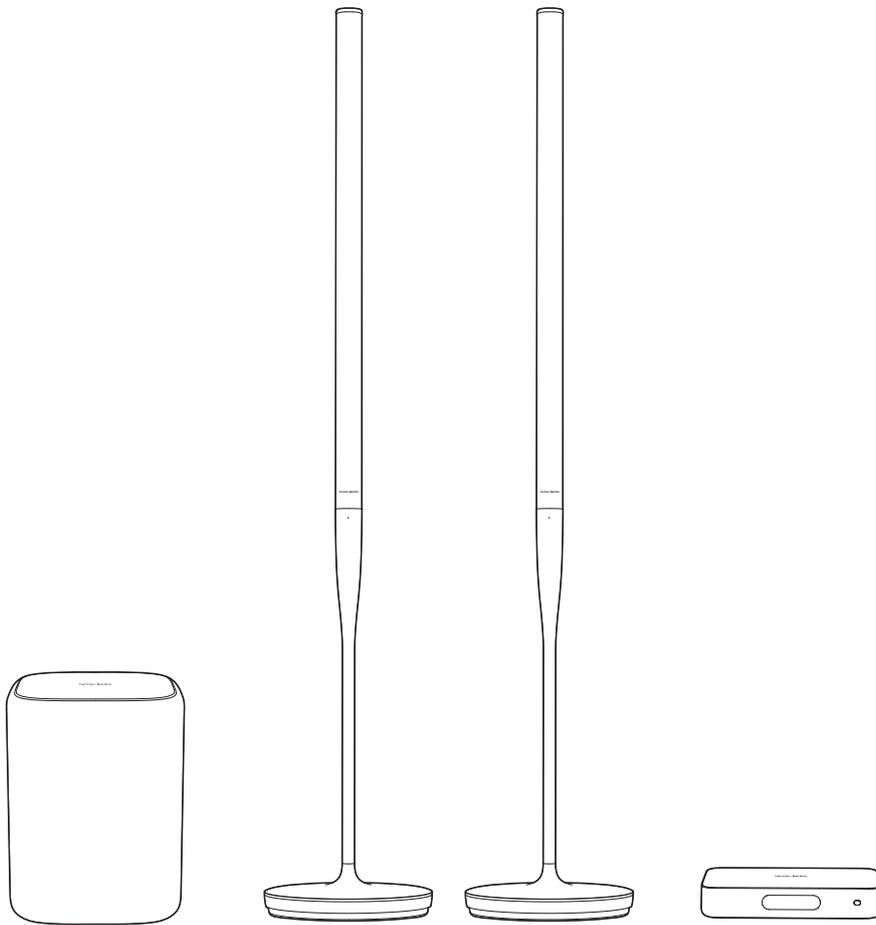


RADIANCE 2400



OWNER'S MANUAL

/ IMPORTANT SAFETY INSTRUCTIONS

Verify Line Voltage Before Use

The RADIANCE 2400 has been designed for use with 100-240 volt, 50/60 Hz AC current. Connection to a line voltage other than that for which your product is intended can create a safety and fire hazard and may damage the unit. If you have any questions about the voltage requirements for your specific model or about the line voltage in your area, contact your selling dealer before plugging the unit in to a wall outlet.

Do Not Use Extension Cords

To avoid safety hazards, use only the power cord supplied with your unit. We do not recommend that extension cords be used with this product. As with all electrical devices, do not run power cords under rugs or carpets, or place heavy objects on them. Damaged power cords should be replaced immediately by an authorized service center with a cord that meets factory specifications.

Handle the AC Power Cord Gently

When disconnecting the power cord from an AC outlet, always pull the plug; never pull the cord.

If you do not intend to use your speaker for any considerable length of time, disconnect the plug from the AC outlet.

Do Not Open the Cabinet

There are no user-serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your warranty. If water accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service center.

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/ INTRODUCTION

This manual includes information of the RADIANCE 2400 wireless home theater system. We encourage you to take a few minutes to read this manual, which describes the product and includes step-by-step instructions to help you set up and get started. Read and understand all the safety instructions before using your product.

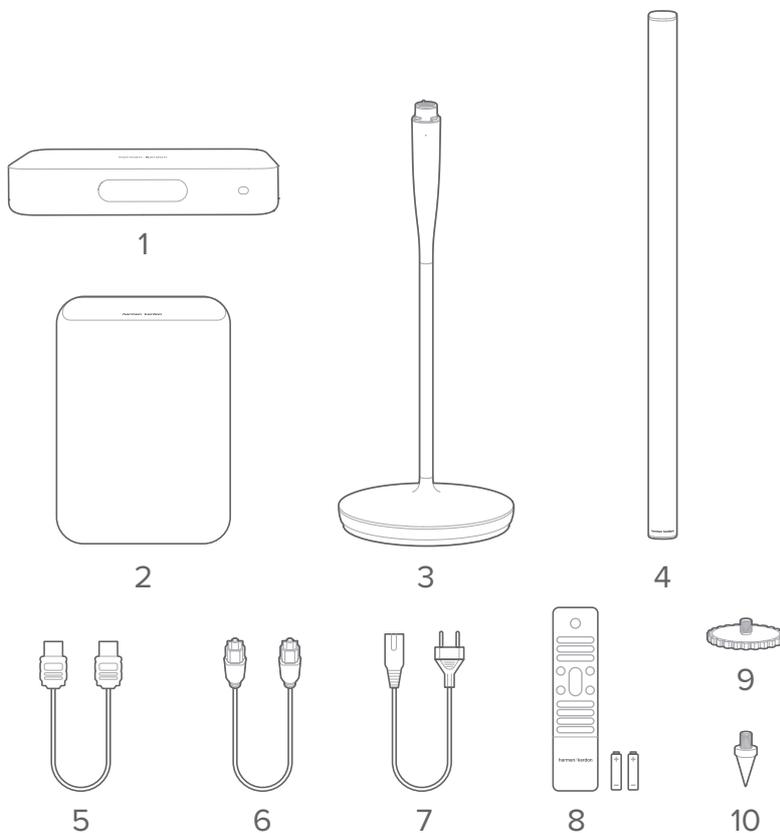
The RADIANCE 2400 may have an important software update available. Please follow the instructions to connect the product to Wi-Fi to ensure that your product has the most recent software updates.

Design and specifications are subject to change without notice.

If you have any questions about these products, their installation or their operation, please contact your Harman Kardon retailer or customer service, or visit us at www.harmankardon.com

WHAT'S IN THE BOX

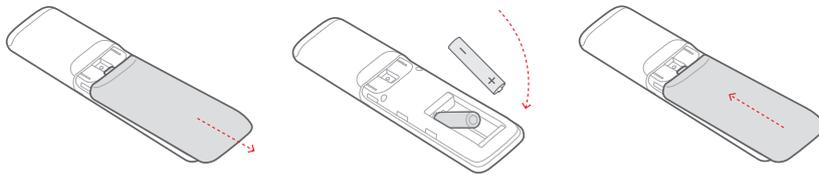
Carefully unpack the box and check if the following parts are included. If any part is damaged, do not use it, contact your Harman Kardon retailer or customer service.



