

SURROUND



OWNER'S MANUAL

/ IMPORTANT SAFETY INSTRUCTIONS

Verify Line Voltage Before Use

The HK Surround wireless home theater system 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 HK Surround wireless home theater system. We encourage you to take a few minutes to read this manual, which describes the products 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.

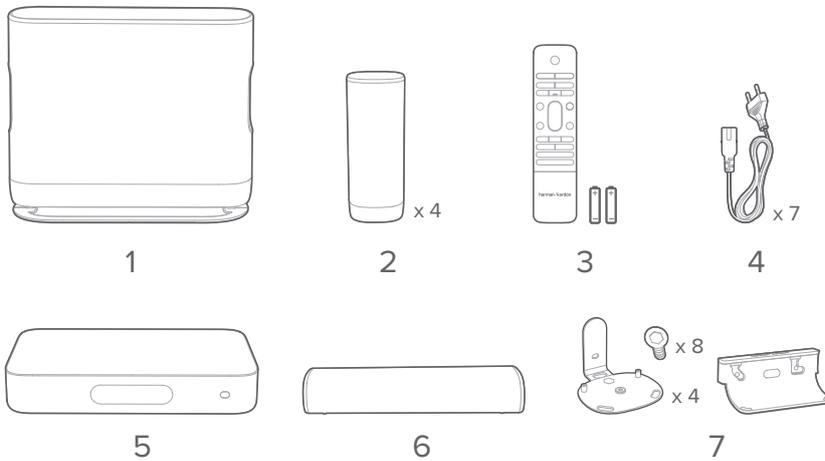
The streaming box may have an important software update available. Please follow the instructions to connect the product to Wi-Fi to ensure that your product has the most recent software updates.

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

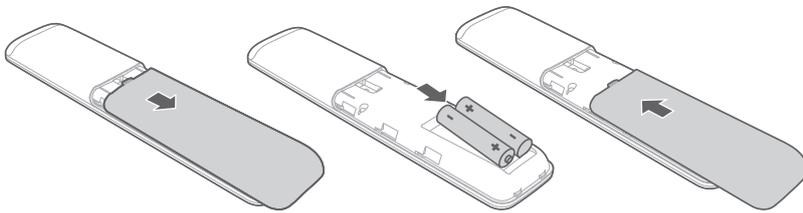
Carefully unpack the box and check if the following parts are included. If any part is damaged, do not use it contact your Harman Kardon retailer or customer service.



1. Subwoofer
2. Satellite speakers
3. Remote control (with 2 AAA batteries)
4. Power cords*
5. Streaming box
6. Center speaker
7. Wall-mount brackets

* Power cord quantity and plug type vary by regions.

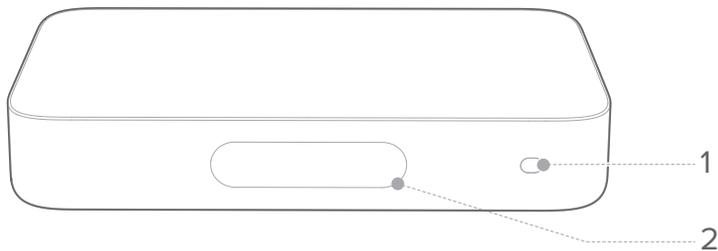
Inserting Batteries before Using the Remote Control (AAA batteries x 2)



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 of the Streaming Box

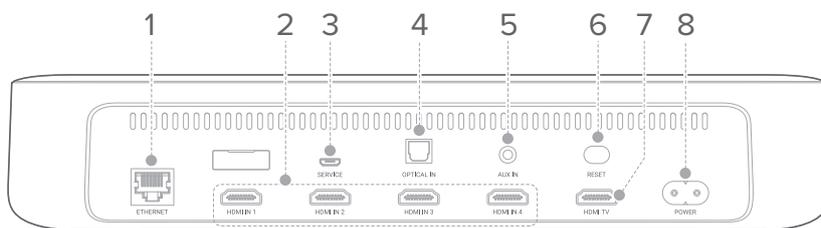


1. Infrared (IR) sensor

2. Touch screen

- : Wi-Fi signal indicator.
- : Press to stream music from Chromecast.
- : Press to set up surround sound system.
- : 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.

