HEOS Extend Wireless Range Extender (sold separately) is available as an accessory, should you need to setup a new wireless network or extend the range of your existing network. Please contact Denon for more information about the Wireless Extender.

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 2.3 or later
- All resolutions



Getting to know your HEOS speaker

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



HEOS 1



Quick Start Guide



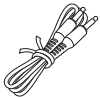
Safety Instructions



Warranty
(North America model only)



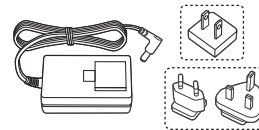
Extended Protection Plan
(North America model only)



Audio/Setup cable



Ethernet cable



Power supply

(North America model only)

(European model only)

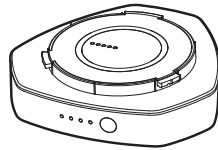
NOTE

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

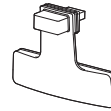


Getting to know your battery (sold separately)

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



Rechargeable battery



Bluetooth USB adapter
and Splashguard



Quick Start Guide



Safety Instructions



Warranty
(North America model only)

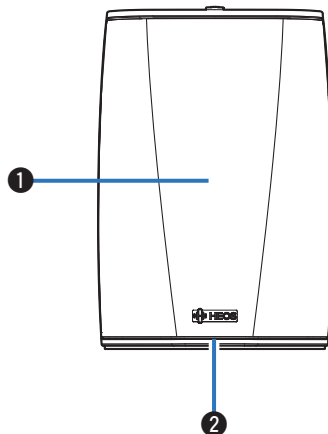


Extended Protection Plan
(North America model only)

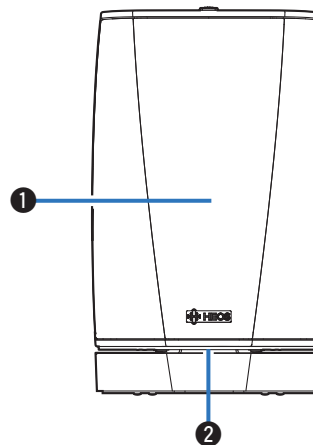


■ Front panel

HEOS 1



HEOS 1 + Go Pack

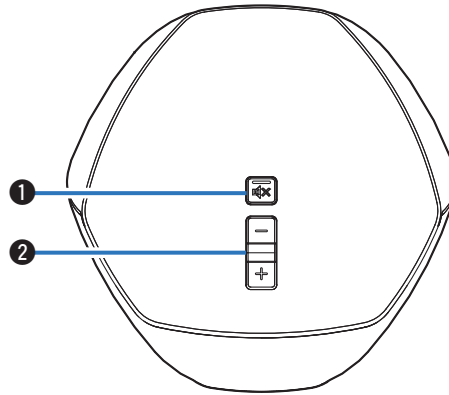


- ① Speakers
- ② Status LED

Please refer to the “Status LED table” for LED color and state meaning “Status LED table” ([🔗 p. 59](#)).



■ Controls



① Mute button (🔇)

Mutes or unmutes the HEOS device's volume.

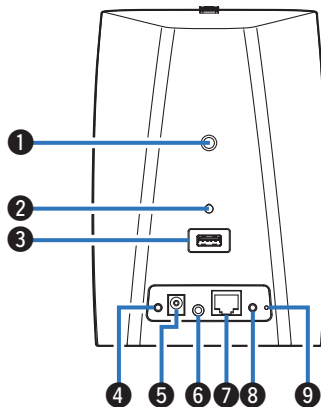
② Volume Up/Down buttons (+, -)

Adjusts the HEOS device's volume level up or down.



■ Back panel

HEOS 1



① Threaded Mounting Hole

Used to mount this unit on a wall or ceiling.

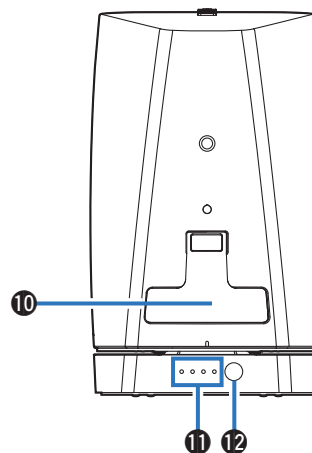
② Safety Wiring Hole

Used to prevent from dropping.

③ USB Input (USB 5V/1A)

Used to connect USB storage devices.

HEOS 1 + Go Pack



④ Reset Button (RESET)

Various settings are reset to the factory default values (☞ p. 56).

⑤ Power Input (DC IN)

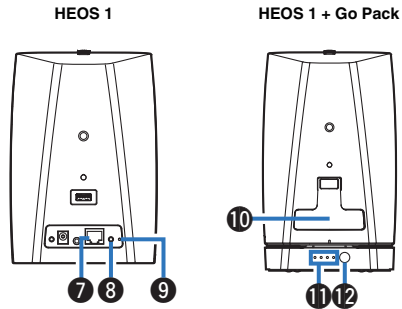
Used to connect the external power supply (☞ p. 16).

⑥ AUX Input (AUX IN)

Used to connect audio devices (☞ p. 22).

Used to add the speaker to your wireless network (☞ p. 18).





7 Network Connector (NETWORK)

Used to connect this unit to a wired Ethernet network (☞ p. 18).

8 Connect Button (CONNECT)

- Used for Wi-Fi setup (☞ p. 56).
- Used in the Bluetooth pairing settings (☞ p. 50).

9 Connect in Status LED

Indicates the status of this unit (☞ p. 56, 59).