1. Digital hub
2. Subwoofer
3. Tower speaker (stand) x 2
4. Tower speaker (upper part) x 2
5. HDMI cable
6. Optical cable
7. *Power cord x 4
8. Remote control with two AAA batteries
9. Adjustable rubber foot x 8
10. Carpet spike x 8

* Power cord quantity and plug type vary by regions.

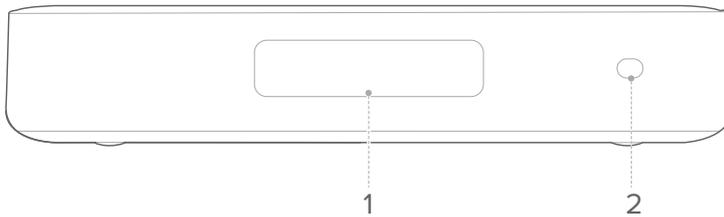
Inserting batteries before using the remote control (AAA batteries x 2)



Slide the battery cover in the direction of the arrow until it is completely removed. Insert 2 AAA batteries (1.5V) oriented so that their polarity is correct. Slide the battery cover back into position.

PRODUCT OVERVIEW

Front Panel - Digital Hub



1. Touch screen

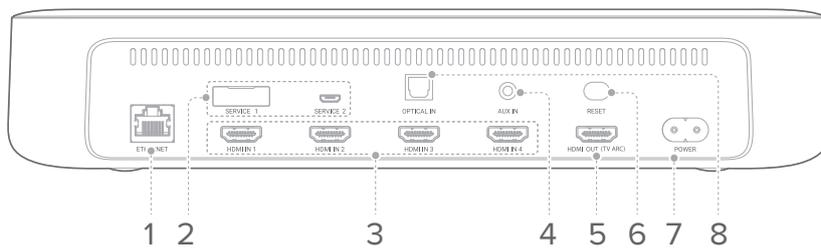
- : Wi-Fi signal indicator.
- : Press to customize speaker setup.
- : Press to select a source (Bluetooth / Aux / HDMI / Optical).
- : Press to customize the audio settings.
- : Press to customize the general settings.
- : Press to check the system information of this product.

2. Infrared (IR) sensor

NOTE:

- The RADIANCE 2400 remote control operates on Bluetooth and does not require line-of-sight with the IR sensor. You may also operate the RADIANCE 2400 with a 3rd-party TV IR remote control (See “TV remote control learning”).

Back Panel - Digital Hub



1. ETHERNET

- May be used to connect to the Internet (RJ45 connector).

2. SERVICE 1 / SERVICE 2 (for technical personnel only)

3. HDMI IN 1 / HDMI IN 2 / HDMI IN 3 / HDMI IN 4

- Connect to the HDMI output on a digital device.

4. AUX IN

- Connect to an audio device (3.5 mm jack).

5. HDMI OUT (TV ARC)

- Connect to the HDMI (ARC) input on your TV.

6. RESET

- Press and hold for 5 seconds to restore the factory settings.

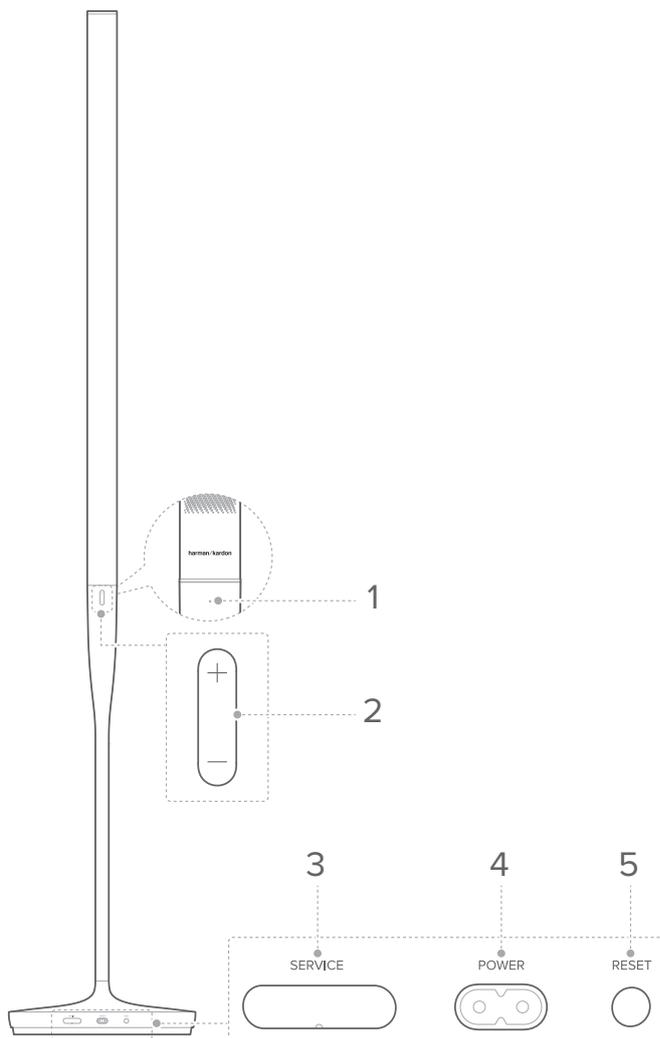
7. POWER

- Connect to the AC wall outlet.

8. OPTICAL IN

- Connect to an optical audio output on your TV or a digital device.

Tower speakers



1. Connection status indicator

○	Solid white	Connected to the digital hub
⦿	Fast flashing white	Pairing / reconnecting
⦿	Slow flashing white	System software updating

2. +/-

- Increase or decrease the volume level.

3. SERVICE (for technical personnel only)

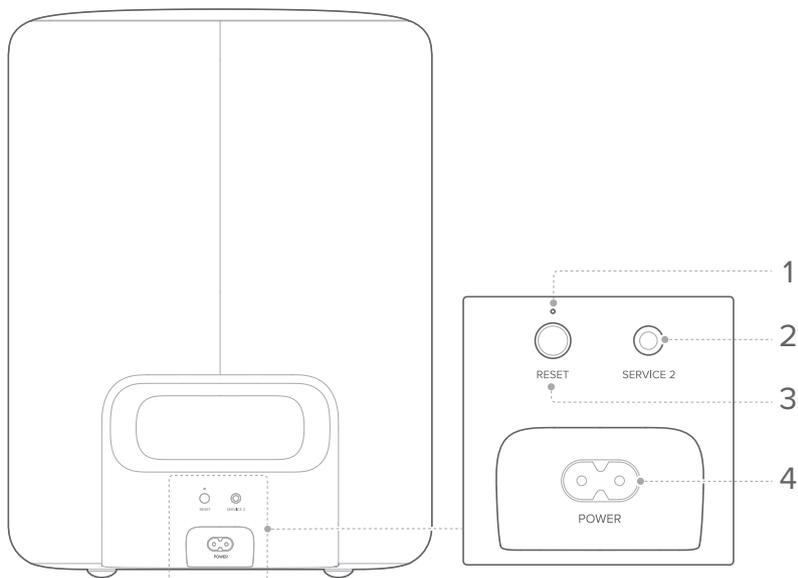
4. POWER

- Connect to the AC wall outlet.

5. RESET

- Press and hold for 5 seconds to restore the factory settings.

