

DENON[®]

DENON HOME SUBWOOFER

WIRELESS SUBWOOFER

Owner's Manual



What you can do with this unit	3
Accessories	4
Part names and functions	5
Front panel	5
Rear panel	6
Connections	
Positioning	7
Connecting the power cords	8
Getting the HEOS App	9
Setting up first HEOS built-in device	10
Adding more HEOS built-in devices	11
Connecting devices	12
Pairing this unit to a HEOS built-in device	12
Unpairing this unit	14
Settings	
Settings	15
Adjusting the subwoofer output level	15
Adjusting the low pass filter	15
Adjusting the phase	16
Adjusting the status light brightness	16

Tips

Troubleshooting	17
The power turns off and the status LED flashes in red	18
Connecting to a WPS network	18
Resetting factory settings	19
Resetting the firmware to the default state	20

Status LED

Status LED table	21
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Appendix

Power management	27
Power modes	27
Supported file types and codecs	28
Trademark information	29
Specifications	30
Licence	32



Thank you for purchasing this Denon product.

To ensure proper operation, please read this owner's manual carefully before using the product.

After reading this manual, be sure to keep it for future reference.

What you can do with this unit

This subwoofer can be wirelessly connected to a DENON HOME series sound bar, speakers, or any other device equipped with the HEOS wireless audio system. By connecting to these devices, you can enjoy powerful bass sound.



Accessories

Check that the following parts are supplied with the product.



Quick Start Guide



Safety Instructions



Warranty
(North America model only)



Power cord
(for Europe model)

or

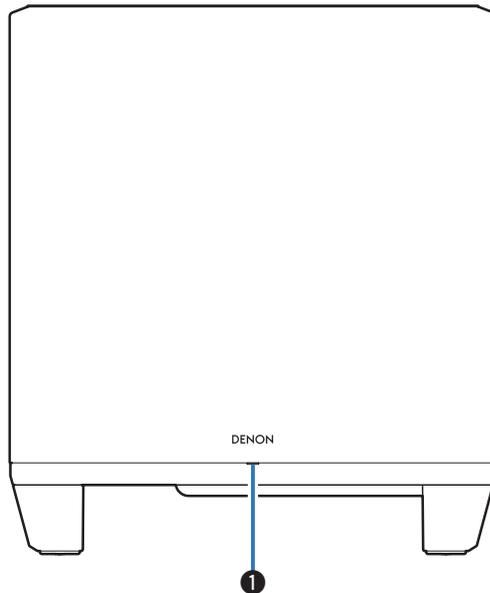


Power cord
(for North America model)



Part names and functions

Front panel

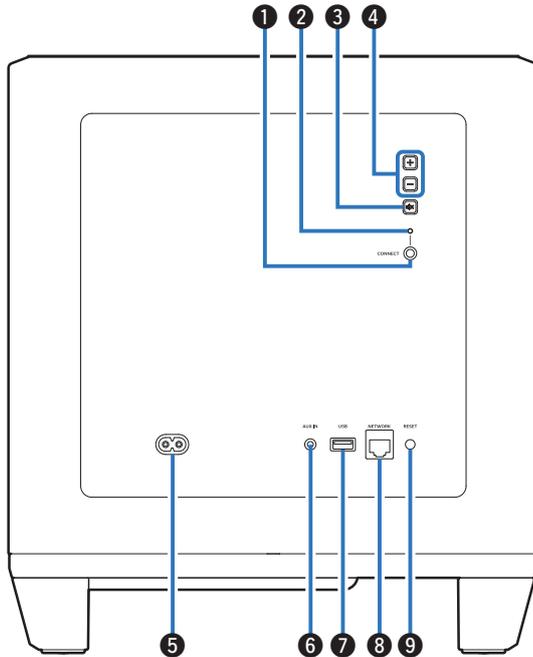


① Status LED

Please refer to the “Status LED table” for LED color and state meaning.
(☞ p. 21)



Rear panel



1 CONNECT button

Used for Wi-Fi setup.