10 Cap

Close this cap securely to maintain the splash-proof capabilities.

11 Battery/Charging Indicator

Indicates the amount of remaining battery power and charging status.

12 Status Button

- Used to check the amount of remaining battery power (☞ p. 67).
- Turning off/on the battery (☞ p. 51).



Placing your HEOS speaker

You can place your HEOS device anywhere you want to enjoy great sounding music. Please follow these simple guidelines when determining where to place your speaker...

- The HEOS device must be within range of your wireless network.
- The HEOS speaker is designed to sound best when placed 3 to 12 inches (8 - 30 cm) from a wall.
- Locate the speaker at least 12 inches (30 cm) from a television, computer, or other display device to avoid the possibility of interference.
- Place the speaker across the room from where you will be listening, as close to ear level as possible.
- The HEOS device is not waterproof. Do not place it near any water source and do not leave it outside in the rain or snow.

■ Wall or ceiling mounting

The HEOS 1 speaker can optionally be mounted on a wall or ceiling using standard 1/4 inches (6.35 mm) threaded speaker or camera mounts which support up to 3 lbs 1.4 oz (1.4 kg). Please visit your local Denon dealer or electronics retailer for more information about possible wall and ceiling mounting options.

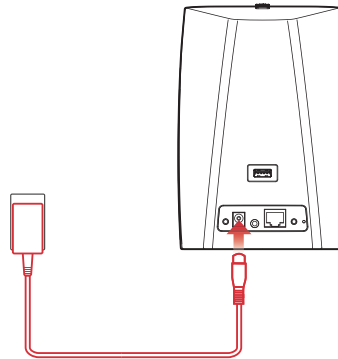
Caution

Recommend installing a safety wire (not included) at the safety wiring hole on the back of the speaker in order to prevent injury to the user and others or damage to property should the speaker fall for some reason.



Powering your HEOS speaker

Connect the power cord included in the box to the back of the speaker and the plug to a wall outlet. The speaker is capable of automatically switching between 100 - 240 V.



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 StoreSM, Google PlayTM store or Amazon for "HEOS by Denon".



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



Setting up your first HEOS speaker

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

Caution

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

- 1 Make sure your mobile device is connected to your wireless network (the same network you want your speakers 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 Audio/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 speaker to your wireless network. (The Wi-Fi settings from your mobile device will be copied to the speaker via the audio cable.)**

NOTE

If you have any problems connecting your HEOS device, jump to the Troubleshooting section ([🔍 p. 52](#)).



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 HEOS devices to your HEOS system.

Adding wired HEOS devices

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

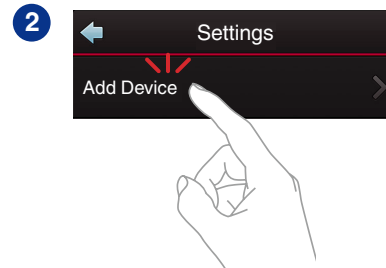
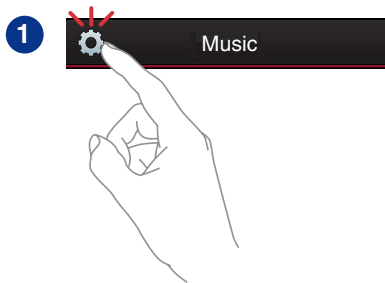
At your convenience, you can assign a name to the HEOS device to indicate which room you have it placed in.



- 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:



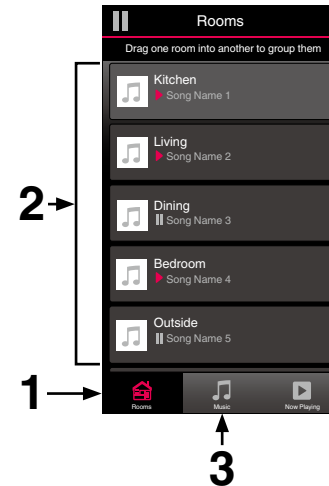
Using your HEOS device

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 on every HEOS device or the same music perfectly synchronized on all HEOS devices. It's up to you!

Selecting a room/speaker

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

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



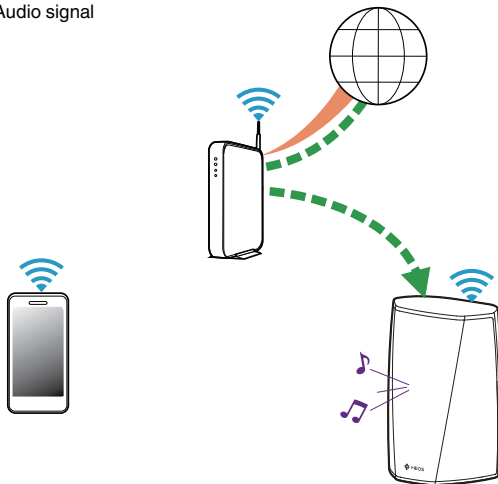
Listening to radio

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.