Subwoofer



1. Connection status indicator

○	Solid white	Connected to the digital hub
◉	Fast flashing white	Pairing / reconnecting
◐	Slow flashing white	System software updating

2. SERVICE 2 (for technical personnel only)

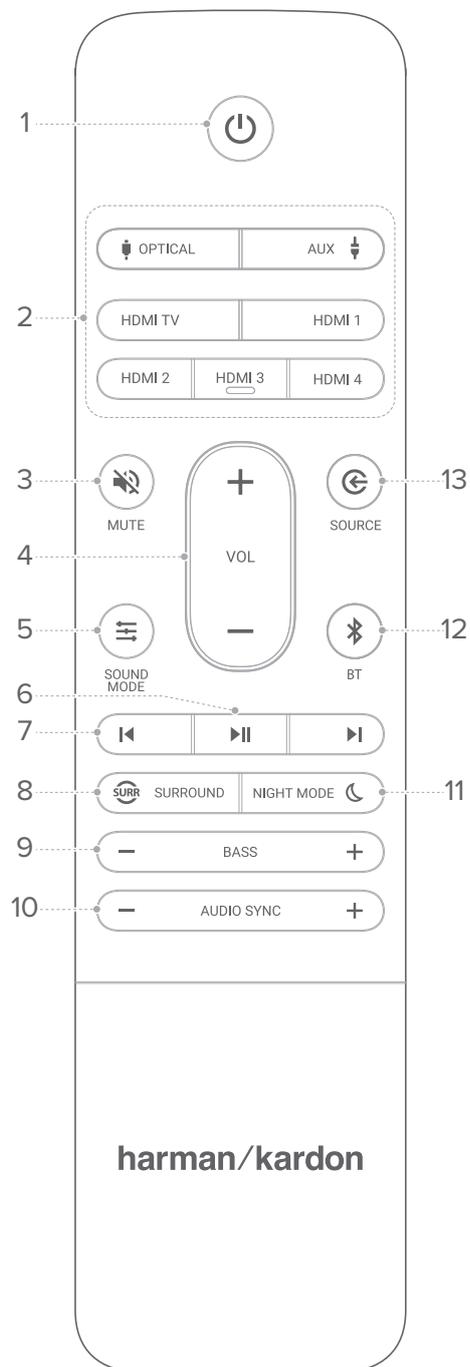
3. RESET

- Press and hold for 5 seconds to restore the factory settings.

4. POWER

- Connect to AC wall outlet.

Remote Control



1. **⏻ (Power)**
 - Power on or switch to standby.
2. **Source zone**
 - Select an input source: **📡 OPTICAL / AUX 📡 / HDMI TV / HDMI 1 / HDMI 2 / HDMI 3 / HDMI 4.**
3. **🔇 MUTE**
 - Mute or unmute the audio.
4. **VOL + / -**
 - Increase or decrease the volume level.
 - Press and hold to continually increase or decrease the volume.
5. **☰ SOUND MODE**
 - Access or exit sound mode options (**Standard / Music / Movie / News**).
6. **▶||**
 - Play or pause Chromecast built-in, Airplay or Bluetooth playback.
7. **⏮/▶**
 - Skip to the previous or next track for Chromecast built-in, AirPlay or Bluetooth playback.
8. **📡 SURROUND**
 - Turn the surround sound effect on or off.

9. BASS - / +

- Turn bass down or up.

10. AUDIO SYNC - / +

- Decrease or increase audio sync delay if the video and audio synchronization is not correct.

11. NIGHT MODE 

- Turn the night mode (Dynamic Range Control) on or off for Dolby Digital tracks.

12.  BT

- Press to select the Bluetooth source.

13.  SOURCE

- Select an input source: **HDMI TV / HDMI 1 / HDMI 2 / HDMI 3 / HDMI 4 /  OPTICAL / AUX  / Bluetooth.**

NOTE:

- The remote control operates over Bluetooth and does not require line of sight with the Digital Hub. If the remote control is unresponsive, please see the Troubleshooting section.

/ PLACEMENT

NOTE:

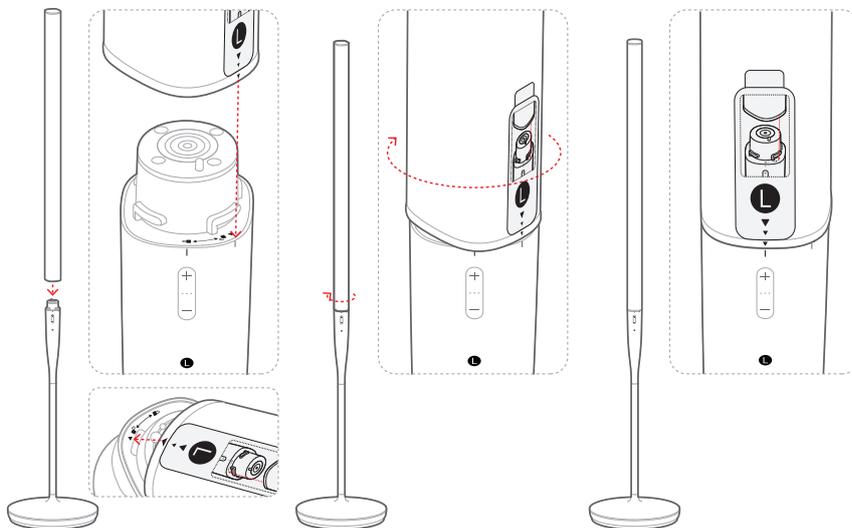
- Make sure there are AC outlets nearby.

Digital Hub Placement

Place the digital hub near your TV. Do not place anything on top of the digital hub.

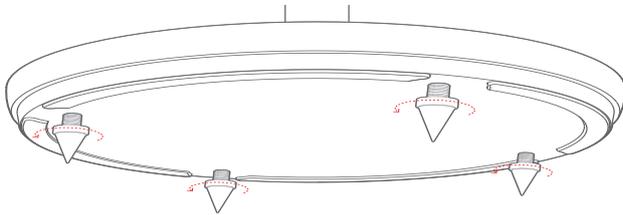
Tower Speaker Assembly

Align the upper part of each speaker with the stand and turn clockwise until locking into place. Remove the label on the tower.



Using the Supplied Spikes (Optional)

Eight metal spikes are supplied for use when you place the tower speakers on a carpeted surface.



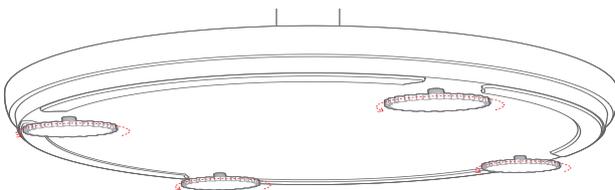
- 1) Gently lay down each tower speaker on a soft, nonabrasive surface.
- 2) Screw each spike into the threaded hole. Make sure all spikes are screwed in completely for stability.

NOTE:

- NEVER drag a tower speaker to move it, as this will damage the spikes and/or your carpet floor.
- Always lift a tower speaker and carry it to its new location.

Using the Supplied Adjustable Rubber Feet (Optional)

Eight adjustable rubber feet are supplied for use when you place the tower speakers on an uneven surface. Do not try them on even surfaces.



- 1) Gently lay down each tower speaker on a soft, nonabrasive surface.
- 2) Screw each adjustable rubber foot into the threaded hole. Adjust height of these adjustable rubber feet as necessary for optimal stability.

