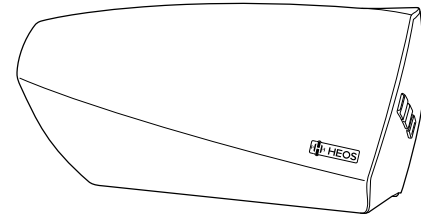
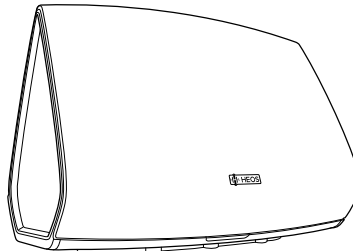
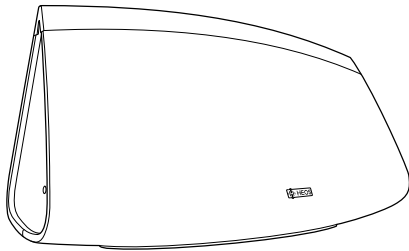




Wireless Speaker

Owner's Manual

HEOS 7
HEOS 5
HEOS 3



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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 wireless 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 speakers
- 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 speaker).

[Example] HEOS 5



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



BEFORE YOU BEGIN

NOTE

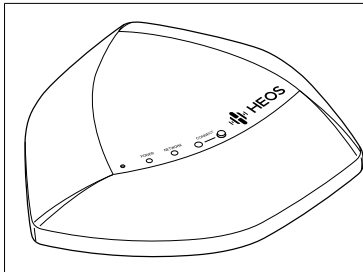
If you have already installed at least one HEOS speaker, please skip to the section “ADDING MORE HEOS SPEAKERS” below (🔗 page 14).

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 5.0 or later
- iPhone® 3GS or newer
- iPad®
- iPod touch® (3rd generation) or newer



Android Minimum Requirements

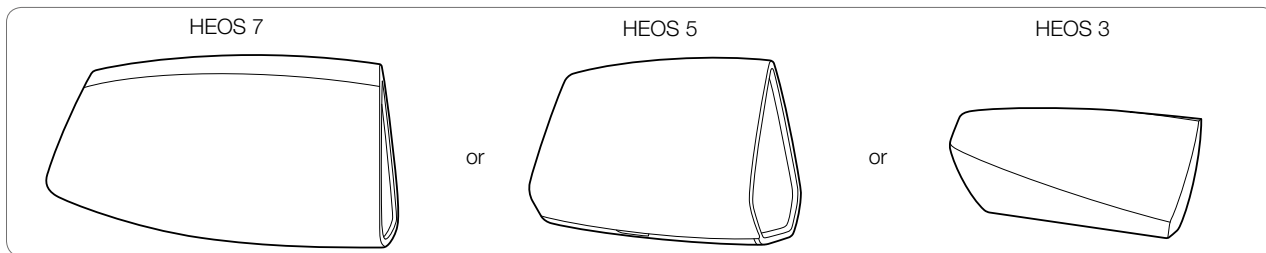
- Android OS version 2.3 or later
- All resolutions



Getting To Know Your Speaker

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

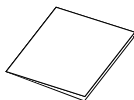
① HEOS Speaker



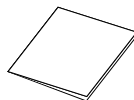
② Quick Start Guide



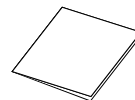
③ Safety Information Sheets



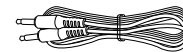
④ Warranty (North America model only)



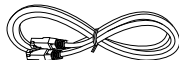
⑤ Extended Protection Plan (North America model only)



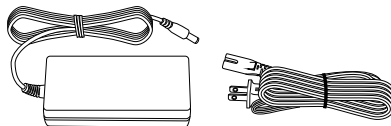
⑥ Audio/Setup cable



⑦ Ethernet cable

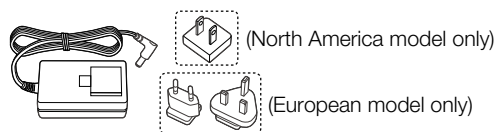


⑧ Power supply and Power cord (for HEOS 7/5)



or

⑨ Power supply (for HEOS 3)