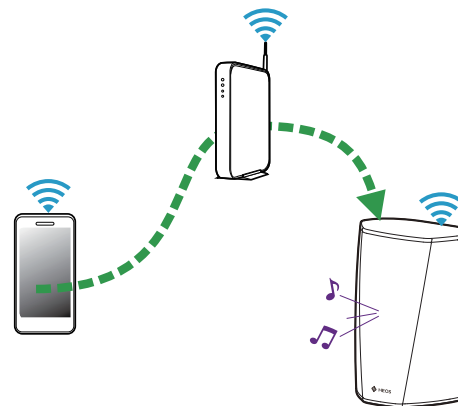
■ ■ ■ Audio signal



Playing music stored on your mobile device

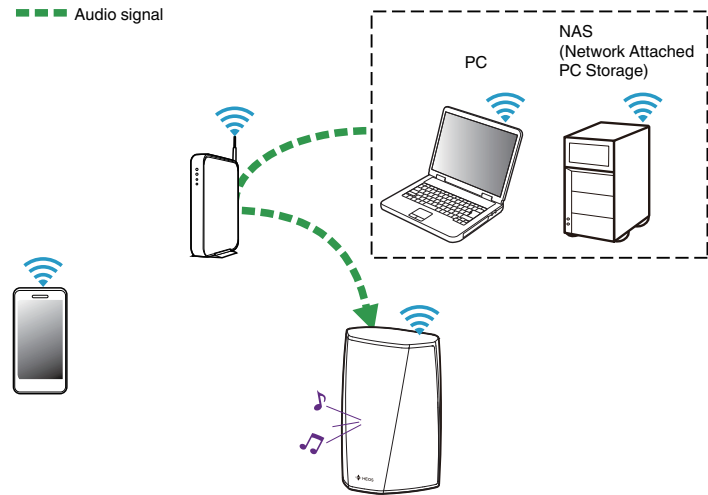
- 1 Tap the “Music” tab.
- 2 Select “This iPhone/iPod/iPad/Phone”.
- 3 Browse the local music on your phone and select something to play.

■ ■ ■ 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 the AUX input

- 1 Connect an audio device with a 3.5 mm stereo audio output to the AUX input on your speaker using the included 3.5 mm stereo audio cable.

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

NOTE

- When there is a cable connected to AUX IN, select “Inputs” from the “Music” tab.

- 2 Initiate playback on the audio device.

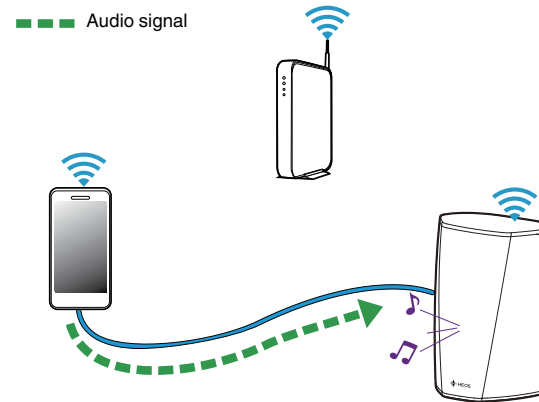


- The sound from the audio device can be played directly on the selected speaker or digitized and sent over your network to other speakers.

NOTE

- 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.

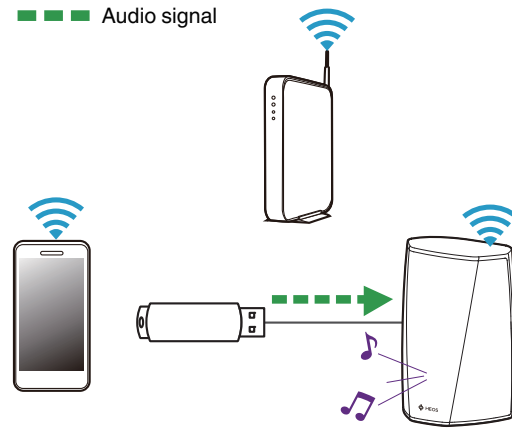


Playing music from a USB device

- 1** Insert a FAT32 formatted USB device into the USB port on the back of the HEOS speaker.
- 2** Select “USB Music” from the “Music” tab.
- 3** Select the name of your HEOS speaker.
- 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.



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 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 Services.


■ 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 speakers 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 speaker 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

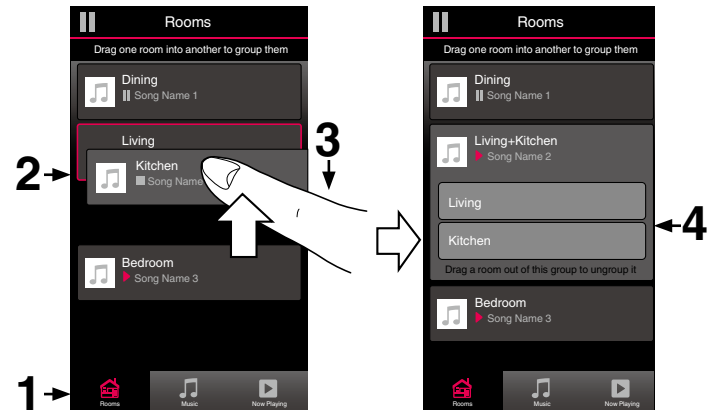
The HEOS system is a true multiroom audio system that automatically synchronizes audio playback between multiple HEOS devices so that the audio coming from different rooms is perfectly in sync and always sounds amazing!

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 Tap the “Rooms” tab.
- 2 Press and hold your finger on room that is not playing music.
- 3 Drag it into the room that is playing music (indicated by the red outline) and lift your finger.
- 4 The two rooms will be grouped together into a single device group and both rooms will be playing the same music in perfect sync.