2 Connect in status LED

Indicates the status of this unit. (👉 p. 21)

3 Mute button (🔇)

Mutes or unmutes the HEOS built-in device's volume.

4 Volume up/down buttons (+, -)

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

5 AC inlet

Used to connect the power cord. (👉 p. 8)

6 AUX jack (AUX IN)

Use a commercially available 3.5 mm stereo audio cable to connect a TV with an AUX audio output connector.

7 USB port

Used to connect USB storage devices.

8 NETWORK connector

Used to connect this unit to a wired Ethernet network. (👉 p. 11)

9 RESET button

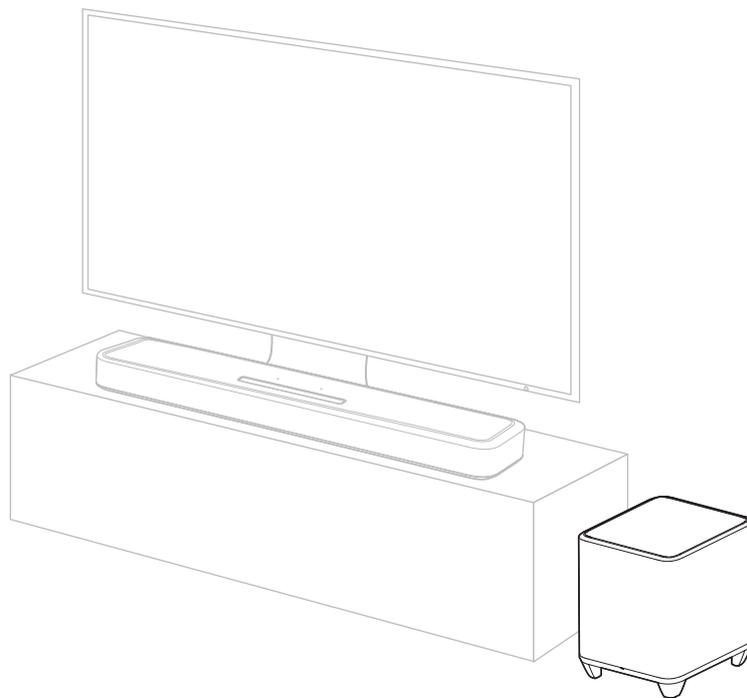
Various settings are reset to the factory default values. (👉 p. 19)



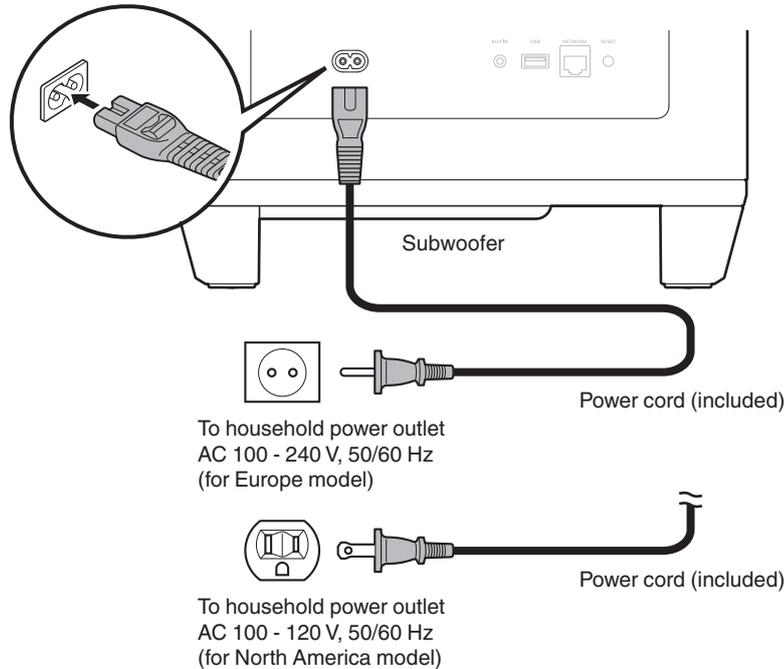
Positioning

You should position this unit in a convenient location near the speakers you are connecting it to.