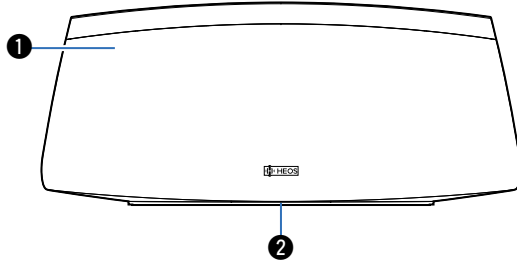
NOTE

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

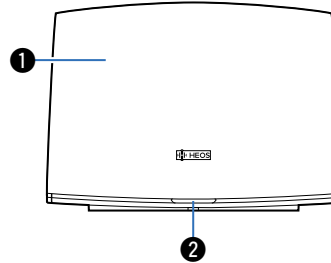


■ Front panel

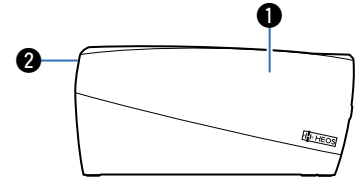
HEOS 7



HEOS 5




HEOS 3



① Speakers

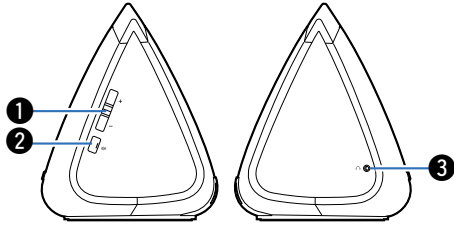
② Status LED

Please refer to the “Status LED Table” for LED color and state meaning “Status LED Table” ( page 39).

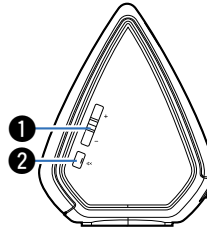


■ Controls

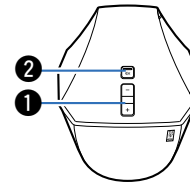
HEOS 7



HEOS 5



HEOS 3



❶ Volume Up/Down buttons (+, -)

Adjusts the speaker's volume level up or down.

❷ Mute button (⏸)

Mutes or unmutes the speaker's volume.

❸ Headphone output (HEOS 7 only)

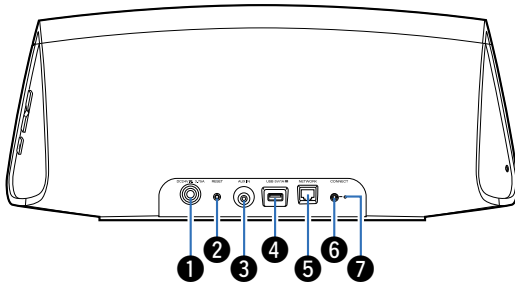
The music will stop playing through the built in speakers when you insert the headphones and turn back on when you remove the headphones.

See  [page 20](#).

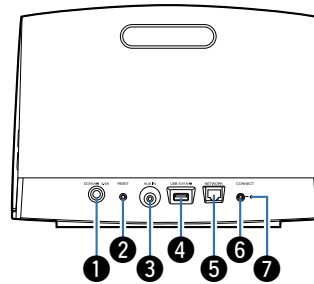


■ Back panel

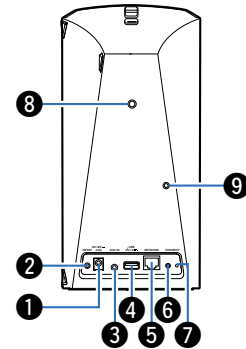
HEOS 7



HEOS 5



HEOS 3



❶ Power Input (DC)

Used to connect the external power supply ([🔗 page 12](#)).

❷ Reset Button (RESET)

Various settings are reset to the factory default values ([🔗 page 36](#)).

❸ AUX Input (AUX IN)

Used to connect audio devices ([🔗 page 17](#)).

❹ USB Input (USB 5V/1A)

Used to connect USB storage devices.

❺ Network Connector (NETWORK)

Used to connect this unit to a wired Ethernet network ([🔗 page 14](#)).

❻ Connect Button (CONNECT)

Used for Wi-Fi setup ([🔗 page 36](#)).

❼ Connect in Status LED

Indicates the status of this unit ([🔗 page 36, 39](#)).

❽ Threaded Mounting Hole

Used to mount this unit on a wall or ceiling.

❾ Safety Wiring Hole

Used to prevent from dropping.



Placing Your Speaker

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

- The speaker 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 speaker 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 (HEOS 3 only)

The HEOS 3 speaker can optionally be mounted on a wall or ceiling using standard ¼ inches (6.35 mm) threaded speaker or camera mounts which support up to 10 lbs (4.5 kg). Please visit your local Denon dealer or electronics retailer for more information about possible wall and ceiling mounting options.