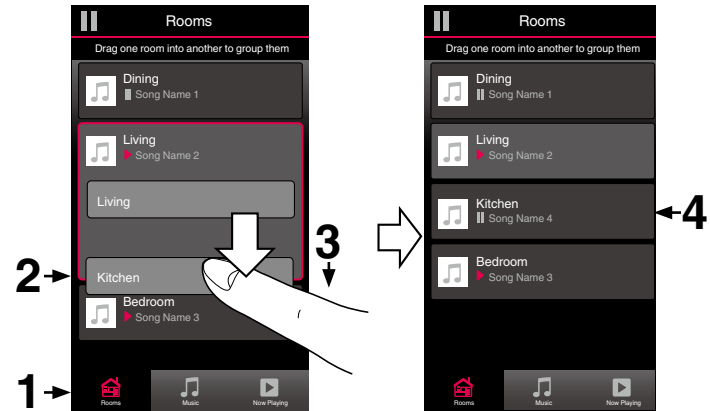


■ Ungrouping rooms

- 1 Tap the “Rooms” tab.
- 2 Press and hold your finger on room that you want to remove from the group.

NOTE

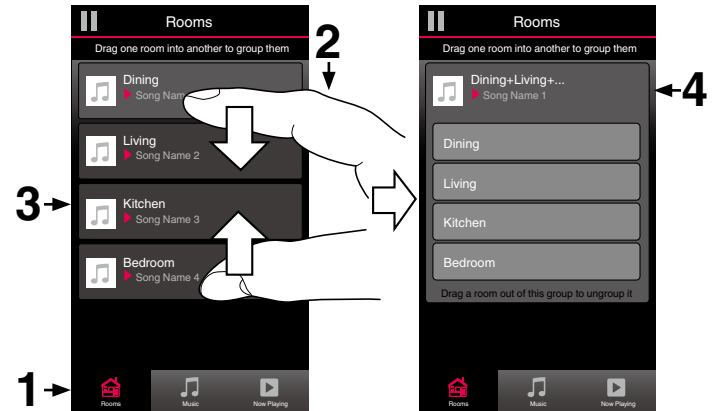
 - You can not remove the first room that started playing the music before grouping.
- 3 Drag it out of the group and lift your finger.
- 4 Music will stop playing in the room you dragged out of the group but will continue playing in any remaining rooms.



■ Grouping all rooms (party mode)

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

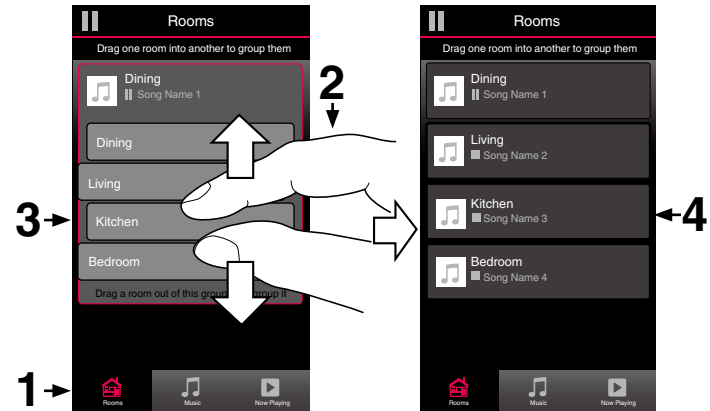
- 1 Tap the “Rooms” tab.
- 2 Place two fingers on the screen over the list of rooms.
- 3 Quickly pinch your two fingers together and release.
- 4 All of your rooms will be joined together and begin playing the same music in perfect sync.



■ Ungrouping all rooms

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


- 1 Tap the “Rooms” tab.
- 2 Place two fingers close together on the screen over list of rooms.
- 3 Quickly spread your two fingers apart from each other and release.
- 4 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).

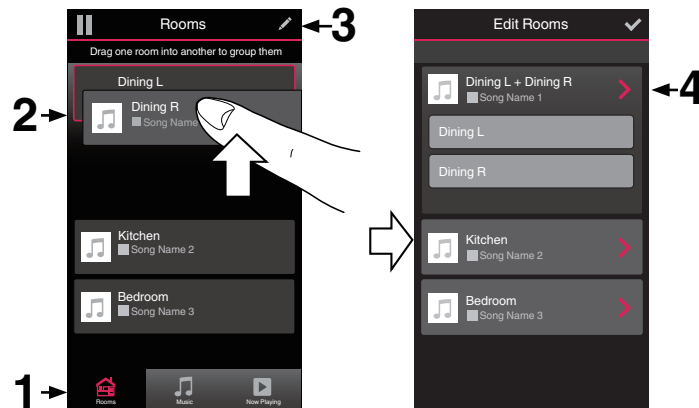


Stereo pairing

■ Creating a stereo pair

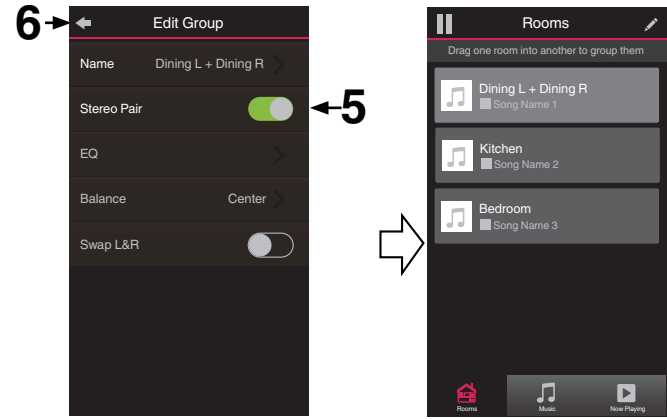
A matching pair of speakers that have been grouped together (see above) can be saved as a persistent stereo pair where one speaker outputs the left channel of audio and the other speaker outputs the right channel of audio. Paired speakers will then appear as a single Room (with two speakers playing music) in the Rooms list.