- This unit must be within range of your wireless network.



Connecting the power cords



Getting the HEOS App

You can use many online music streaming services from the HEOS App. Depending upon your geographical location, there are several options to choose from.

Download the HEOS App for iOS or Android by searching App Store, Google Play store or Amazon Appstore for "HEOS".



Setting up first HEOS built-in device

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



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

1 Make sure your mobile device is connected to your wireless network (the same network this unit connected to).

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



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

2 Launch the HEOS App on your mobile device.



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

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



Adding more HEOS built-in devices

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

■ Adding wired HEOS built-in devices

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

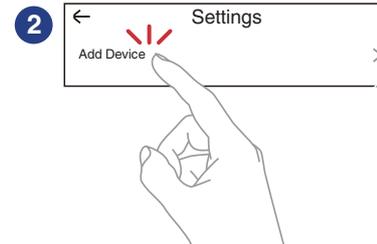
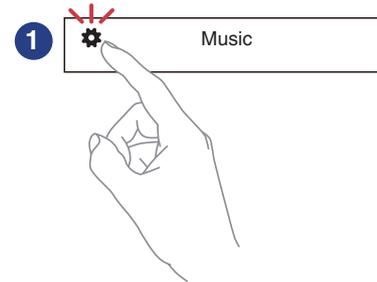
At your convenience, you can assign a name to the HEOS built-in device to indicate which room you have it placed in.



- 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 built-in devices

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



Connecting devices

Pairing this unit to a HEOS built-in device

This unit needs to be paired with another HEOS built-in device.

Pairing can be done from the “My Devices” menu or from the “Rooms” menu.

■ Pairing this unit to HEOS built-in device from “My Devices” menu.

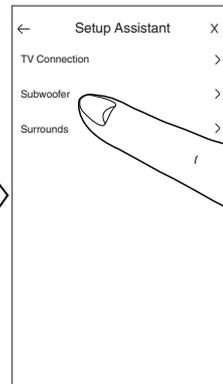
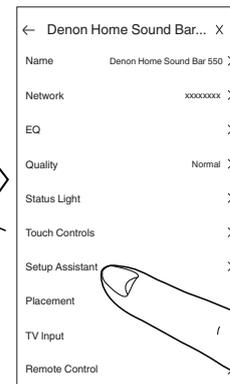
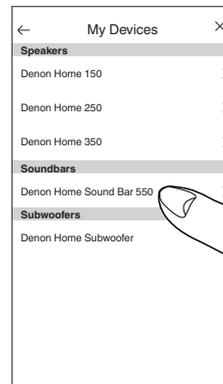
This section describes how to pair with the Denon Home Sound Bar 550 as an example.

- 1** Select the Settings  icon located in the upper left corner of the main “Music” menu to display the Settings menu.
- 2** Select the Denon Home Sound Bar 550 from “My Devices”.
- 3** Select “Setup Assistant”.
- 4** Select “Subwoofer”.

Follow the instructions in the menu to complete the setup.

NOTE

- This unit can not playback any audio unless it is paired with some other HEOS built-in device.
- This unit needs to connect your wireless network before pairing.



■ Pairing this unit to HEOS built-in device from “Rooms” menu.

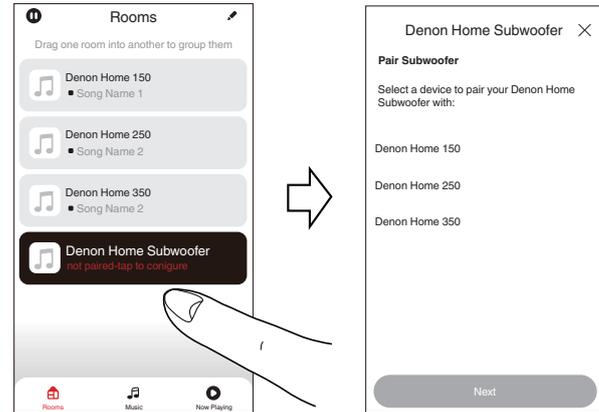
1 Select the currently unpaired this unit.