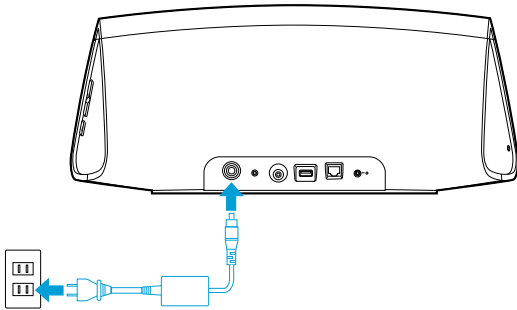
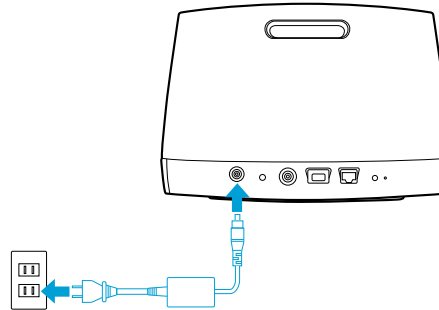
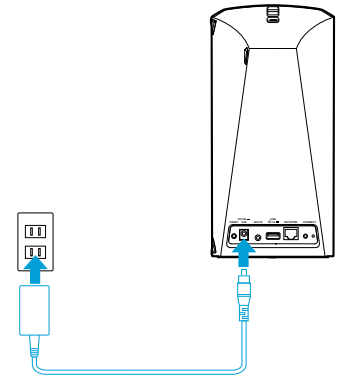
Caution

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 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.

HEOS 7**HEOS 5****HEOS 3**

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 or Google PlayTM store for “HEOS by Denon”.



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:

WARNING

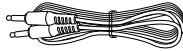
DO NOT connect the Ethernet cable if you are connecting your speaker to a wireless network. If you are connecting the speaker to a wired network, use an Ethernet cable to connect the speaker to your network or router.

- 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 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 speaker, jump to the Troubleshooting section ( page 34).



ADDING MORE HEOS SPEAKERS

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

Adding Wired Speakers

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

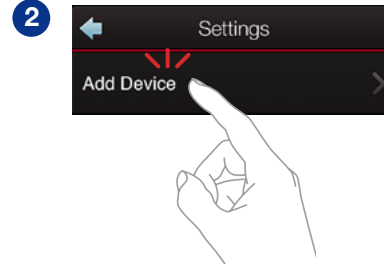
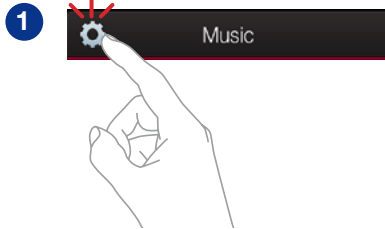
At your convenience, you can assign a name to the speaker to indicate which room you have it placed in.



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

Adding Wireless Speakers

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



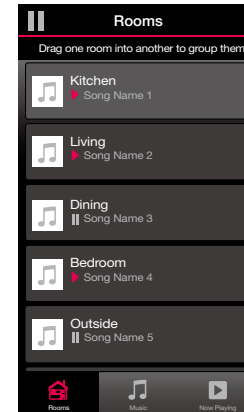
USING YOUR HEOS SPEAKER

Once you have your speaker 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 speaker or the same music perfectly synchronized on all speakers. It's up to you!

Selecting a Room/Speaker

If you have more than one HEOS speaker, you must tell the HEOS system which speaker 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.**



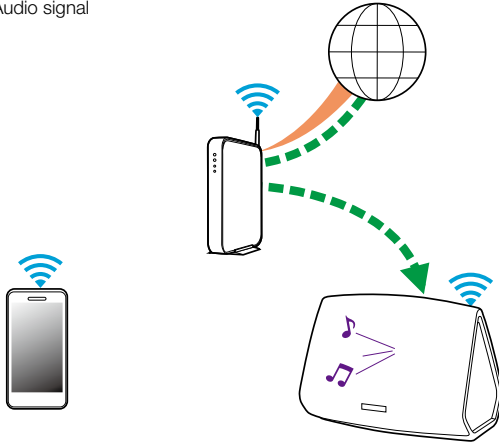
Listening to Radio

The HEOS system includes access to more than 70,000 free internet radio streams from all corners of the globe via the Tuneln radio service. Just select the Tuneln logo from the main Music menu and browse among the 70,000 stations neatly organized into popular categories and select a station that appeals to your mood.