Back Panel of the Streaming Box



1. ETHERNET

- Connect to the Internet (RJ45 connector).

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

- Connect to the HDMI output on a digital device.

3. SERVICE (for technical personnel only)

4. OPTICAL IN

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

5. AUX IN

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

6. RESET

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

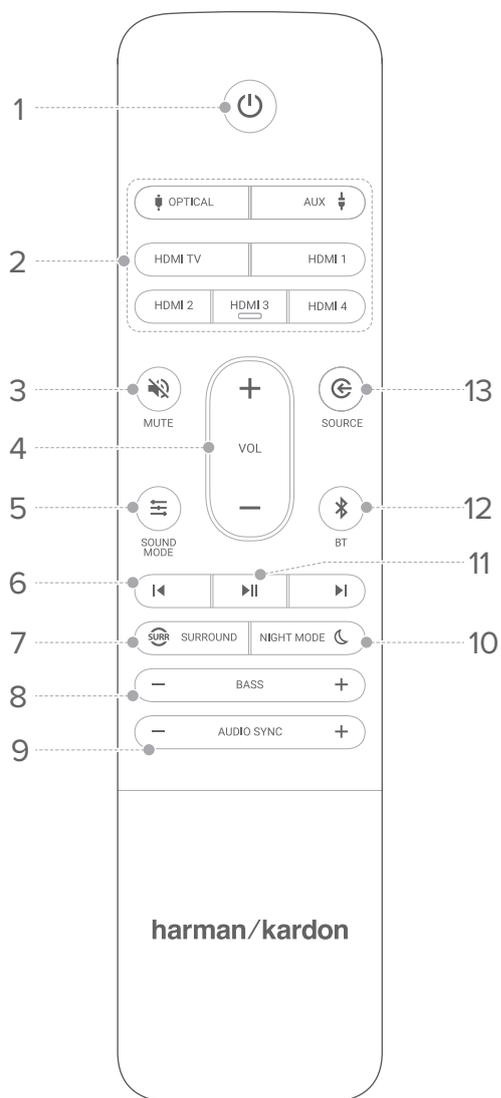
7. HDMI TV

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

8. POWER

- Connect to the power supply.

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 / Voice / Movie / Personal**);
- Press and hold to reset personal sound mode.

6.

- Skip to the previous or next track for Chromecast or Bluetooth playback.

7. SURROUND

- Turn the surround sound effect on or off.

8. BASS - / +

- Turn bass down or up.

9. AUDIO SYNC - / +

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

10. NIGHT MODE

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

11. **▶||**

- Play or pause Chromecast or Bluetooth playback.

12. **✳ BT**

- Press to enter Bluetooth pairing mode.
- Press and hold for 3 seconds to pair with a new device.

13. **⌂ SOURCE**

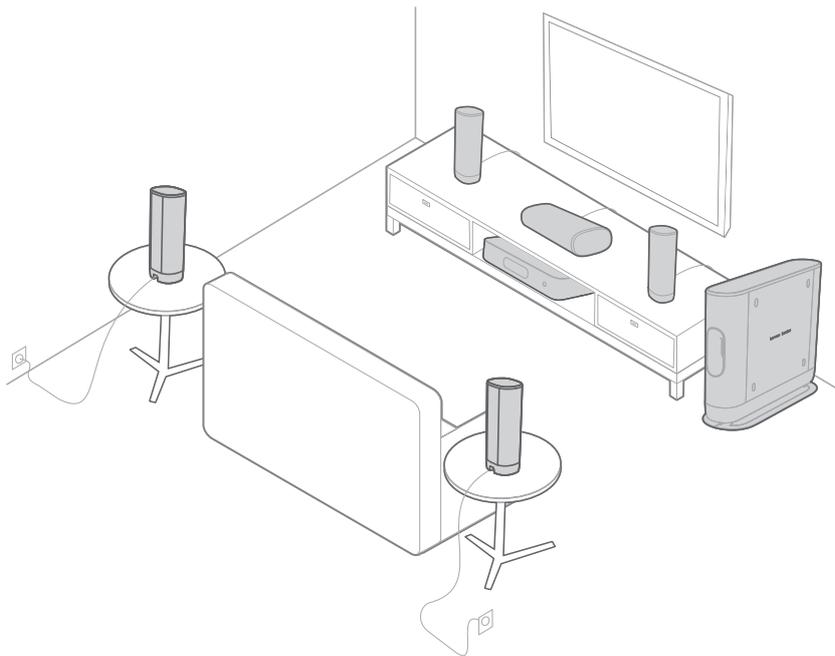
- Switch to shuffle mode: **HDMI OUT (TV ARC) / HDMI 1 / HDMI 2 / HDMI 3 / HDMI 4 / Optical / AUX / Bluetooth.**