2 Select the HEOS built-in device to be paired.

This unit will be grouped together with it and will play the deep bass of the added HEOS built-in device.

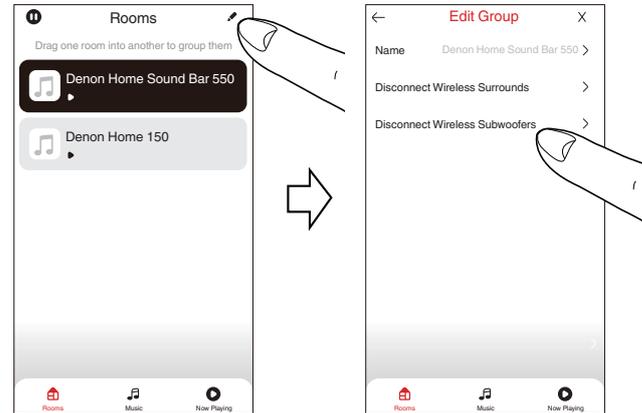
NOTE

- This unit can not playback any audio unless it is paired with some other HEOS built-in device.
- This unit needs to connect your wireless network before pairing.



Unpairing this unit

- 1 Tap the pencil  icon in the upper right corner of the "Rooms" menu.
- 2 Tap the HEOS built-in device from which to unpair this unit.
- 3 Select "Disconnect Wireless Subwoofers".



Settings

You can adjust specific settings for Denon Home Subwoofer 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 built-in devices.
- 3** Select the HEOS built-in device you want to adjust.

Adjusting the subwoofer output level

- 1** Select “Level”.
- 2** Adjust the level up or down to compensate for the subwoofer output level.



- You can also configure settings by tapping  in the Now Playing screen.

Adjusting the low pass filter

- 1** Select “Low Pass Filter”.
- 2** Set the frequency cutoff point.

**Optimized
(recommended)**

Select when using with HEOS built-in speakers. Optimized values are set to each of the speakers.

**80Hz - 250Hz
(for experts)**

When using with other speakers, configure settings that match the characteristics of the combined speakers.



Adjusting the phase

- 1 Select “Phase”.
- 2 Select “Normal” (default) or “180°”.



- For normal configuration, use “Normal”.
- The bass volume may increase when switched to “180°” due to the installation location of the Subwoofer.

Adjusting the status light brightness

- 1 Select “Status Light”.
- 2 Adjust the brightness.



Troubleshooting

If a problem should arise, first check the following:

1. **Are the connections correct?**
2. **Is the set being operated as described in the owner's manual?**
3. **Are the other devices operating properly?**

If this unit does not operate properly, check the corresponding symptoms in this section.

If the symptoms do not match any of those described here, consult your dealer as it could be due to a fault in this unit. In this case, disconnect the power immediately and contact the store where you purchased this unit.



The power turns off and the status LED flashes in red

The power turns off and the status LED flashes in red.

- The protection circuit has been activated due to a rise in temperature within this unit. Unplug the power cord, wait about an hour until this unit cools down sufficiently, and then turn the power on again.

Connecting to a WPS network

Connecting to a WPS network.

- If your wireless router support WPS (Wi-Fi Protected Setup™) this unit can optionally connect to your network using the push button method by following these steps:

(Wi-Fi Protected Setup™ is trademarks of Wi-Fi Alliance.)

1. Press the WPS button on your router.
2. Within 2 minutes, press and hold the CONNECT button on the rear panel of this unit for 5 seconds.
3. The LED on the front of this unit 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 this unit will turn solid blue.