NOTE

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

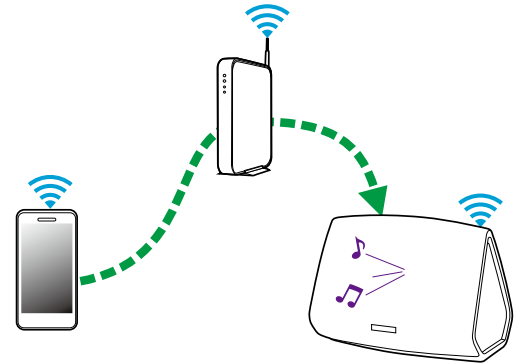
■ ■ ■ Audio signal



Playing music stored on your mobile device

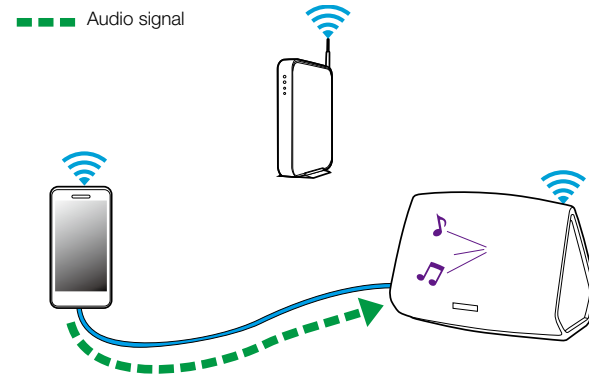
- 1** Tap the “Music” tab.
- 2** Select “This iPhone/iPod/iPad/Phone”.
- 3** Browse the local music on your phone and select something to play.

■ ■ ■ Audio signal



Playing music from 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.
- 2** Select “AUX Input” from the Music tab.
- 3** Select the name of the speaker to which you connected the audio device in step 1.
- 4** Initiate playback on the audio device.
- 5** The sound from the audio device can be played directly on the selected speaker or digitized and sent over your network to other speakers.



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 Sign Out, Edit, or Remove your HEOS account from your HEOS system.**



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.

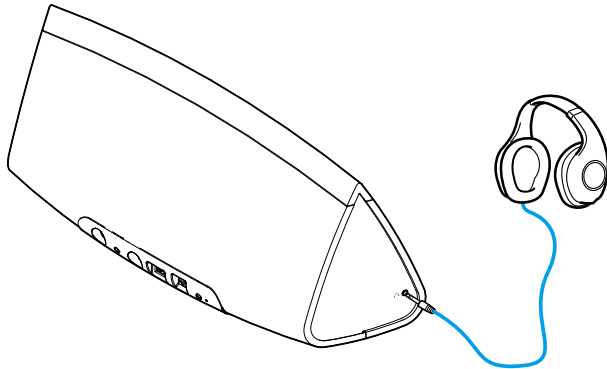
■ Changing Music Service Settings

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



Using Headphones (HEOS 7 only)

You can listen to music through headphones by connecting your favorite headphones to the 3.5 mm headphone jack on the side of the HEOS 7 speaker. The music will stop playing through the built in speakers when you insert your headphones into the jack, and turn back on when you remove the headphones.