- 1 Tap the “Rooms” tab.
- 2 Create a group containing **ONLY two matching speakers** (see “Grouping rooms” (🔗 p. 28)).
- 3 Tap the Pencil  icon to enter Edit mode.
- 4 Tap on the Group of two matching speakers to Edit the Group.





- 5 Tap on the Stereo Pair switch to pair the two speakers.
- 6 Tap the Back arrow to return to the list of Rooms.
- 7 Tap the Check Mark icon to exit Edit mode.



The group of two matching speakers will now appear as a single Room. You can change the name of the stereo paired room at any time.



■ Changing the name of a stereo pair



- 1 Tap the “Rooms” tab.
- 2 Tap the Pencil  icon to enter Edit mode.
- 3 Tap a Stereo Pair (a room which contains two HEOS 1 speakers) to edit the group.
- 4 Tap “Name”.
- 5 Select or enter a new name for your pair of speakers.
- 6 Tap the Save  button to save your changes.

■ Adjusting the balance



- 1 Tap the “Rooms” tab.
- 2 Tap the Pencil  icon to enter Edit mode.
- 3 Tap a Stereo Pair (a room which contains two HEOS 1 speakers) to edit the group.
- 4 Select “Balance”.
- 5 Adjust the Balance to the left or right.
- 6 Tap the Check Mark  icon to exit Edit mode.



■ Swapping left and right channels in a stereo pair

- 1 Tap the “Rooms” tab.
- 2 Tap the Pencil  icon to enter Edit mode.
- 3 Tap a Stereo Pair (a room which contains two HEOS 1 speakers) to edit the group.
- 4 Tap on the Swap L&R switch to swap the left and right channels of the two speakers.
- 5 Tap the Back arrow to return to the list of Rooms.
- 6 Tap the Check Mark  icon to exit Edit mode.

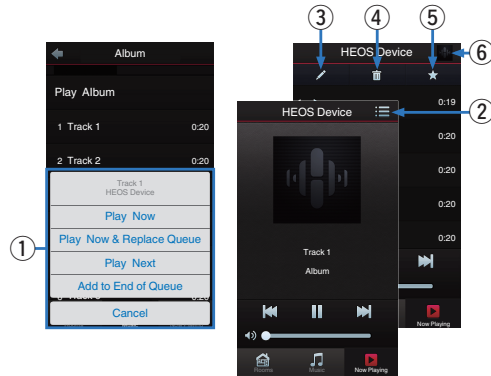
■ Removing a stereo pair

- 1 Tap the “Rooms” tab.
- 2 Tap the Pencil  icon to enter Edit mode.
- 3 Tap a Stereo Pair (a room which contains two HEOS 1 speakers) to edit the group.
- 4 Tap on the Stereo Pair switch to return the paired speakers to two individual speakers.
- 5 Tap the Back arrow to return to the list of Rooms.
- 6 Tap the Check Mark  icon to exit Edit mode.



Using the now playing queue

HEOS uses a Now Playing “Queue” to line up music that you want to listen to. Music can be selected from any of your local or online music sources (as long as they are not preprogrammed “radio” or “station” type streams). This feature works similarly to how a jukebox works. You select something to play (a song, album, playlist or even your entire music collection) and add it to the “Queue”. When you select something to play you will be asked how you want to queue up your music.



1 Queue Menu

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

2 Queue icon

3 Pencil icon

4 Delete icon

5 Save icon

6 Cover art or HEOS icon

You can return to the “Now Playing” screen display by tapping the cover art or the HEOS icon.

■ 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.






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.

Performing repeat and shuffle playback

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

- 1 Tap the “Now Playing” tab.
- 2 Tap the cover art to reveal the repeat  and shuffle  controls.



Using the favorite

HEOS uses a "HEOS Favorite" 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 Favorite" 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 favorite".

NOTE

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


■ Deleting station from the HEOS favorite

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



Making speaker adjustments

You can adjust specific settings for each of your HEOS speakers 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 speaker you want to adjust.

Changing the name of a speaker

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

Changing the wireless network connection

- 1** Select “Network”.
- 2** A list of wireless networks that your speaker can access is displayed.
- 3** Select the network you want your speaker to join.
- 4** Wait as the speaker’s network connection is changed.

NOTE

- Wired networking is automatically selected when the speaker is connected to a wired Ethernet network. To switch back to using a wireless network you must remove the Ethernet cable from the back of the speaker.



Changing the speaker's equalizer

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

NOTE

- Select the Reset button to restore the default settings.

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).
- This setting does not affect the AUX input when played on the connected device by itself (there are no other devices grouped to it), in which case the original source quality and bit rate are maintained and there is no inherent delay.

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 speaker settings

Caution

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

■ Network settings

- 1 Select “Advanced”.
- 2 Select “NETWORK SETTINGS” tab.
- 3 Scroll down to see all of the options for
 - a. Network Interface (Ethernet or Wireless)
 - b. Wireless Settings
 - c. IP Address Settings (Automatic or Manual)
 - d. Wireless Power Saving
- 4 Select Save Settings to apply the new settings or Cancel Changes to revert to the previous settings.

■ About wireless power saving

The Wireless Power Savings feature saves power by turning off power to the wireless radio inside the HEOS device when the device is connected to an Ethernet network. If you disconnect the Ethernet cable from the HEOS device, Wireless Power Saving will automatically turn off and the wireless radio will turn on so that the HEOS device can be discovered over your wireless network.