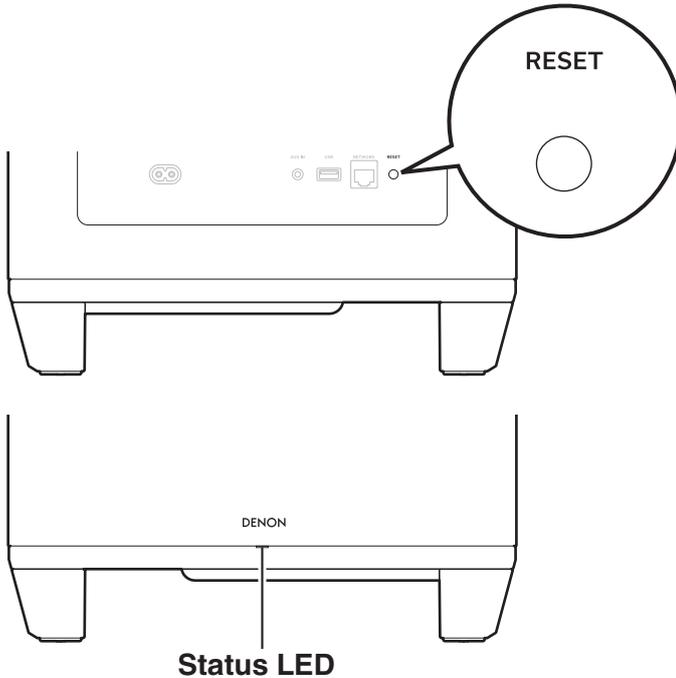
Resetting factory settings

When the network function or this unit do not operate correctly, the problem may be solved by resetting factory settings.

Resetting this unit will clear out the wireless network info, EQ, and name but retain it's current software. You will have to use "Settings" - "Add Device" from the HEOS App to reconnect this unit to your home network before it can be used.

- 1 Press and hold the RESET button on this unit for 5 seconds.**

The status LED blinks in amber and initiates a reset.

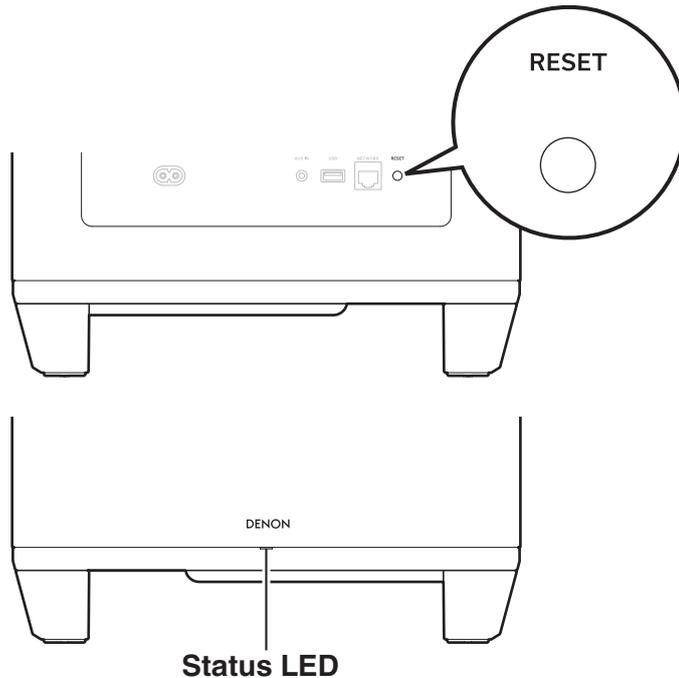


Resetting the firmware to the default state

When the network function or this unit do not operate correctly, the problem may be solved by resetting the firmware to the default state.

- It is confirmed that the network connection has no problem, but the unit cannot connect to the Internet.
- The solution described in “Resetting factory settings” does not work. (👉 p. 19)

For such cases, perform the following operation:



- 1 Unplug the power cord from the power outlet.**
- 2 Plug in the power cord while holding down the RESET button.**
- 3 Release the button after the status LED starts to blink in amber.**

When the status LED switches from blinking amber to solid, the recovery process is complete.