NOTE

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

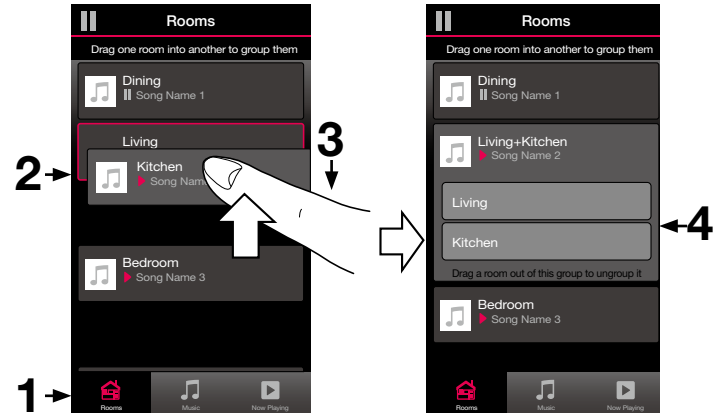


Listening To The Same Music In Multiple Rooms

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

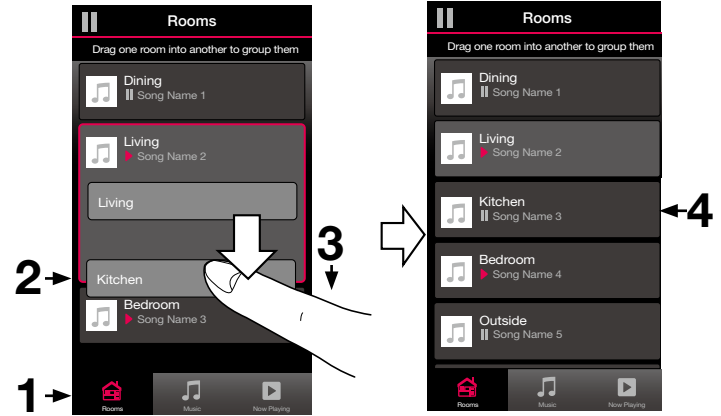
■ Grouping Rooms

- 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 speaker group and both rooms will be playing the same music in perfect sync.



■ Ungrouping Rooms

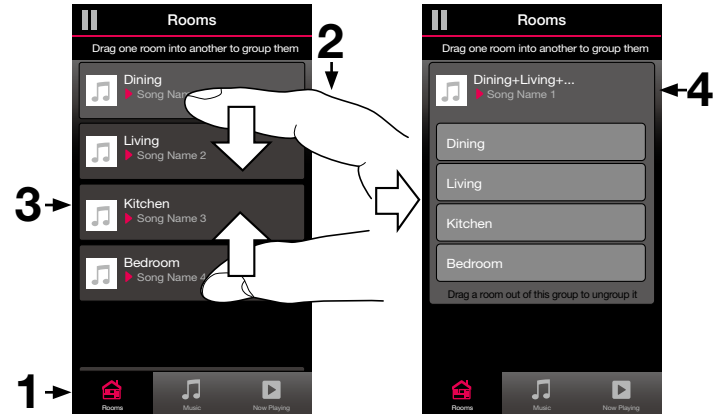
- 1 Tap the “Rooms” tab.
 - 2 Press and hold your finger on room that you want to remove from the group.
- NOTE**
You can not remove the first room that started playing the music before grouping.
- 3 Drag it out of the group and lift your finger.
 - 4 Music will stop playing in the room you dragged out 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.

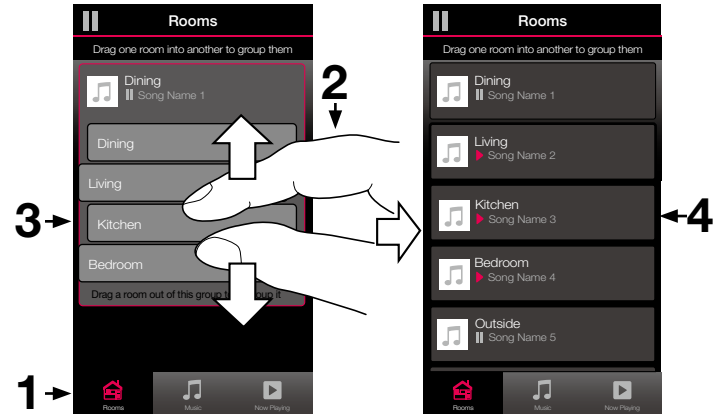
- 1 Tap the “Rooms” tab.
- 2 Place two fingers on the screen over the list of rooms.
- 3 Quickly pinch your two fingers together and release.
- 4 All of your rooms will be joined together and begin playing the same music in perfect sync.



■ 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).



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.

■ Play Now

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

■ Play Now and 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.

■ Repeat and Shuffle Playback

You can control how the play queue plays the music that you have added by using the Repeat and Shuffle controls. 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.






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 Trash  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.**




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 speakers.
- 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** Select the **Save**  button 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.
- 3** Select the Reset button to restore the default settings.

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".
- 3** Scroll down to see all of the options for
 - a.** Network Interface (wired or wireless)
 - b.** Wireless network settings
 - c.** Manual or static IP address for your speaker
- 4** Select Save Settings to apply the new settings or Cancel Changes to revert to the previous settings.



■ Firmware Upgrade

- 1** Select “Advanced”.
- 2** Select “Firmware Upgrade”.
- 3** Enable or disable automatic firmware upgrades.
- 4** Manually check for a firmware upgrade.
- 5** Select Save Settings to apply the new settings or Cancel Changes to revert to the previous settings.