/ INSTALLATION

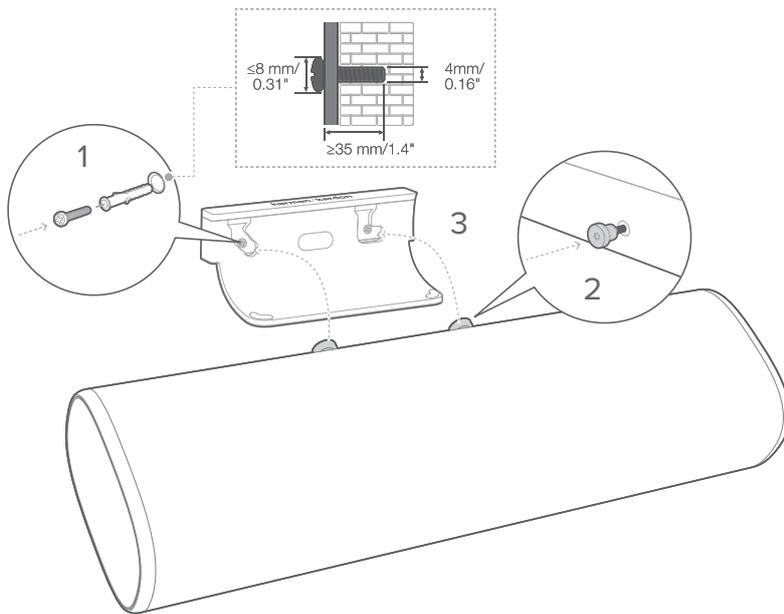
NOTES

- To avoid wireless interference, keep other wireless devices 16.4 feet (5 meters) away from the streaming box.
- Make sure there are AC outlets nearby.

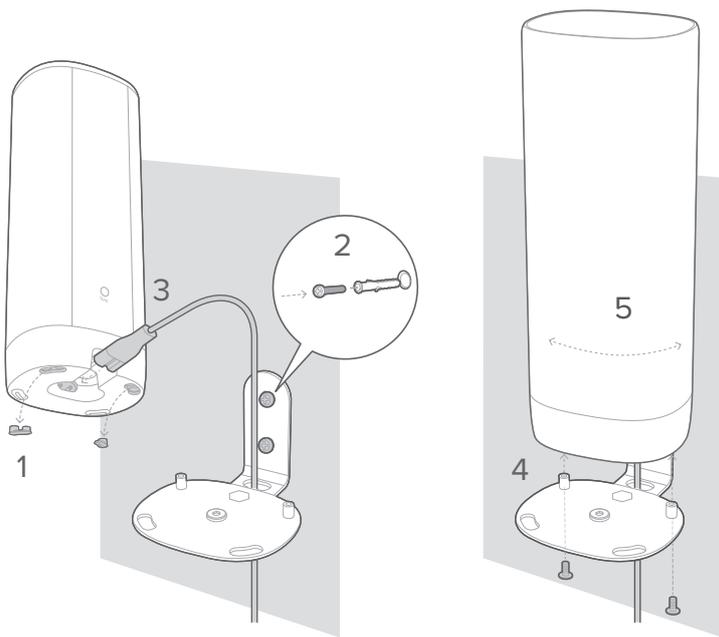
Speaker location plays a critical role in setting up your wireless home theater system.