NOTE

- If Wireless Power Savings is ON, Wi-Fi power will be temporarily turned on when accessing the My Devices/(My Devices)/Network screen in the HEOS app or whenever the Connect button on the device is pressed.



■ Firmware upgrade

- 1 Select “Advanced”.
- 2 Select “FIRMWARE UPGRADE” tab.

Update status

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

Allow updates

ON: Allows updates

OFF: Does not allow updates

- 3 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 speaker’s**
 - a. Hardware
 - b. Software
 - c. Device



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: 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.

Sharing music from your mobile device

The HEOS app has a feature called “Music Sharing” which can share the local music stored on your mobile device to other HEOS app users on your local network. To enable this feature, select “Music Sharing”, and set it on “ON”.

The name of the device you are sharing from will appear as a music server allowing other HEOS controller apps to browse and play music from the your device.

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.



Submit diagnostics

If you are having trouble with your network or HEOS system, you may be asked by Denon technical support personnel to select this option. This feature will automatically send Denon technical support diagnostic information about your HEOS system.

NOTE

- No personal information is sent and your information will never be shared with anyone.

Resetting your controller app

This feature will reset the control app to its original state when you first installed it on your mobile device without requiring you to remove, download, and reinstall it from the app store.



Power management

Power modes

■ Network Standby

To save power, the device will automatically enter “Network Standby” 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 front panel LED will be dimmed during “Network Standby” as it is a fully automatic function.

■ Deep Standby

The device also has the ability to automatically enter “Deep Standby” whenever the wired or wireless network connection is removed for more than 60 minutes in Network Standby. The front panel LED will turn off during Deep Standby. To “wake” a HEOS device from Deep Standby, you must press the volume or mute buttons which will immediately turn on the front panel LED.

NOTE

- The device does not enter “Deep Standby” mode when running on battery.

■ Off

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



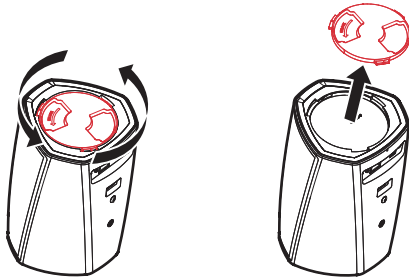
Setting up HEOS 1 Go Pack

Before using a new HEOS 1 speaker with Bluetooth, we recommend you first connect your HEOS 1 Speaker to your home network to get the latest speaker updates and newest features.

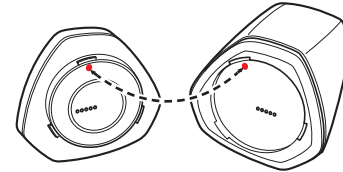
A home network is not required for every day Bluetooth functionality.

Connecting the battery

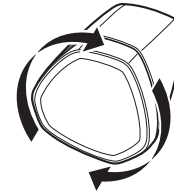
- 1 Remove the cap from the bottom of the HEOS 1 speaker by turning the cap counter-clockwise and pulling it away from the speaker.**



- 2 Align the red dots on the top of the battery and bottom of the speaker.**

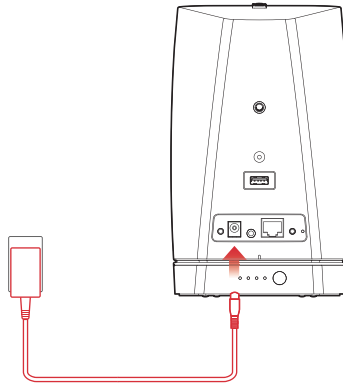


- 3 Turn the battery clockwise so that it is aligned with the shape of the speaker.**



Charging the battery

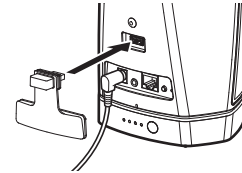
To charge the battery, connect the HEOS 1 power adapter between the speaker and a wall outlet.



- It takes at least 3.5 hours to fully charge the battery when it is completely discharged (see p. 67).
- HEOS 1 Go Pack can be used for approximately 6 hours when the battery is fully charged. (The playback time may differ depending on the ambient temperature, playback volume, and usage conditions)

Connecting the Bluetooth adapter

Once your battery is fully charged, attach the Bluetooth Adapter to the back of the speaker.

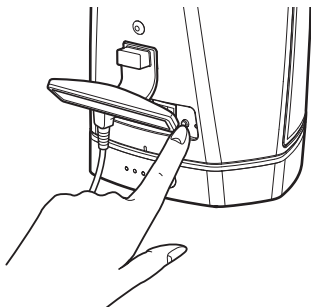


Pairing the HEOS 1 with your devices

- 1 Activate the Bluetooth setting on your mobile device.



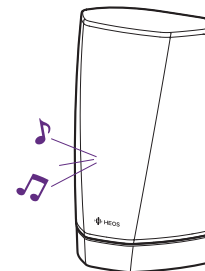
- 2 Press and hold the Connect button located on the back of the HEOS 1 speaker (under the right side of the cap) for 3 seconds and release the button when you see a pattern of two flashes on the status LED.



- 3 Select "HEOS 1" from the list of available Bluetooth devices. In a few seconds your mobile device will indicate that it is connected to your speaker.

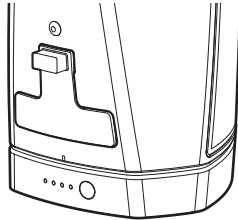


- 4 Play music using any app on your device. The sound will now play from the HEOS 1 speaker.



