CINEMA SB510

OWNER'S MANUAL

IMPORTANT SAFETY INSTRUCTIONS

Verify Line Voltage Before Use

The JBL CINEMA BAR SB510 (soundbar) 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 retailer or customer service representative before plugging the unit into 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 this 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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1. INTRODUCTION

Thank you for purchasing the JBL CINEMA BAR SB510 (soundbar) which is designed to bring an extraordinary sound experience to your home entertainment system. We encourage you to take a few minutes to read through this manual, which describes the product and includes step-by-step instructions for setting up and getting started.

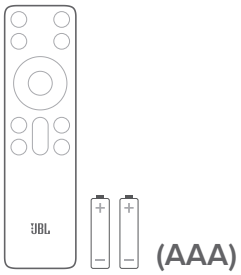
Designs and specifications are subject to change without notice. If you have any questions about the soundbar, installation or operation, please contact your retailer or customer service representative, or visit our website: www.jbl.com.

2. WHAT'S IN THE BOX

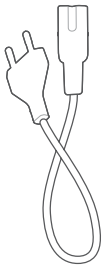
Unpack the box carefully and ensure that the following parts are included. If any part is damaged or missing, do not use it and contact your retailer or customer service representative.

Main unit

Remote control (with 2 AAA batteries)

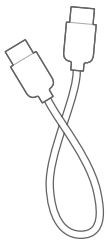


Power cord*

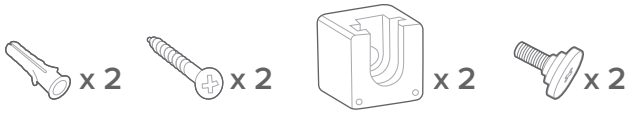


* Power cord quantity and plug type vary by regions.

HDMI cable



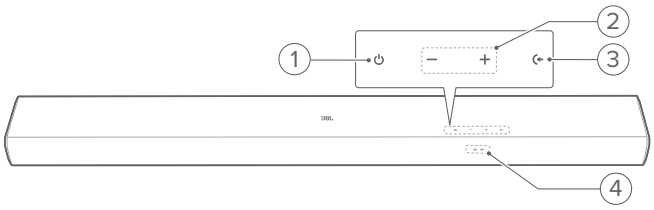
Wall-mounting kit



Product information & wall-mounting template

3. PRODUCT OVERVIEW

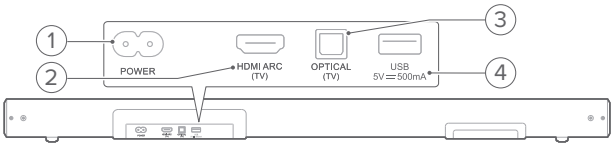
3.1 Controls and indicators



1. ⏻ **(Power)**
   - Switch on or to standby.
2. **-/+ (Volume)**
   - Press to decrease or increase the volume.
   - Hold to decrease or increase the volume continuously.
   - Hold both buttons together to mute or unmute.
3. **(Source)**
   - Select a sound source: TV (default, for audio input from TV connection where the **HDMI ARC (TV)** connector is prioritized over the **OPTICAL (TV)** connector), or Bluetooth.
   - In Bluetooth mode, hold for more than 3 seconds to enter Bluetooth pairing mode.
4. **Status indicator**

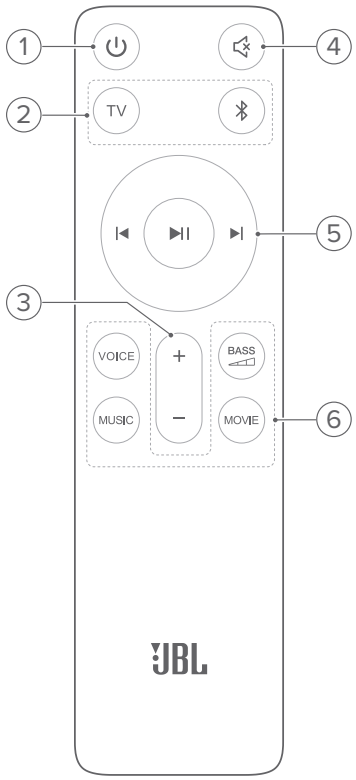
●	Solid (red)	Standby mode
◉	Fast flashing (red)	System startup
○	Solid (white)	HDMI ARC source selected
●	Solid (amber)	Optical source selected
◉	Fast flashing (blue)	Bluetooth pairing mode
●	Solid (blue)	Connected to Bluetooth
\	Flashing (current sound source)	Adjusting volume level
\	Slow flashing (current sound source)	Maximum / minimum volume level reached
\	Continuous slow flashing (current sound source)	Sound muted