- 1) Place the streaming box near your TV. Do not place anything on top of the streaming box.
- 2) Place or wall mount the center speaker below your TV, directly in front of your seating position.



- 3) Place two front speakers to the left and right of the center speaker individually.
- 4) Place two rear speakers behind your seating position. To achieve the best quality sound, mount them on the wall or raise them by using stands (not provided).



- 5) Place the subwoofer at least 3.3 feet (1 meter) to the left or right of the TV. Leave a clearance of about 3.9 inches (10 centimeters) from the wall.

CAUTION:

- Before mounting on a wall, make sure the wall can support the weight of the speaker.
- Install on a vertical wall only.
- For the wall-mounting, avoid a location with high temperature or humidity.
- Make sure the product is powered off and unplugged before the installation. Otherwise, it may cause an electric shock.
- Before moving or installing the product, make sure to power off and unplug first.

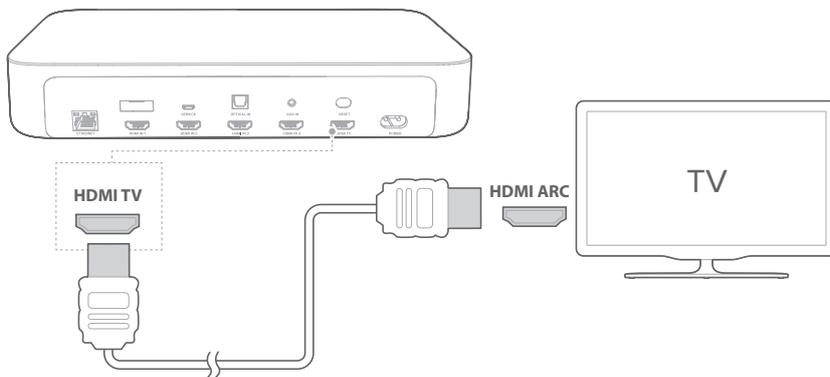
/ CONNECTING TO TV

NOTES

- If you want to enjoy sound only from the wireless home theater system, make sure to set your TV audio settings to support external speakers and disable the built-in TV speakers.
- Before you make or change any connections, make sure that all devices are disconnected from the power outlet.

HDMI (Preferred)

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



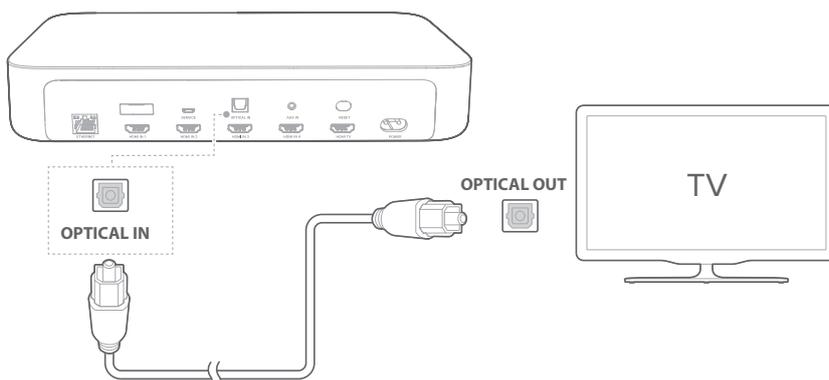
NOTES

- An HDMI connection supports digital audio and video with a single connector. It is the best option to connect to your wireless home theater system.
- If your TV features an HDMI ARC connector, you can enjoy the TV audio through your wireless home theater system by using a single HDMI cable.
- This HDMI connection is required if you intend to connect other video devices to the streaming box 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 wireless home theater system. 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 streaming box to the **OPTICAL OUT** connector of your TV with a digital optical cable (sold separately).
 - 2) Press **OPTICAL IN** on the touch screen or press the **OPTICAL** button on the remote control to select the **OPTICAL** mode.