Recommended Tower Placement

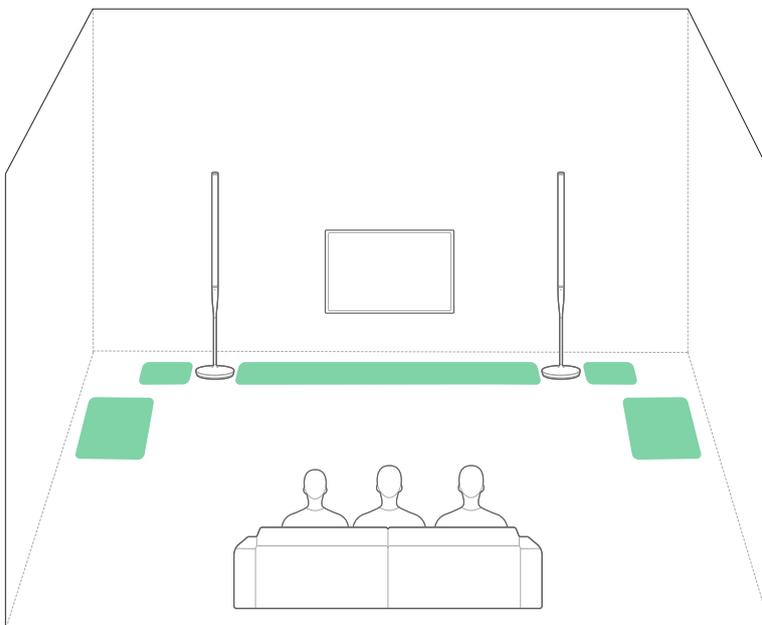
The Radiance tower uses Constant Beamwidth Technology™ (CBT) to create a wide sound stage and wide sweet spot.

TIPS:

- Place the towers at least 2m (6.5 ft) apart from each other and at least 2m (6.5 ft) from the listening area.
- Maintain a distance of at least around 0.3 m (1 ft) between the tower column and the front wall, and around 1 m (3.3 ft) between the tower column and the side walls.

Recommended Subwoofer Placement

To get the best sound performance, it is recommended to place the subwoofer as below:



* The green area shows the recommended subwoofer location.

TIPS:

- Place the subwoofer near the towers along the same wall. This can be (1) in the front of the room between the towers, or (2) outside of the towers. If this is not possible, then place the subwoofer (3) against the side wall, near the towers.
- Avoid placing the subwoofer in a corner or next to a tall cabinet.
- Leave around 0.3m (1 ft) between the subwoofer and a wall.

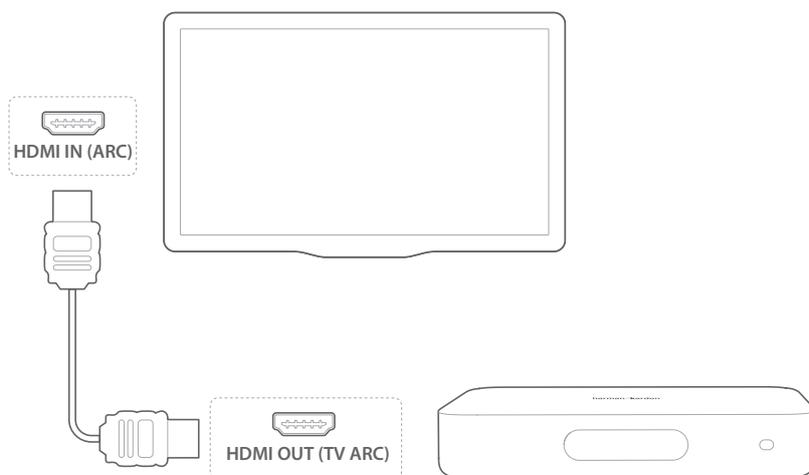
/ CONNECTING TO TV

NOTE:

- Before you make or change any connections, make sure that all devices are disconnected from the power outlets.

HDMI (Preferred)

- 1) Connect an HDMI cable from the **HDMI OUT (TV ARC)** connector on the back of the digital hub to the **HDMI IN (ARC)** connector on your TV.
- 2) Tap **HDMI ARC** on the touch screen or press the **HDMI TV** button on the remote control to select the **TV ARC** mode.



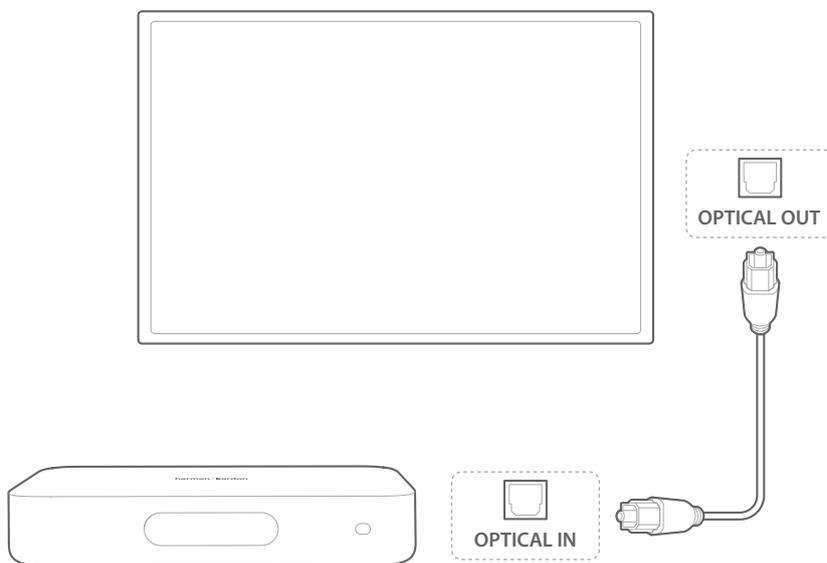
NOTES:

- An HDMI connection supports digital audio and video with a single connector. It is the best option to connect to the TV.
- If your TV features an **HDMI ARC** connector, you can enjoy the TV audio through your RADIANCE 2400 by using a single HDMI cable.
- If you want to enjoy sound only from your RADIANCE 2400 wireless home theater system, make sure to set your TV audio settings to support external speakers and disable the built-in TV speakers.
- This HDMI connection is required if you intend to connect other video devices to the RADIANCE 2400 inputs to display on your TV.
- On your TV, turn on HDMI-CEC operations. HDMI-CEC is a feature that enables CEC compliant devices that are connected through HDMI to be controlled by a single remote control, such as volume control for both the TV and the RADIANCE 2400. See the user manual of your TV for details.

Optical

NOTE:

- Make sure you have removed the protective cap from both ends of the optical cable.
- 1) Connect the **OPTICAL IN** connector on the digital hub to the **OPTICAL OUT** connector of your TV with a digital optical cable (sold separately).
 - 2) Tap **OPTICAL IN** on the touch screen or press the **OPTICAL** button on the remote control to select the **OPTICAL** mode.



TV Remote Control Setup

To use your TV remote control for both your TV and the RADIANCE 2400, check that your TV supports HDMI-CEC. If your TV does not support HDMI-CEC, follow the steps under “TV remote control learning”.

HDMI-CEC

If your TV supports HDMI-CEC, enable the functions as instructed in your TV user manual. You can control the volume +/-, mute/unmute and power on/standby functions on your RADIANCE 2400 through the TV remote control.