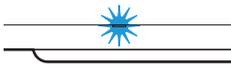
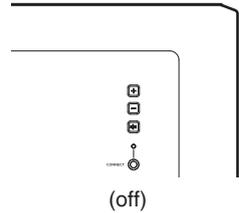
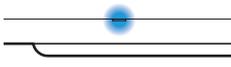
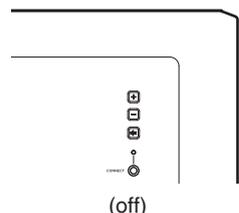
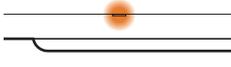
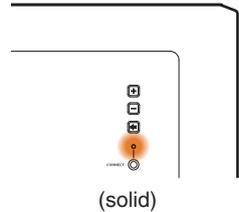


- Since this process includes a firmware recovery, it takes some time to complete.
- This process will clear out all the information that you set.
- Do not unplug the power cord until the entire process completes.
- If the problem is not solved after performing this operation, contact our customer service center.

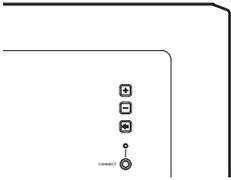
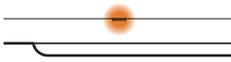
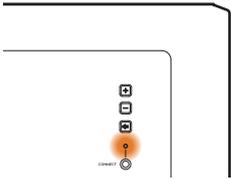
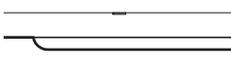
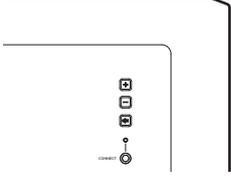


Status LED table

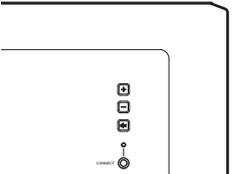
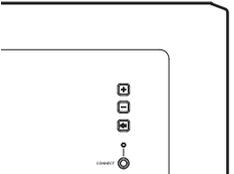
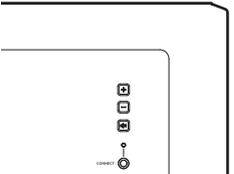
The LEDs on the front panel and rear panel change to indicate the current status.

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

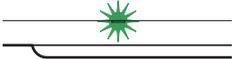


Status	Front LED action	Rear LED action	Description
Quick start mode	 <p>(dimmed solid)</p>	 <p>(off)</p>	<p>This unit is in quick start mode (Connected to your network). (👉 p. 27)</p>
	 <p>(dimmed solid)</p>	 <p>(dimmed solid)</p>	<p>This unit is in quick start mode (Not connected to your network). (👉 p. 27)</p>
	 <p>(off)</p>	 <p>(off)</p>	<p>This unit is in quick start mode (Paired with another HEOS built-in device, but status of not being connected to your network continues for 20 minutes or more) (👉 p. 27)</p>

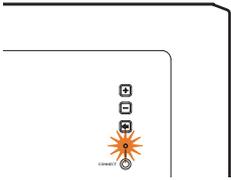
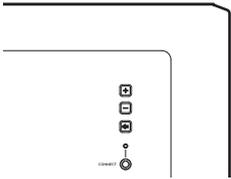


Status	Front LED action	Rear LED action	Description
Deep standby mode	 <p>(off)</p>	 <p>(off)</p>	Power is off, or this unit is in deep standby mode. (🔍 p. 27)
Volume setting	 <p>(quick blink)</p>	 <p>(off)</p>	Volume is being adjusted.
	 <p>(slow blink)</p>	 <p>(off)</p>	This unit is muted.

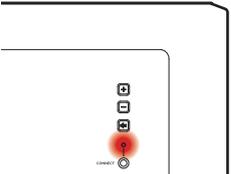
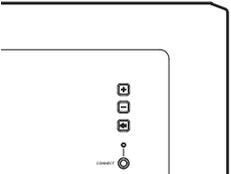
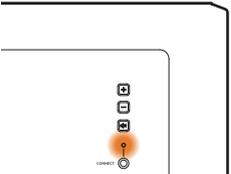


Status	Front LED action	Rear LED action	Description
WPS	 <p>(fast blink)</p>	 <p>(fast blink)</p>	This unit is connecting to the network via WPS.
	 <p>(solid)</p>	 <p>(off)</p>	This unit is connected to the network via WPS.
	 <p>(for 3 sec. solid)</p>	 <p>(solid)</p>	WPS has timed out.