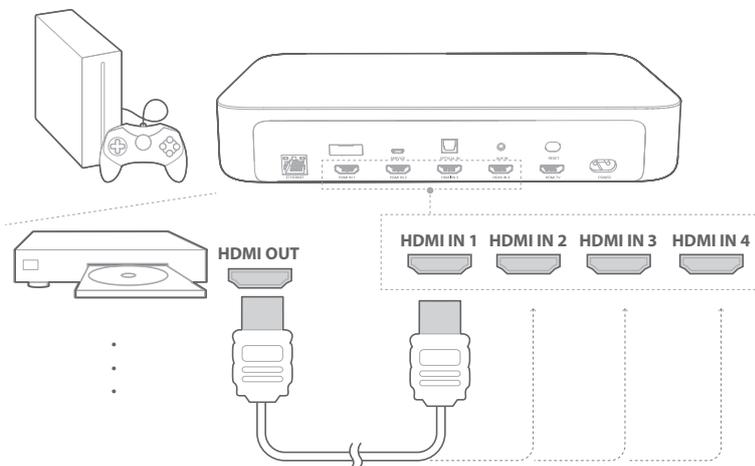


CONNECTING TO OTHER DEVICES

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 streaming box to the **HDMI OUT** connector on your digital device.
- 2) Press **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** mode.



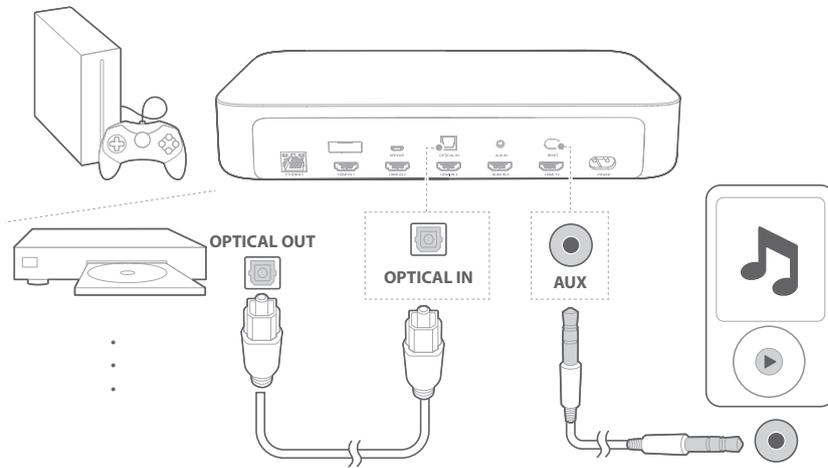
NOTE

- 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 streaming box to the **OPTICAL OUT** or **AUDIO OUT** jack of the source device by using an optical cable (sold separately) or 3.5mm audio cable (sold separately).

- 2) Press **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.

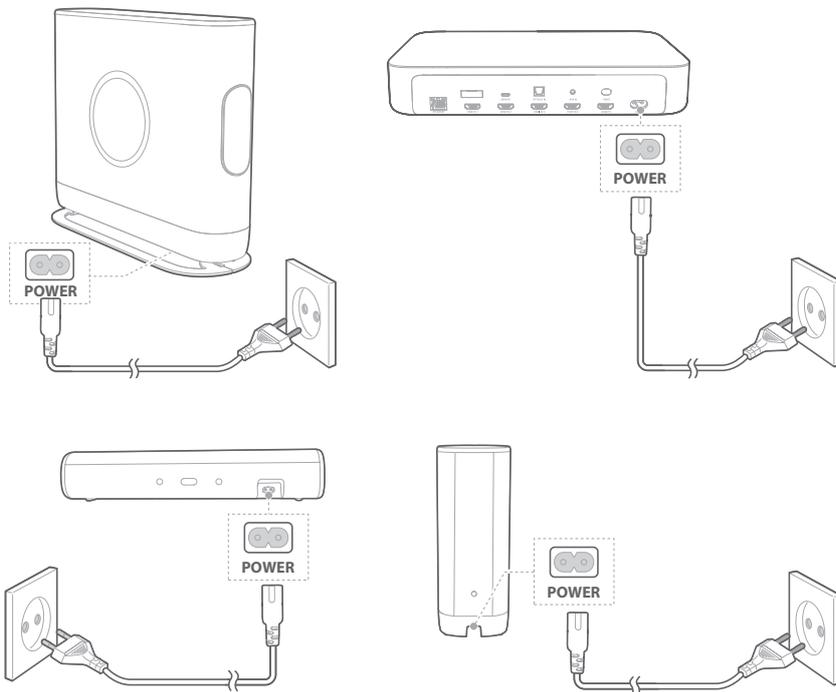


/ POWER ON

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 units are powered on and properly located.