3.2 Connectors



1. **POWER**
   - Connect to power.
2. **HDMI ARC (TV)**
   - Connect to the HDMI ARC input on your TV.
3. **OPTICAL (TV)**
   - Connect to the optical output on your TV.
4. **USB**
   - USB connector for software update (for service only).
   - Connect to USB storage device for MP3 file playback (for US version only).

3.3 Remote control



1. ⏻
   - Switch on or to standby.
2. **Source selectors**

   TV
   - Select the TV source (automatically switches to eARC/ ARC or Optical source when the HDMI / optical cable is connected; **HDMI ARC (TV)** connector is prioritized over the **OPTICAL (TV)** connector).

   (Bluetooth mode)
   - Select the Bluetooth source.
   - Hold for 3 seconds to enter Bluetooth pairing mode.
3. **+ / -**
   - Press to increase or decrease the volume.
   - Hold to increase or decrease the volume continuously.
4. **(Mute)**
   - Mute or unmute.

5. **Playback buttons**

   I◀/▶I

   - Bluetooth source: Skip to the previous or next track.

   ▶II

   - Bluetooth source: Start or pause playback.

6. **Sound effect buttons**

   VOICE

   - Select the pre-defined EQ (equalizer) settings for news.

   MUSIC

   - Select the pre-defined EQ (equalizer) settings for music.

   MOVIE

   - Select the pre-defined EQ (equalizer) settings for movie.

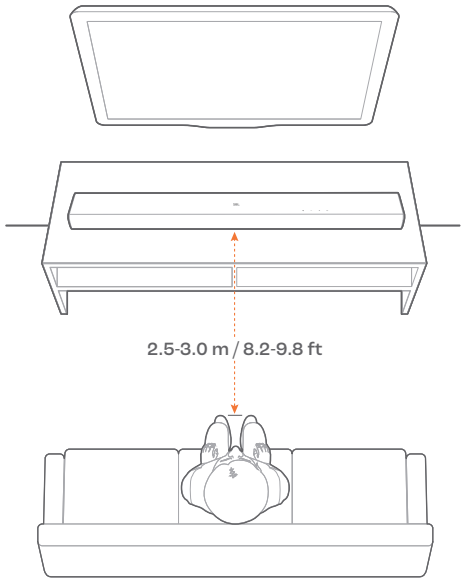
   BASS

   - Select the bass level: 1/2/3 (default)/4/5.

4. PLACEMENT

4.1 Desktop placement

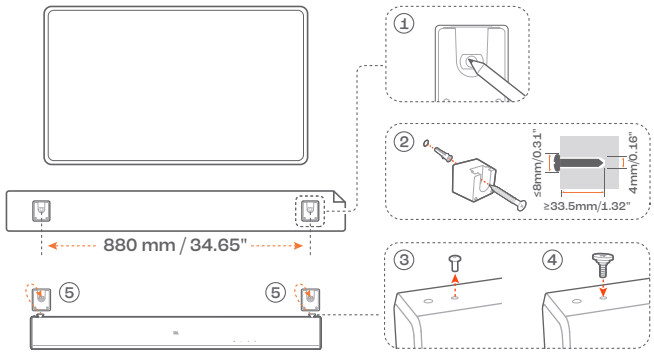
Place the soundbar on a flat and stable surface.



NOTES:

– The power cord shall be properly connected to power.
– Do not place any objects on the top of the soundbar.

4.2 Wall-mounting



1. Preparation:
   a) Stick the supplied wall-mounting template to a wall by using adhesive tapes.
   b) Use your ballpen tip to mark the screw holder location. Remove the template.
   c) On the marked location, drill a 4 mm / 0.16” hole. Refer to Figure 2 for the screw size.
2. Install the wall-mounting bracket.
3. As shown in the diagram, remove the fastening screw by using a screwdriver.