Close splashguard

- 1 Remove the power connector from the speaker.
- 2 Press in the Splashguard so that it is firmly and evenly attached.



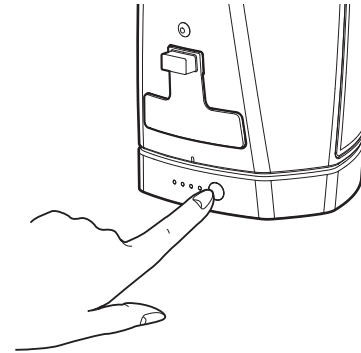
Properly attaching the splashguard will make your HEOS 1 speaker waterproof to the IPX4 standard. DO NOT submerge the speaker in water!

Turning off/on the battery

To turn off the battery, press and hold the button on the back of the battery for 2 seconds. The LEDs will flash quickly then turn off, indicating that the battery is off.

Turning off the battery will conserve battery power while you are not playing music and HEOS 1 is not plugged in to AC power.

To turn the battery back on, press and hold the button again for 2 seconds.



NOTE

While the battery is disconnected from HEOS 1, it is always off.



Basic troubleshooting

My speaker 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 speaker. 	17
<ul style="list-style-type: none"> Alternatively, you can connect your speaker to your network router using the included Ethernet cable. Once connected via Ethernet, the HEOS by Denon App should recognize the speaker and you can manually move it to your wireless network using Settings/My Devices/Device_Name/Advanced/Network Settings. 	18

I get a message "Device was not found"

Solution	Refer to Page
<ul style="list-style-type: none"> Move your speaker closer to your wireless router. 	15
<ul style="list-style-type: none"> Your speakers and controller device may not be on the same network. Verify that the controller device is on the same network as your speakers. This is usually configured under the Settings feature on your device. If you have more than one network, your device may hop to a different network as you move around your home. 	17
<ul style="list-style-type: none"> Make sure you don't have any other electronic devices interfering with your wireless network signals. Microwave ovens, cordless phones, and some televisions can cause wireless network interference. 	15
<ul style="list-style-type: none"> If your speakers are located far away from your router, consider adding a Wireless Range Extender like the HEOS Extend. 	7
<ul style="list-style-type: none"> In case your wireless router is incompatible with HEOS speaker, please use the optional HEOS Extend Wireless Range Extender and hard-wire it to your router. 	7



The front LED of HEOS 1 flashes repeatedly

Solution	Refer to Page
<ul style="list-style-type: none"> When the battery level is near zero the front LED of the HEOS 1 may flash repeatedly. This indicates that there is insufficient power in the battery to boot up the speaker. Please connect the AC adapter to the speaker which will charge the battery. The speaker can be used as normal while it is being charged. 	49

Cannot pair a Bluetooth mobile device with the HEOS device

Solution	Refer to Page
<ul style="list-style-type: none"> The connection from the mobile Bluetooth device is malfunctioning. Power cycle the mobile device, remove the pairing information and re-pair the HEOS 1 speaker to the mobile device. Press and hold the connect button for 3 seconds and release the button when you see a pattern of two flashes on the status LED. Make sure your mobile device has Bluetooth turned on and select "HEOS 1" from the list of Bluetooth devices. 	<p style="text-align: center;">–</p> 50



Cannot hear Bluetooth music

Solution	Refer to Page
• Your Bluetooth mobile device is not paired with HEOS 1. Follow the pairing procedure.	<u>50</u>
• HEOS 1 is off. Connect HEOS 1 to AC power or turn on the HEOS 1 battery by pressing battery power button for 2 seconds. Check the AC power outlet is working.	—
• HEOS 1 battery is fully depleted. Check the battery gauge. Recharge the battery.	<u>67</u>
• The HEOS 1 is Wi-Fi mode or Aux-in mode etc. Pair and connect Bluetooth device to HEOS 1.	<u>50</u>
• The Bluetooth mobile device is connected to another audio device. Make sure your Bluetooth device is connected to HEOS 1.	—
• The volume on Bluetooth mobile device is too low. Check the volume on the Bluetooth mobile device. Check the volume on the HEOS 1 speaker.	—

Cannot attach battery

Solution	Refer to Page
• Make sure bottom cover not is installed on HEOS 1 speaker.	<u>48</u>
• Make sure no foreign object stuck in speaker/battery connection mechanism.	—
• Be sure to line up red dots before attempting clockwise rotation to lock.	<u>48</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>7</u>
<ul style="list-style-type: none"> Make sure your speakers are within range of your wireless network. 	<u>7, 45</u>
<ul style="list-style-type: none"> Make sure your speakers are not located near other electronic devices that could interfere with it's wireless connectivity (like microwave ovens, cordless phones, TVs, etc...). 	<u>7, 45</u>

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

Solution	Refer to Page
<ul style="list-style-type: none"> If you are connecting the AUX input with your cable or satellite box for enjoying TV audio through multiple HEOS speakers, 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 speakers so that it arrives at all speakers at the same time. 	<u>22</u>
<ul style="list-style-type: none"> You can avoid this delay by listening only to the speaker 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
<p>If your wireless router support WPS (Wi-Fi Protected Setup™) your HEOS wireless speaker can optionally connect to your network using the “Push Button” method by following these steps:</p> <ol style="list-style-type: none"> Press the WPS button on your router. Within 2 minutes, rapidly press the Connect button 3 times (within 2 seconds of each press). The LED on the front of the speaker 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 speaker will turn solid blue. 	7