- 2) Verify speaker location as instructed on the touch screen of the streaming box.



- 3) You are requested to install the Google Home app on your device to set up this system.

Speaker LED Indicators

- ● **Off:** Working / Power off
- ○ **White (Flashing slowly):** Connecting / Reset
- ☼ **White (Flashing fast):** Critical error
- ○ **White (Constant):** Connected

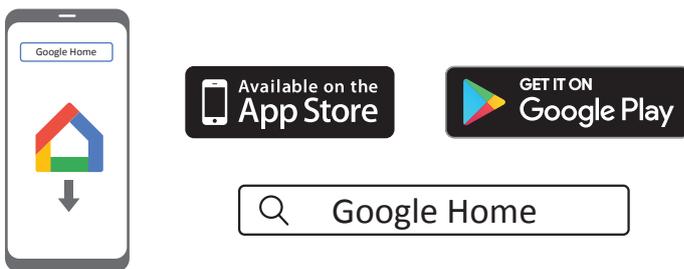
/ CONNECTING TO INTERNET

The system is required to connect to the Internet (Wi-Fi or Ethernet) with the Google Home app.

NOTE:

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

- 1) Download the Google Home app on your smartphone or tablet.
- 2) Power on your system.
- 3) Run the Google Home app and set up your system as instructed in the app. Always follow the instructions in the app to complete the Internet setup.
- 4) Sign in with your Google account. If you do not have, create a new one.



* To avoid any interference, keep a minimum distance of 16.4 feet (5 meters) between the streaming box and your Wi-Fi router.



NOTES

- If you encounter any setup issues, make sure to enable Bluetooth and location services on your smartphone or tablet.
- In the Google Home app, you can rename the system. The device name will remain during Bluetooth device discovery and Chromecast streaming.
- Once the streaming box is connected to Internet, it will receive a periodic over-the-air software update to improve performance. This update may take a few minutes to complete.

/ USING YOUR SYSTEM

Play Music with Chromecast

With Chromecast built-in, you can stream music, tunes, podcasts, and playlists from 300+ music apps to your system by simply tapping the **CAST** button.

- 1) Run the Chromecast enabled app on your smartphone or tablet.
- 2) Tap the  **CAST** icon in the app and select the system.
- 3) Press “**Play**” in the app.

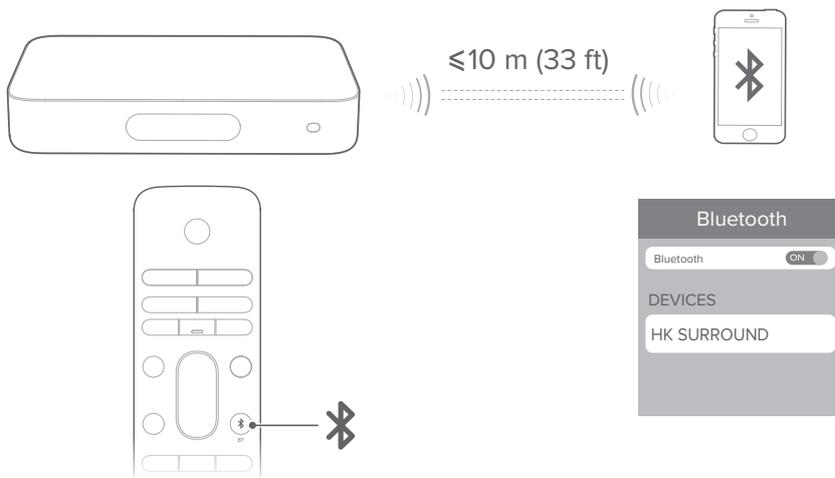
NOTES

- The name of this product is assigned during the Wi-Fi setup.
- The system can support audio streaming and cannot support video streaming.