TV remote control learning

- 1) On the touch screen, tap **“Options”** > **“Universal IR learning”**.
- 2) Tap the → button to start the Universal IR learning on your TV remote control.



- 3) Point your TV remote control at the digital hub. Follow the screen instructions to operate the buttons on your TV remote control.

NOTE:

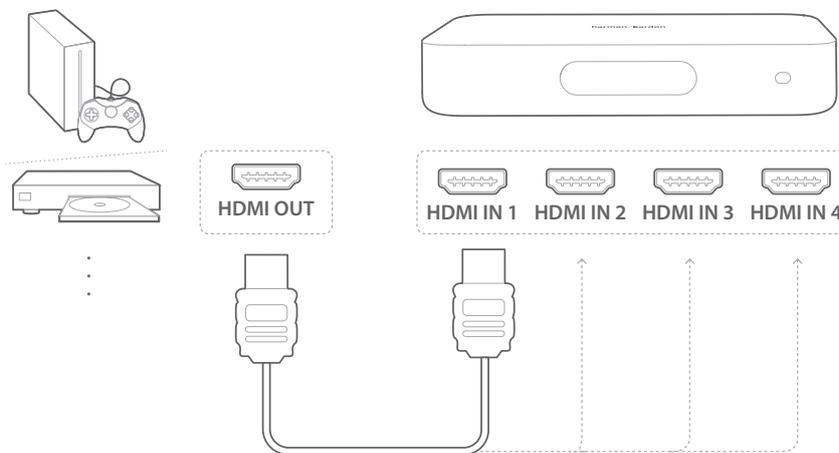
- The source selector on your TV remote control can only be used to select source devices connected to the TV.

/ CONNECTING TO OTHER DEVICES

HDMI (Preferred)

Connect a digital device such as a set-top box, DVD/Blu-ray player, or games console to your system through a single HDMI connection.

- 1) Connect an HDMI cable (sold separately) from the **HDMI IN** connector on the back of the digital hub to the **HDMI OUT** connector on your digital device.
- 2) Tap **HDMI IN 1 / HDMI IN 2 / HDMI IN 3 / HDMI IN 4** on the touch screen or press the **HDMI IN 1 / HDMI IN 2 / HDMI IN 3 / HDMI IN 4** button on the remote control to select the **HDMI** source.

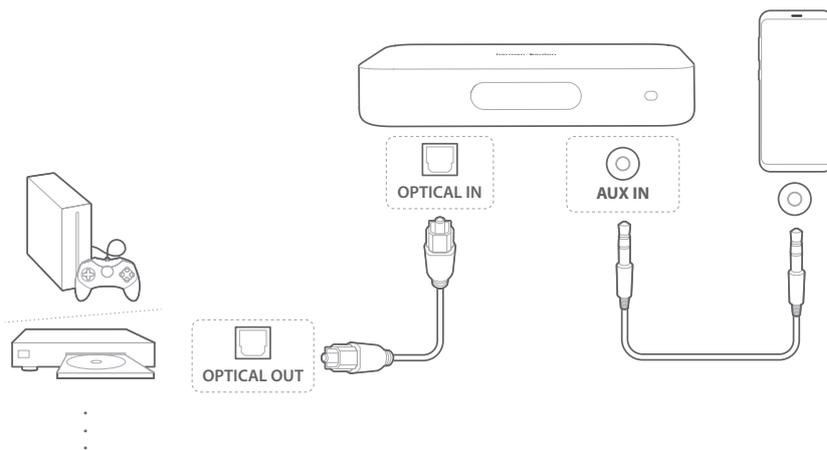


NOTE:

- For the best performance, always use a High-Speed (type 2) HDMI cable. See your HDMI cable specifications for more details.

Optical or Analog

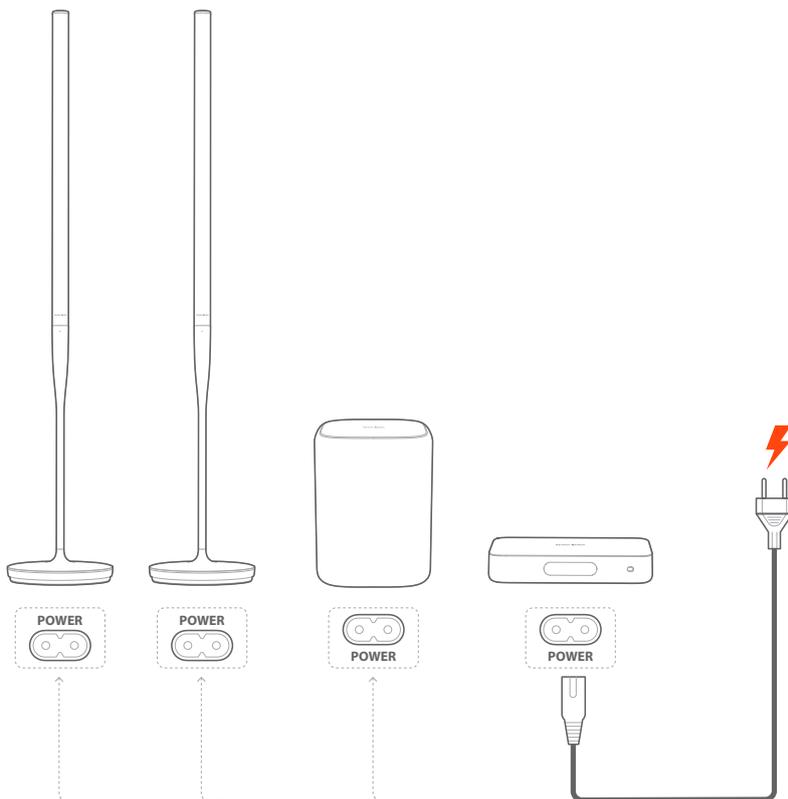
- 1) Connect the **OPTICAL IN** or **AUX IN** connector on the digital hub to the **OPTICAL OUT** or **AUDIO OUT** jack of the source device by using an optical cable (sold separately) or 3.5 mm audio cable (sold separately).
- 2) Tap **OPTICAL IN** or **AUX** on the touch screen or press the **OPTICAL** or **AUX** button on the remote control to select the **OPTICAL** or **AUX** mode.



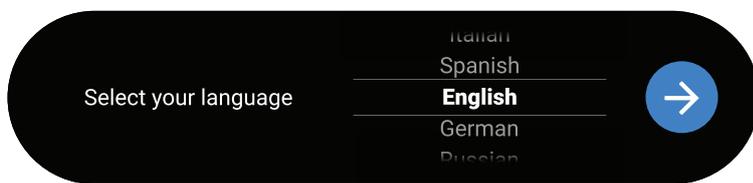
/ POWER ON

NOTES:

- Use the provided power cords only.
 - Before connecting the power cords, make sure all other connections have been completed.
 - When you disconnect the power cord, always pull the plug, never the cable.
 - Do not connect this product or other components to an AC outlet until all connections between components are complete.
- 1) For a successful system setup, make sure all devices are powered on and properly located.
 - 2) Plug the other end of the power cord into a live AC (mains) outlet. The RADIANCE 2400 will automatically power on and the touch screen will turn on. Alternatively, press  on the remote control to power on or switch to standby.



- 3) Select your language as instructed on the touch screen for the first-time setting.