■ About

Viewing Technical Details About the Speaker.


- 1** Select “Advanced”.
- 2** Select “About”.
- 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. When such updates become available, you will be notified when you open the HEOS app. Follow the instructions on the screen to update the speaker and/or your controller App.


In the event that you wish to manually initiate an update, please follow 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 “Check for Update”.
- 3** Follow the instructions on screen to install any available updates to your HEOS system.



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 Setting” to display a list the available settings.

Submitting 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 including speakers, bridges, and controllers.

NOTE

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

Collecting Anonymous Usage Data

Denon constantly strives to provide its customers with the best sounding and best performing products possible. To this end, we collect anonymous usage data about our products (not our customers) to help us constantly improve our products. This data is never shared with any 3rd parties. You can choose not to send this anonymous data by disabling the Usage Data setting.



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 new Local Music source allowing other HEOS controller apps to browse and play music from the your device.

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 Modes

■ Network Standby

To save power, the speaker 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 speaker is selected and playing music. There is no visible indicator or LED that will show that the speaker is in Network Standby as it is a fully automatic function.

■ Deep Standby

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

■ Off

To completely turn off the power to the speaker you must remove the mains plug from the back of the speaker.



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. • 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. 	<p>13</p> <p>14</p>

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. • 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. • 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. • If your speakers are located far away from your router, consider adding a Wireless Range Extender like the HEOS Extend. • 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. 	<p>11</p> <p>13</p> <p>11</p> <p>5</p> <p>5</p>



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 (specially if they are streaming video). 	<u>5</u>
<ul style="list-style-type: none"> • Make sure your speakers are within range of your wireless network. 	<u>5</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>5</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>17</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. 	-



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"> 1. Press the WPS button on your router. 2. Within 2 minutes, Press and Hold the Connect button on the rear panel of the HEOS speaker for 5 seconds. 3. The LED on the front of the speaker will flash green for several seconds as it connects to your WPS router. 4. When the connection is complete, the LED on the front of the speaker will turn solid blue. 	5

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 blue.</p>	–

Restoring the Speaker to Factory Defaults

Solution	Refer to Page
<p>Restoring the speaker 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> <p>All settings will be erased and the software will likely be downgraded!</p> <p>To restore your speaker to the factory defaults, unplug the power cable from the back of the speaker. 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>	–

* 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 services in your area or visit HEOSbyDenon.com



SPECIFICATIONS

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	---











NOTE

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











Status LED Table








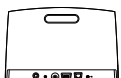


[Example] HEOS 5

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

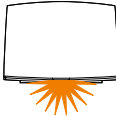

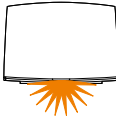

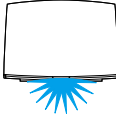

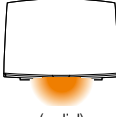



Speaker Operation	Description	Front LED Action	Rear LED Action
Setup	Not connected	 (solid)	 (solid)
	Connect button was pressed	 (blink)	 (solid)
	Cable connection is OK	 (solid)	 (solid)
	Connecting to your network	 (blink)	 (off)



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

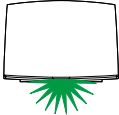








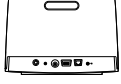


Speaker Operation	Description	Front LED Action	Rear LED Action
Reset	Soft reset - Clear user settings	 <p>(fast blink)</p>	 <p>(solid)</p>
	Hard reset - Factory restore	 <p>(blink)</p>	 <p>(solid)</p>
Rebooting		 <p>(blink)</p>	 <p>(off)</p>
Ready-Not Configured		 <p>(solid)</p>	 <p>(solid)</p>



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



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



Speaker Specifications

■ HEOS 7

Wireless LAN

Network type (wireless LAN standards): Conforming to IEEE 802.11a/b/g/n

Used frequency range: 2.412 GHz – 2.472 GHz, 5 GHz

General

Operating temperature: 41 °F – 95 °F (5 °C – 35 °C)