Play Music through Bluetooth

You can use your system as external speakers for your Bluetooth enabled smartphone or tablet.

- 1) Press  button on the remote control or press  on the touch screen of the streaming box to enter Bluetooth pairing mode.
 - During the 10 seconds of reconnection, or until a successful connection, the white circle below  icon will blink.
- 2) On your smartphone or tablet, choose “**HK SURROUND**” 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 streaming box to Wi-Fi and changed the device name, then select the new device name.
- To exit Bluetooth mode, choose other sources.
- To disconnect and pair another device, press and hold  for 3 seconds on the remote control or on the touch screen.
- The system 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 the streaming box and your Bluetooth device to avoid disconnection.

Playback Controls

- : Start, pause or resume play.
-  / : Skip to previous / next track.

/ SOUND SETTINGS

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

Volume

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

- Press **VOL - / +** button on the remote control.
- Adjust the volume via the Google Home app on your smartphone or tablet.

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

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.

/ SETTINGS

Display Brightness

Press **Options** > **Brightness**, then softly drag the value bar to adjust the brightness of the touch screen.

Software Upgrade

The software of your system will be automatically upgraded to the latest version when the speaker 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:

- Press **Options** > **Factory Reset** on the touch screen; or
- Press and hold the **RESET** button on the back of the streaming box for 5 seconds.

When the factory settings restore is complete, the streaming box 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 wireless home theater system clean, unplug the AC power cord from the units first, wipe the exterior surfaces gently with a clean, soft cloth.

/ SPECIFICATIONS

General

- Power supply: 100 - 240 V ~ 50/60 Hz
- Total output power: 370 W RMS
- Frequency response: 20 Hz - 20 KHz
- Center speaker output power: 50 W RMS
- Center speaker transducers: 1.25" (tweeter) + (woofer)
- Satellite speaker output power: 4 x 50 W RMS
- Satellite speaker transducers: 4 x 1.25" (tweeter) + 2 x 3" (woofer)
- Subwoofer output power: 120 W RMS
- Subwoofer transducer size: 7"
- Remote control batteries: 2 x AAA-R03-1.5 V
- Operating temperature: 0 - 45 °C

Streaming box

- Bluetooth version: 4.2
- Bluetooth transmitter frequency range: 2402 - 2480 MHz
- Bluetooth transmitter power: <10 dBm
- Bluetooth transmitter modulation: GFSK, $\pi/4$ DQPSK, 8DPSK
- Wireless network: 802.11 a/b/g/n/ac (2.4GHz / 5GHz)
- 2.4G Wi-Fi transmitter frequency range: 2412 - 2472 MHz (2.4GHz ISM Band, USA 11 Channels, Europe and others 13 Channels)
- 2.4G Wi-Fi transmitter power: < 20 dBm
- 2.4G Wi-Fi modulation: DBPSK, DQPSK, CCK, PSK, BPSK, 16QAM, 64QAM
- 5G Wi-Fi transmitter power: < 23 dBm

- 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
- 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
- Power consumption in sleep mode: < 2.0 Watts

Center Speaker / Satellite Speaker / Subwoofer

- 5G WISA transmitter power: < 14 dBm
- 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
- Power consumption in sleep mode: < 2.0 Watts

/ TROUBLESHOOTING

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

Sound

No sound from the system.

- Make sure that the system is not muted.
- Make sure all the speakers are powered on and successfully paired.
- Make sure to select the correct audio input source.

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.

Bluetooth

A device cannot connect with the streaming box.

- Check if you enable the Bluetooth function of the device.
- The system is already connected to another Bluetooth device. Press and hold **✳** for 3 seconds on remote control to disconnect and pair with a new device.

Poor audio quality from a connected Bluetooth device.

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

Internet

Failed to connect to my Wi-Fi network.

- 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 system is connected to the same wireless LAN as your smartphone or tablet.

The Google Home app cannot find the device.

- Make sure that your system 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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/ LICENSE



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