CONNECTING TO INTERNET

NOTE:

- If you want to use the Internet with Ethernet, make sure to connect the Ethernet cable before plugging in the power cord.

Through the Google Home app



- 1) Make sure your mobile device or tablet is connected to the same Wi-Fi or linked to the same account as your speaker
- 2) Open the Google Home app.
- 3) At the top right, tap your account.
- 4) Verify that the Google Account shown is the one linked to your speaker. To switch accounts, tap another account or **Add another account**.
- 5) Tap **Assistant settings > Devices > Add a device**.
- 6) The Google Home app will search for remote devices on the same Wi-Fi network as your speaker.

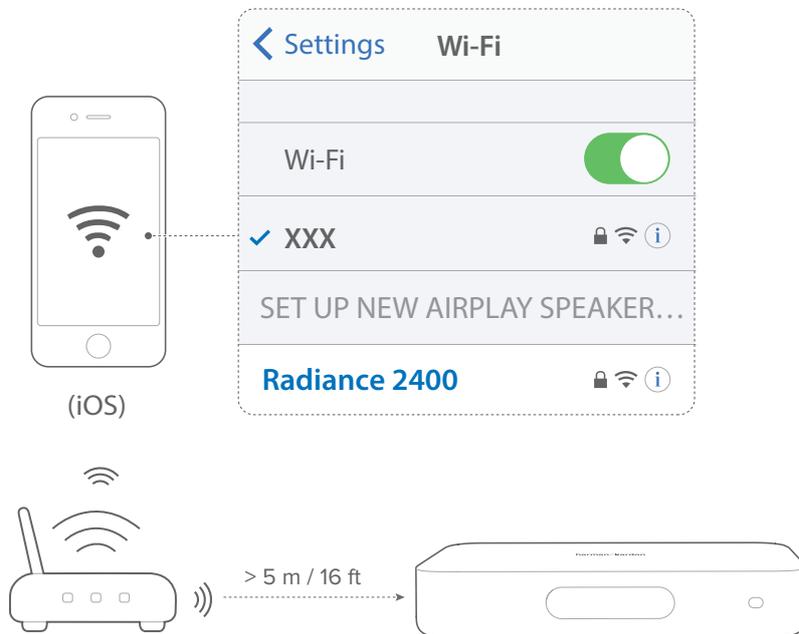
NOTE:

- You may find a list of devices that aren't voice-supported. These can't currently be linked to your speaker or display, but they'll be available soon.

- 7) To add a device, tap the check next to the device name.
- 8) You can select multiple devices. Tap **Add**.
- 9) You'll find linked remote devices TVs and speakers section of the Google Home app.

*Through AirPlay setup on an iOS device

- 1) Power on your RADIANCE 2400.
- 2) On your iOS device, go to “**Settings**” > “**Wi-Fi**”. Under “**SET UP NEW AIRPLAY SPEAKER...**”, select “**RADIANCE 2400**” and follow onscreen instructions to complete setup.



NOTES:

- *For AirPlay only users. Chromecast built-in requires additional setup with the Google Home app.
- If you encounter any setup issues, make sure to enable Bluetooth and location services on your smartphone or tablet.

/ USING YOUR RADIANCE 2400

Chromecast built-in™

With Chromecast built-in, you can stream music / tunes / podcasts / playlists from 300+ music apps to your RADIANCE 2400 by simply tapping the Cast button.



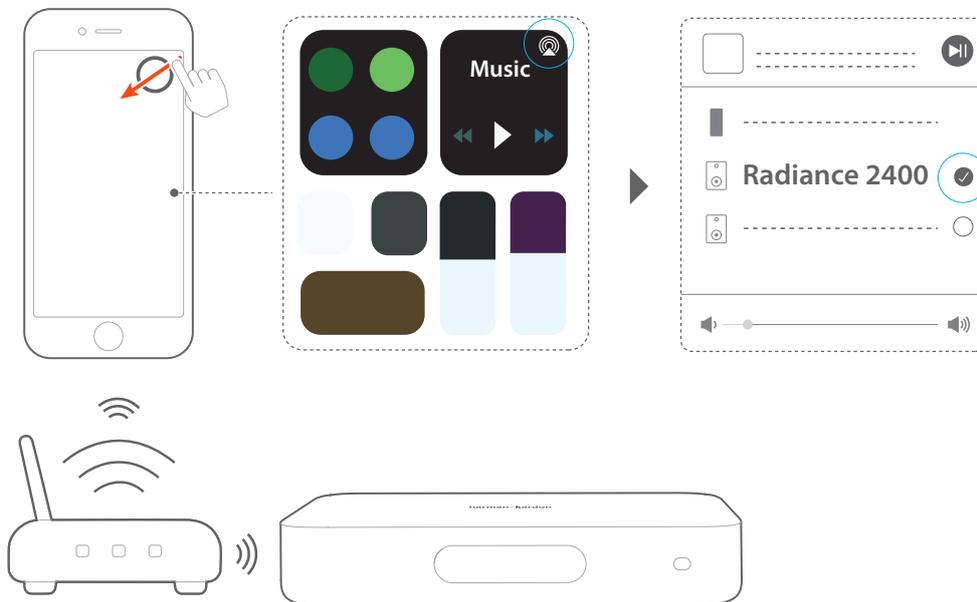
- 1) Check that your smartphone or tablet has been connected to the same network as the RADIANCE 2400.
- 2) Run the Chromecast-enabled app on your smartphone or tablet.
- 3) Play music. Press the  icon and select **“RADIANCE 2400”**.

NOTES:

- The name of your RADIANCE 2400 is assigned during the Wi-Fi setup. You may change it to your liking during the setup process.
- The RADIANCE 2400 can support audio streaming but not video streaming.

AirPlay

With AirPlay, you can stream music on your iOS device to the RADIANCE 2400.

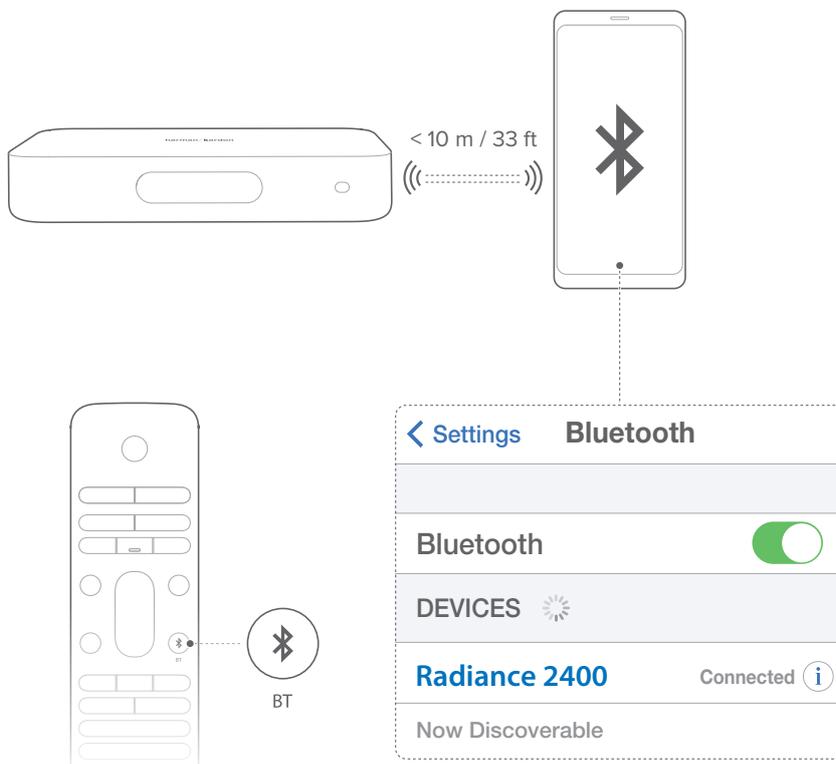


- 1) Check that your iOS device has been connected to the same network as the RADIANCE 2400.
- 2) To enter the Control Center on an iOS device, swipe down from the upper right corner (iOS 12 or later) or swipe up from the bottom edge (iOS 11 or earlier). Tap  to select the connected speaker, then start audio streaming from an app.