4. Fasten the wall-mounting screw included in the supplied mounting kit.
5. Mount the soundbar.

NOTES:

– Make sure that the wall can support the weight of the soundbar.
– Install on a vertical wall only.
– Avoid a location under high temperature or humidity.
– Before wall-mounting, make sure that cables can be properly connected between the soundbar and external devices.
– Before wall-mounting, make sure that the soundbar is unplugged from power. Otherwise, it may cause an electric shock.

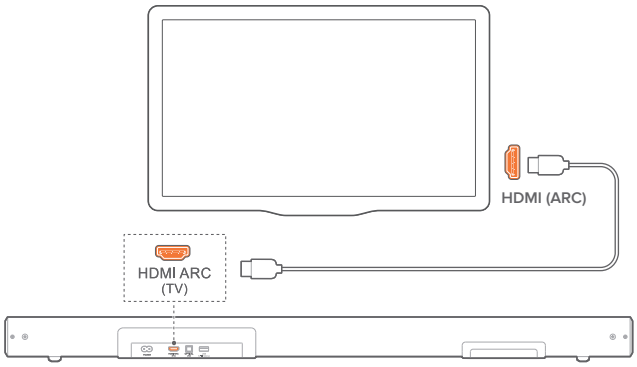
5. CONNECT

5.1 TV connection

Connect the soundbar with your TV through the supplied HDMI cable or an optical cable (sold separately).

5.1.1 Through the supplied HDMI cable

An HDMI connection supports digital audio and video with a single connection. HDMI connectivity is the best option for your soundbar.

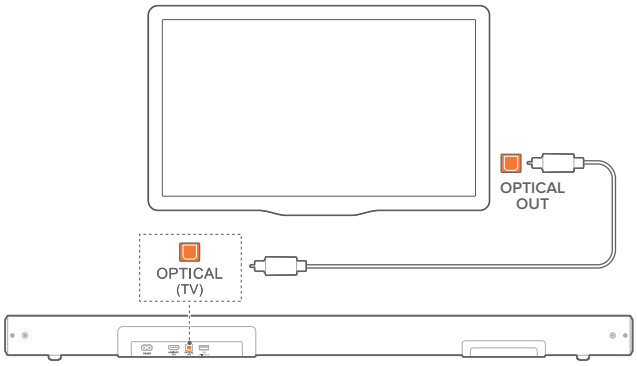


1. Connect the soundbar with your TV by using the supplied HDMI ARC cable.
2. On your TV, check that HDMI-CEC and HDMI ARC have been enabled. Refer to the owner's manual of your TV for more information.

NOTES:

– To play audio through the HDMI ARC cable, select the TV source (See "6.2 Play from the TV source").
– Full compatibility with all HDMI-CEC devices is not guaranteed.
– Contact your TV manufacturer if you have problems with the HDMI-CEC compatibility of your TV.

5.1.2 Through an optical cable



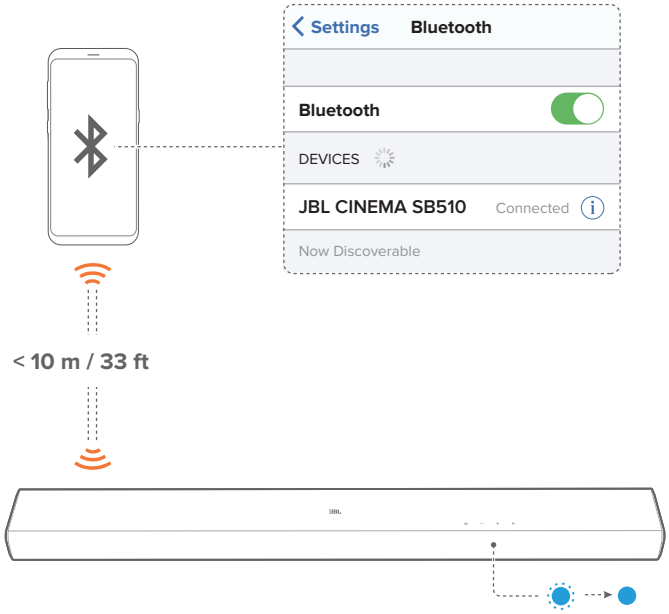
Connect the soundbar with your TV by using an optical cable (sold separately).