Status	Front LED action	Rear LED action	Description
Firmware update	 <p>(blink)</p>	 <p>(blink)</p>	Firmware is being updated.
Firmware update	 <p>(slow blink (Not fade))</p>	 <p>(off)</p>	There is a firmware error. Check your usage environment, relaunch the app, then try to update the firmware again.



Status	Front LED action	Rear LED action	Description
Error	 <p>(solid)</p>	 <p>(solid)</p>	<p>There was a setup error. Check your usage environment, then follow the correct procedure to try setup again. If the error occurs again, restore factory settings and try setup again. (☞ p. 19)</p>
	 <p>(fast blink)</p>	 <p>(off)</p>	<p>There is a hardware error. Unplug the power cord, wait a little while, then plug the power cord back in.</p>
Reset	 <p>(fast blink)</p>	 <p>(solid)</p>	<p>Factory settings have been restored.</p>



Power management

Power modes

■ Quick start mode

This unit automatically enters quick start mode to save power in the following cases. During quick start mode, this unit operations cause the power to turn on.

For more information about the status LED during quick start mode, refer to “Status LED table”. (📖 p. 22)

❑ Ethernet

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

❑ Wi-Fi

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

❑ USB

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

❑ AUX input

After around 20 minutes of no audio.

■ 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 quick start mode.

Status LED will turn off during Deep Standby.

To wake this unit from Deep Standby, you must press the volume or mute buttons which will immediately turn on the front panel LED.



- You also press the  button for 5 seconds, this unit enters the deep standby.

■ Off

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



Supported file types and codecs

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



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



Trademark information



The Wi-Fi CERTIFIED logo is a registered trademark of the Wi-Fi Alliance.

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



Specifications

■ General

Operating temperature:	41 °F - 95 °F (5 °C - 35 °C)
Power supply:	AC 100 – 240 V, 50/60 Hz (for Europe model) AC 100 – 120 V, 50/60 Hz (for North America model)
Power consumption:	50 W
Power consumption in quick start mode:	1.8 W (Wi-Fi) 1.3 W (Ethernet)
Power consumption in deep standby mode:	0.1 W

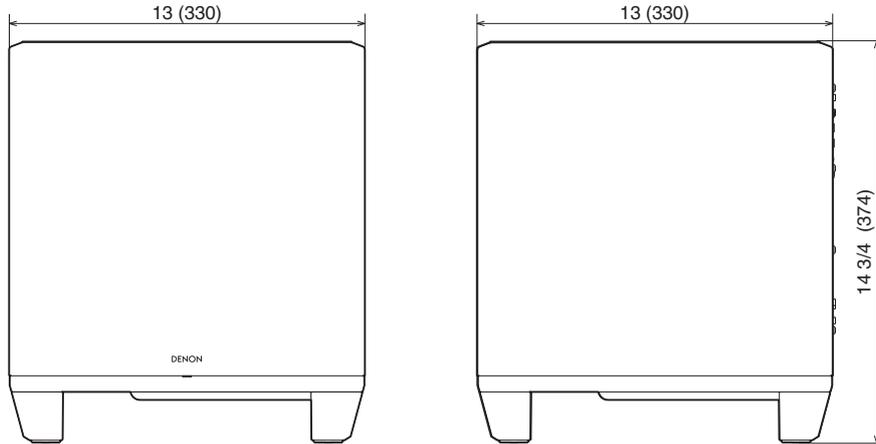
■ Wireless LAN section

Network type (wireless LAN standard):	Conforming to IEEE 802.11a/b/g/n/ac (Wi-Fi® compliant)*
Used frequency range:	2.4 GHz, 5 GHz

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



■ Dimensions (Unit : in. (mm))



■ Weight: 27 lbs 9 oz (12.5 kg)



Licence

This unit uses source code programmed under GPL or LGPL.

The licenses used are listed in the WEB manual.

<http://manuals.denon.com/DenonHomeSubwoofer/EU/EN/>



DENON®

www.denon.com

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