Bluetooth

You connect your RADIANCE 2400 to your Bluetooth-enabled smartphone or tablet.

Connect a Bluetooth device



- 1) Press  on the remote control or tap  **Bluetooth** on the touch screen to enter Bluetooth pairing mode.
 - During the 10 seconds of reconnection period, or until a successful connection, the white circle around the  icon will blink.
- 2) On your smartphone or tablet, select "**Radiance 2400**" to connect. You will hear a pairing chime once connected.
 - When the music is playing, the track, title and artist of the song will scroll on the touch screen.

NOTES:

- If you have already connected the RADIANCE 2400 to Wi-Fi and changed the device name, then select the new device name.
- To exit the Bluetooth mode, choose another source.
- This product automatically turns off after 20 minutes of inactivity.
- Bluetooth performance can be affected by the distance between this product and your Bluetooth device and the environment of operation.
- Keep a maximum distance of 10 meters (33 feet) between this product and your Bluetooth device to avoid disconnection.

Playback Controls Playback Controls

- **II**: Start, pause or resume play.
- **⏮/⏭**: Skip to previous / next track.

NOTE:

- During Chromecast built-in, AirPlay or Bluetooth streaming, music playback pauses on the current connected device when you start music playback on a second connected device.

/ SOUND SETTINGS

This section helps you choose the ideal sound for your video or music.

Volume

You have three ways to adjust the volume level while playing music.

- Press **VOL - / +** on the remote control.
- Adjust the volume via the Google Home app on your smartphone or tablet.
- Press **+ / -** on the back of each tower speaker respectively.

To mute the RADIANCE 2400, press  **MUTE** on the remote control. To restore the sound, press  **MUTE** again or adjust the volume.

Bass

Press **BASS - / +** on the remote control to turn bass down or up.

Alternatively, you can also tap “ **Audio**” > “ **Bass**” on the touch screen, then swipe up / down to adjust the bass level.

Treble

On the touch screen, tap “ **Audio**” > “ **Treble**”, then swipe up / down to adjust the treble level.

Sound Mode

Press **≡ SOUND MODE** on the remote control or tap **⚙️ Audio** on the touch screen, then select predefined sound modes to suit your music or video.

- **Virtual Surround:** Creates a surround sound effect.
- **Night Mode:** Decreases the volume of loud sounds. (Available only for Dolby Digital soundtracks)
- **Music Mode:** Creates sound tuned for music.
- **Movie Mode:** Creates sound tuned for movies.
- **News Mode:** Makes human voice more clear.
- **Standard:** Resumes the original sound.

Synchronize Video and Audio

If the audio and video are not synchronized, press **AUDIO SYNC +/-** on the remote control or tap **“Speaker Setup” > “Lipsync delay”** on the touch screen to delay the audio to match the video.

Test Tone

On the touch screen, tap **“Speaker Setup” > “Levels” > “Test tone”** to play the test tone. Each speaker location icon will blink in sequence.

Speaker Volume Trim

On the touch screen, tap **“Speaker Setup” > “Levels” > “Speaker volume trim”**, then swipe up / down to select speakers or adjust the volume level.

/ SETTINGS

Display Brightness

On the touch screen, tap “**Options**” > “**Brightness**”, then softly drag the value bar to adjust the brightness of the touch screen.

Software Upgrade

The software of your RADIANCE 2400 will be automatically upgraded to the latest version when it is connected to the Internet via a Wi-Fi network or Ethernet connection.

Restore Factory Settings

To restore the default settings programmed at the factory:

- Tap “**Options**” > “**Factory Reset**” on the touch screen; or
- Press and hold the **RESET** button on the back of the digital hub for 5 seconds.

When the factory settings are restored, the RADIANCE 2400 will automatically power off and restart. Any stored information or settings will be erased.

System Information

Tap “**System info**” on the touch screen to view the system information:

- **Country:** Country and language.
- **Network:** Network SSID, signal strength and Wi-Fi address.
- **About:** Model and name.
- **Software version:** Software version and date of last update.

Cleaning and Maintenance

To keep the exterior surface of your RADIANCE 2400 clean, unplug the AC power cords from the speaker first, wipe the exterior surfaces gently with a clean, soft cloth.

/ SPECIFICATIONS

General Specification

- Total system output power: 450 W RMS
- Tower output power: 125 W RMS
- Subwoofer output power: 200 W RMS
- Tower transducers: 24 x 1.25" (32 mm)
- Subwoofer transducer: 10" (250 mm)
- Total Harmonic Distortion (THD): < 1 %
- Power supply: 100-240 V~50/60 Hz
- Operating temperature: 0 °C - 45 °C

HDMI Specification

- HDMI video input: 4
- HDMI video output (with Audio Return Channel): 1
- HDMI HDCP version: 2.3
- HDR: HDR10

Audio Specification

- Audio inputs: 1 Optical, 1 Aux, Bluetooth, Wi-Fi Audio
- Frequency response: 35 Hz - 20 kHz

Wireless Specification

- Bluetooth version: 4.2
- Bluetooth frequency range: 2402 MHz - 2480 MHz
- Bluetooth transmitter power: ≤ 10 dBm (EIRP)
- Bluetooth transmitter modulation: GFSK, $\pi/4$ DQPSK, 8DPSK
- Wireless network: 802.11 a/b/g/n/ac
- 2.4G Wi-Fi frequency range: 2412 – 2472 MHz (USA and Canada 11 Channels, Europe and others 13 Channels)
- 2.4G Wi-Fi transmitter power: ≤ 20 dBm (EIRP)
- 2.4G Wi-Fi modulation: DBPSK, DQPSK, CCK, QPSK, BPSK, 16QAM, 64QAM

- 5G Wi-Fi transmitter power: ≤ 23 dBm (EIRP)
- 5G Wi-Fi modulation: QPSK, BPSK, 16QAM, 64QAM, 256QAM
- 5G Wi-Fi transmitter frequency range: 5.15~5.35 GHz, 5.470~5.725 GHz, 5.725~5.825 GHz
- 5G WISA transmitter power: ≤ 14 dBm (EIRP)
- 5G WISA modulation: OFDM, BPSK, QPSK, 16QAM
- 5G WISA transmitter frequency range: 5.15~5.35 GHz, 5.470~5.725 GHz, 5.725~5.825 GHz