NOTE:

– To play audio through the optical cable, select the TV source (See "6.2 Play from the TV source").

5.2 Bluetooth connection

Through Bluetooth, connect the soundbar with your Bluetooth device, such as a smartphone, tablet and laptop.



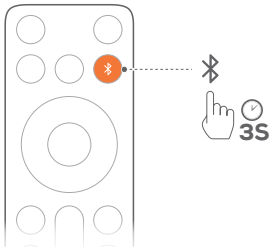
5.2.1 Connect a Bluetooth device

1. Press ⏻ to switch on (See "6.1 Power-on/Auto standby/Auto wakeup").
2. To select the Bluetooth source, press ⮜ repeatedly on the soundbar or ᛒ on the remote control.
   → **Ready for pairing:** The status indicator flashes blue quickly (●).
3. On your Bluetooth device, enable Bluetooth and search for "**JBL CINEMA SB510**" within three minutes.
   → **Connected:** The status indicator turns solid blue (●). A confirmation tone is heard.

5.2.2 Reconnect the last paired device

Your Bluetooth device is retained as a paired device when the soundbar goes to standby mode. Next time you switch to the Bluetooth source, the soundbar reconnects the last paired device automatically.

5.2.3 Connect to another Bluetooth device



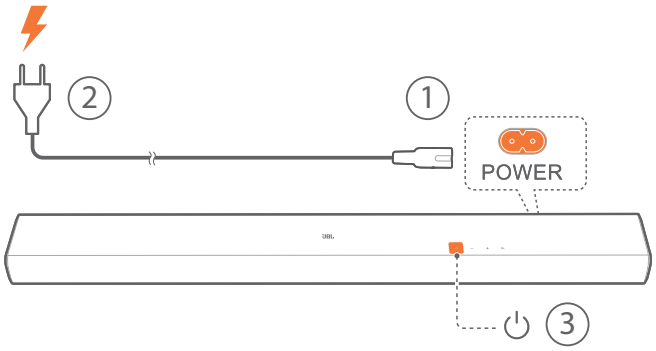
1. In the Bluetooth source, hold ⮜ on the soundbar or ᛒ on the remote control until the status indicator flashes blue.
   → The soundbar enters the Bluetooth pairing mode.
2. Follow Step 3 under "5.2.1 Connect a Bluetooth device".
   - If the device has ever been paired with the soundbar, first unpair "**JBL CINEMA SB510**" on the device.

NOTES:

– The Bluetooth connection will be lost if the distance between the soundbar and Bluetooth device exceeds 10 m / 33 ft.
– Electronic devices may cause radio interference. Devices that generate electromagnetic waves must be kept away from the soundbar, such as microwaves and wireless LAN devices.

6. PLAY

6.1 Power-on/Auto standby/Auto wakeup



Switch on

1. Connect the soundbar to power by using the supplied power cord.
2. To switch on, press ⏻ on the soundbar or on the remote control.

NOTES:

– Use the supplied power cord only.
– Before switching on the soundbar, make sure that you have completed all other connections (See "5.1 TV connection").

Auto standby

If the soundbar is inactive for more than 10 minutes, it will switch to standby mode automatically.

→ Next time you switch on the soundbar, it returns to the last selected source.

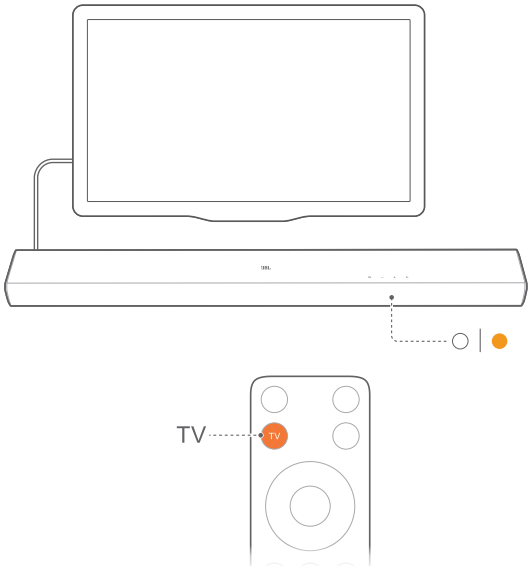
Auto wakeup

In standby mode, the soundbar will wake up automatically when

- the soundbar is connected to your TV through the HDMI ARC connection and your TV is switched on;
- the soundbar is connected to your TV through an optical cable and audio signals are detected from the optical cable.