Resetting your speaker

Solution	Refer to Page
<p>Resetting your speaker will clear out the wireless network info, EQ, and name but retain it’s current software. You will have to use Settings - Add Speaker to reconnect the speaker to your home network before it can be used.</p> <p>To reset your speaker, gently insert a small paperclip into the Reset button hole on the back of the speaker and hold it in until the front LED begins to flash amber.</p>	—



Restoring the speaker 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 device to the factory defaults, unplug the power cable from the back of the HEOS device. Insert a small paperclip into the Reset button hole 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 [HEOSbyDenon.com](https://www.denon.com/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:


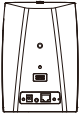

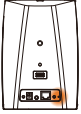

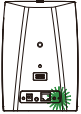


If you need additional help in solving problems, please contact Denon customer service in your area or visit HEOSbyDenon.com











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)











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











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


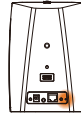

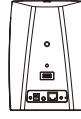

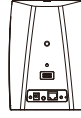

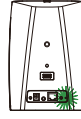


Device Operation	Description	Front LED Action	Rear LED Action
	Rebooting	 (blink)	 (off)
	Ready-Configured and connected to your network	 (solid)	 (off)
Reset	Soft reset - Clear user settings	 (fast blink)	 (solid)
	Hard reset - Factory restore	 (blink)	 (solid)








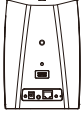


Device Operation	Description	Front LED Action	Rear LED Action
	Rebooting	 (blink)	 (off)
	Ready-Not Configured	 (solid)	 (solid)
Errors	Firmware Error	 (slow blink (NOT fade))	 (off)
	Hardware Error	 (fast blink)	 (off)









Device Operation	Description	Front LED Action	Rear LED Action
	Network Error	 (solid)	 (solid)
Volume Change		 (quick blink)	 (off)
Mute		 (slow blink)	 (off)
WPS	a WPS session is active	 (fast blink)	 (fast blink)



Device Operation	Description	Front LED Action	Rear LED Action
	WPS connected	 (for 3 sec. solid)	 (solid)
	WPS time-out	 (for 3 sec. solid)	 (solid)
Power Management	Network Standby	 (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)



Battery indicator of HEOS 1 Go Pack

The battery indicator uses 4 LEDs to indicate the approximate time remaining on the internal battery and the status of the charge process when connected to an AC power source.

■ When connected to the AC charger/power supply (charging)

Press and release the Φ button to check the charging status. The charging indicator is displayed for approximately 5 seconds.

Mode	Battery Status	LED
Charging	100 %	
	76 – 99 %	
	51 – 75 %	
	26 – 50 %	
	0 – 25 %	

■ When running on battery power

Press and release the Φ button to check the remaining battery. The remaining battery level is displayed for approximately 5 seconds.

Mode	Battery Status	LED
Battery Operation	76 – 100 %	
	51 – 75 %	
	26 – 50 %	
	6 – 25 %	
	0 – 5 %	



Low Battery Indicator: When the battery level is near zero, the left LED may flash. This indicates that the AC charger needs to be connected as soon as possible.



Supported file types and codecs

Frequency	Sample Rate	File Extension	Codec	Bit Rates
32 kHz 44.1 kHz 48 kHz	16 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 kHz 48 kHz	16 bit	flac	flac	---
44.1 kHz 48 kHz	16 bit	m4a	ALAC	---

NOTE

- Files protected by DRM such as Apple's Fairplay DRM, are not supported.



Specifications

Speaker specifications

■ HEOS 1

Wireless LAN

Network type:	Conforming to IEEE 802.11a/b/g/n
Used frequency range:	2.4 GHz, 5 GHz

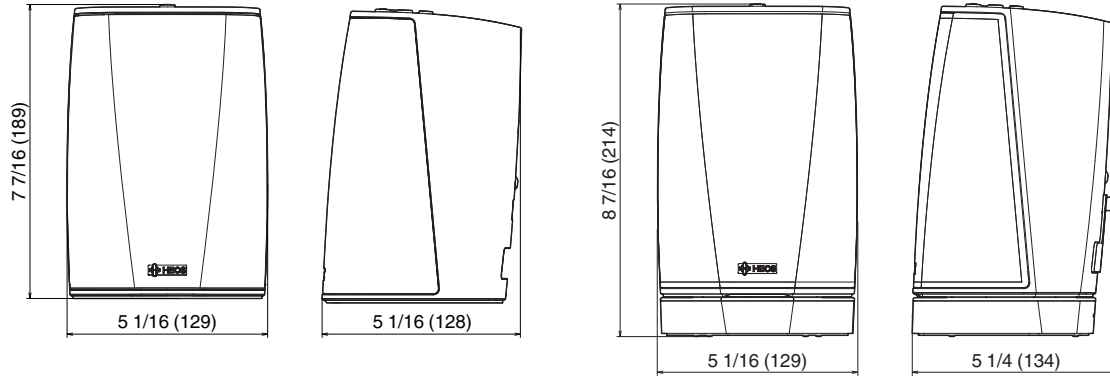
General

Operating temperature:	41 °F - 95 °F (5 °C - 35 °C)
Power supply:	AC 100 – 240 V, 50/60 Hz
Power consumption:	20W
Power consumption in Network Standby mode:	4.5W
Power consumption in Deep Standby mode:	0.3W



Dimensions

Unit : in. (mm)



Weight:

HEOS 1 : 3 lbs 1.4 oz (1.4 kg)

HEOS 1 + Go Pack : 3 lbs 12.0 oz (1.7 kg)

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



Information

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