Dimensions

- Tower dimensions (D x H):
12.60" x 69.68" (320 mm x 1769 mm)
- Tower weight: 16.8 lbs (7.6 kg)
- Subwoofer dimensions: (W x H x D):
11.65" x 15.73" x 11.65" (296 mm x 400 mm x 296 mm)
- Subwoofer weight: 32.19 lbs / 14.6 kg
- Packaging dimensions (W x H x D):
46.06" x 30.55" x 20.87" (1170 mm x 776 mm x 530 mm)
- Packaging weight (gross): 106.26 lbs / 48.2 kg

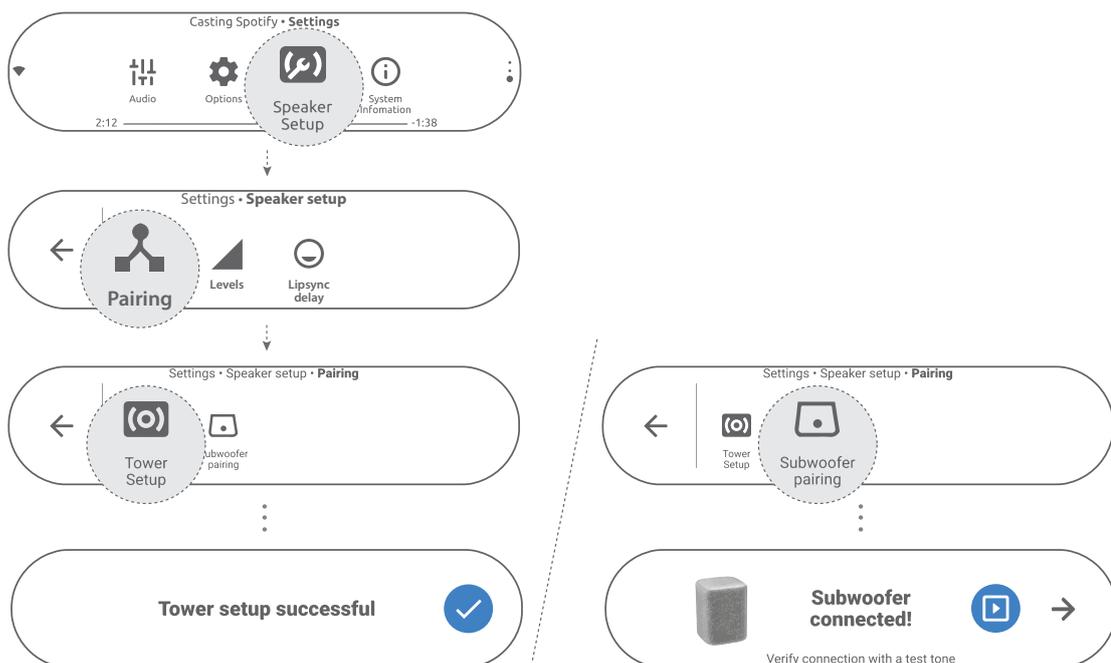
/ TROUBLESHOOTING

Never try to repair the product yourself. If you have any problems using this product, check the following points before you request a service.

Sound

No sound from the tower speakers or subwoofer.

- Ensure that all cable connections are secure.
- Check if the tower and subwoofer's LEDs are in solid white color. A blinking LED means a disconnection. In this case:
 1. Hold **RESET** on the back of the tower or subwoofer for 5 seconds to enter pairing mode.
 2. On the touchscreen, tap "**Speaker Setup**" > "**Pairing**" > "**Tower Setup**" or "**Subwoofer pairing**", then follow the onscreen instructions to pair with the digital hub again.



Distorted sound or echo.

- If you play audio from the TV through the system, make sure the TV is muted.

Audio and video are not synchronized.

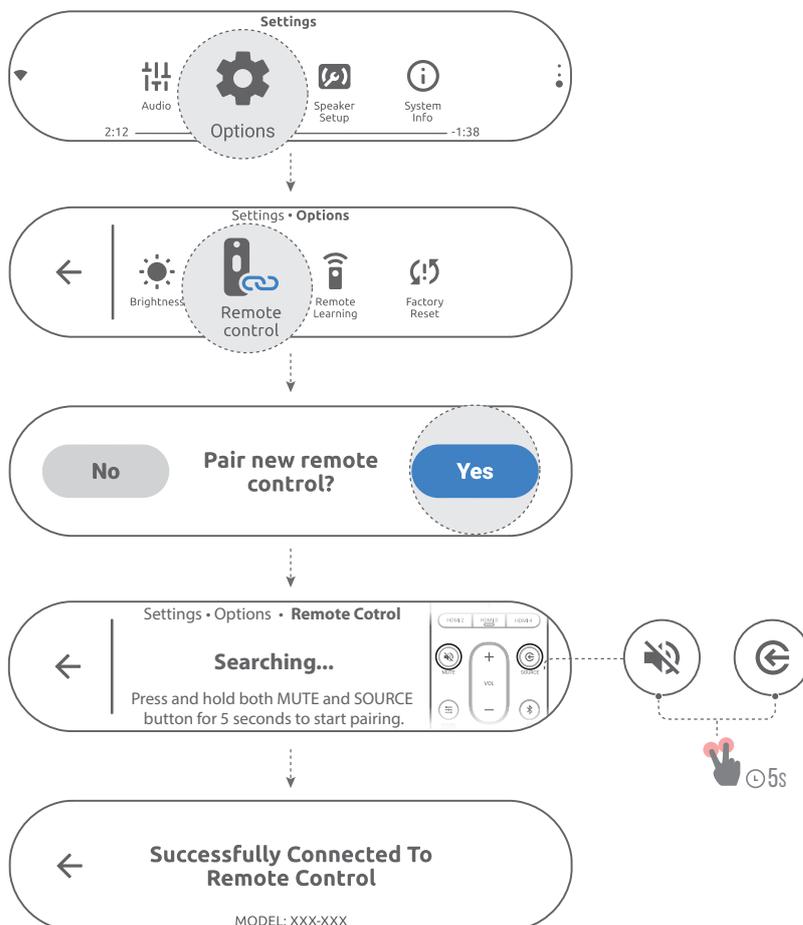
- Press **AUDIO SYNC +/-** to synchronize.
- Make sure the TV delay is set to 0.

Remote Control

The remote control does not work.

- Check if the batteries are drained. If so, replace them with new ones.
- The remote control may have failed to connect with the digital hub. In this case:

On the touchscreen, tap **“Options”** > **“Remote Control”**, then follow the onscreen instructions to pair with the digital hub again.



Bluetooth

A device cannot connect with the RADIANCE 2400.

- Check if you enable the Bluetooth function of the device.
- The **RADIANCE 2400** is already connected to another Bluetooth device. Disconnect the previously connected device first.

Poor audio quality from a connected Bluetooth device.

- The Bluetooth reception is poor. Move the device closer to the RADIANCE 2400, or remove any obstacle between them.

Internet

Failed to connect to Wi-Fi.

- Check if your router works.
- Follow the instructions in the Google Home app to complete the Wi-Fi setup.
- Make sure that you have selected the right network and entered the correct password.
- Make sure that your router or modem is turned on and within the range.
- Make sure that your RADIANCE 2400 is connected to the same wireless LAN as your smartphone or tablet.

The Google Home app cannot find the device.

- Make sure that your RADIANCE 2400 is powered on.
- Make sure that your network (Wi-Fi or Ethernet) is working properly.
- Make sure that your router or modem is powered on and within the range.

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