Power supply: AC 100 – 240 V, 50/60 Hz

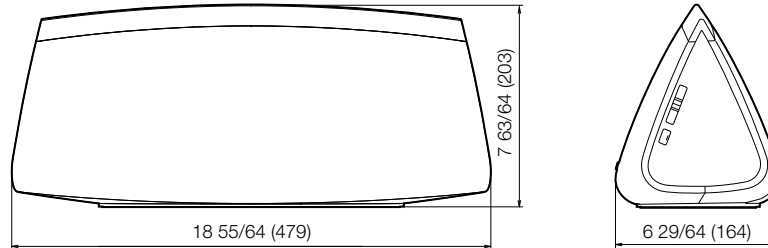
Power consumption: 32 W

Power consumption in network standby mode: 4 W

Power consumption in standby mode: 0.45 W

Dimensions

Unit : in. (mm)



Weight : 9 lbs 14.7 oz (4.5 kg)

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



■ HEOS 5

Wireless LAN

Network type (wireless LAN standards): Conforming to IEEE 802.11a/b/g/n

Used frequency range: 2.412 GHz – 2.472 GHz, 5 GHz

General

Operating temperature: 41 °F – 95 °F (5 °C – 35 °C)

Power supply: AC 100 – 240 V, 50/60 Hz

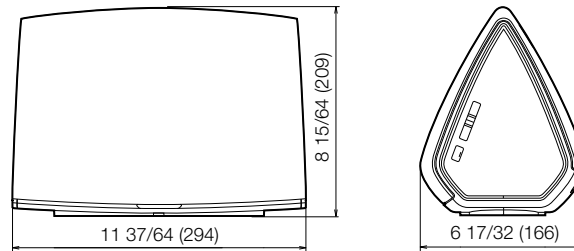
Power consumption: 23 W

Power consumption in network standby mode: 4 W

Power consumption in standby mode: 0.3 W

Dimensions

Unit : in. (mm)



Weight : 6 lbs 9.8 oz (3.0 kg)

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



■ HEOS 3

Wireless LAN

Network type (wireless LAN standards): Conforming to IEEE 802.11a/b/g/n

Used frequency range: 2.412 GHz – 2.472 GHz, 5 GHz

General

Operating temperature: 41 °F – 95 °F (5 °C – 35 °C)

Power supply: AC 100 – 240 V, 50/60 Hz

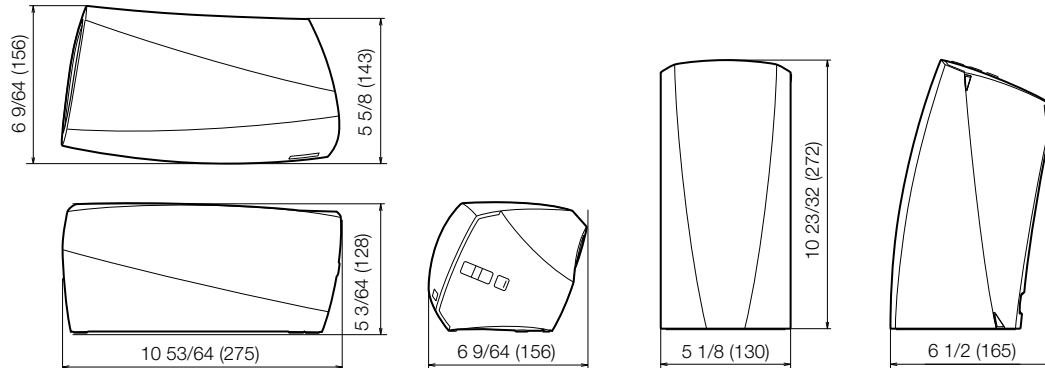
Power consumption: 22 W

Power consumption in network standby mode: 4 W

Power consumption in standby mode: 0.3 W

Dimensions

Unit : in. (mm)



Weight : 4 lbs 3.0 oz (1.9 kg)

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Open Source Used	Version
bridge-utils	2.8
busybox	1.21.1
ebtables	2.0.10-4
Linux kernel	2.6.30
mtd-utils	1.4.3
ntfs-3g_ntfsprogs	2011.4.12
ntpclient	2007
u-boot	2011.06
wireless-tools	version 29

□ LGPL

Open Source Used	Version
ffmpeg	0.8.3
glibc	2.9
libmms	0.6.2

□ curl-7.24.0

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psdint.h-0.1.12

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❑ ri78flash 2000.3.1

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❑ sqlite 2003.5.7

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❑ **strncpy.c , v1.11**

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❑ **taglib-1.5**

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❑ **tinymce 2002.4.3**

www.sourceforge.net/projects/tinymce
Original file by Yves Berquin.

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zlib

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

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

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