6.2 Play from the TV source

With the soundbar connected, you can enjoy TV audio from the soundbar speakers.



1. Make sure that your TV is set to support external speakers and the built-in TV speakers are disabled. Refer to the owner's manual of your TV for more information.
2. Make sure that the soundbar has been properly connected to your TV (See "5.1 TV connection").
3. To select the TV source, press ↩ repeatedly on the soundbar or **TV** on the remote control.
   → When playing through an HDMI ARC cable, the status indicator turns solid white (○).
   → When playing through an optical cable, the status indicator turns solid amber (●).

6.2.1 TV remote control setup

To use your TV remote control for both your TV and the soundbar, check that your TV supports HDMI-CEC. If your TV does not support HDMI-CEC, follow the steps under "6.2.2 TV remote control learning".

HDMI-CEC

If your TV supports HDMI-CEC, enable the functions as instructed in your TV's user manual. You can control the volume +/-, sound source, and power on/standby functions on your soundbar through the TV remote control.

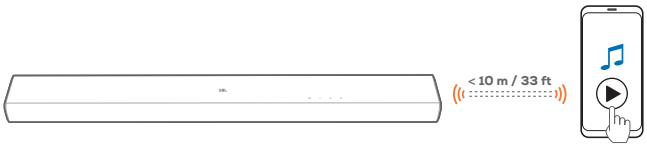
6.2.2 TV remote control learning

Through IR learning, you can program the soundbar to accept IR commands from your TV remote control, and then use your TV remote control for simple commands.

1. Press ⏻ to switch on.
2. Hold ⏻ and + together for more than 10 seconds until the status indicator flashes amber.
   → The soundbar enters the TV remote control learning mode.
3. Point your TV remote control at the soundbar. Follow the instructions below:
   a) On the soundbar, hold one of these buttons: +, -, ⮜ and ⏻ until the status indicator flashes red three times.
   b) On your TV remote control, press the desired button twice.
      → When the status indicator on the soundbar flashes amber, the function of the soundbar button is learnt by your TV remote control button.
4. Repeat Step 3 to complete the button learning.
5. To exit the TV remote control learning mode, hold ⏻ and + on the soundbar until the status indicator flashes amber three times.

6.3 Play from the Bluetooth source

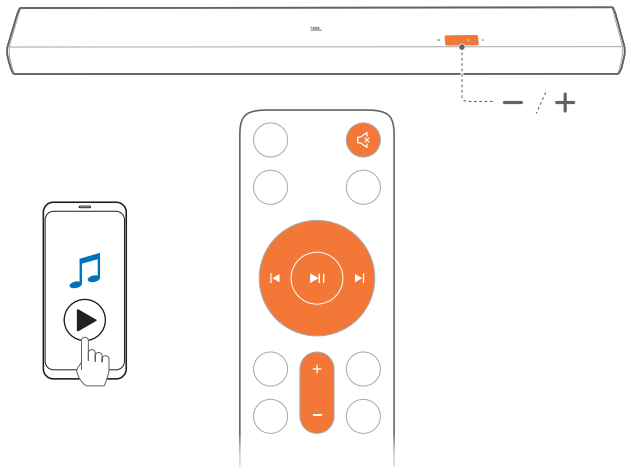
Through Bluetooth, stream audio from your Bluetooth device to the soundbar.



1. Check that the soundbar has been properly connected to your Bluetooth device (See "5.2 Bluetooth connection").
2. To select the Bluetooth source, press ⮜ repeatedly on the soundbar or ᛒ on the remote control.
3. Start audio play on your Bluetooth device.
4. Adjust the volume on the soundbar or your Bluetooth device.

6.3.1 Control music playback

In Bluetooth mode, you can control music playback through the buttons on the remote control or on the soundbar.

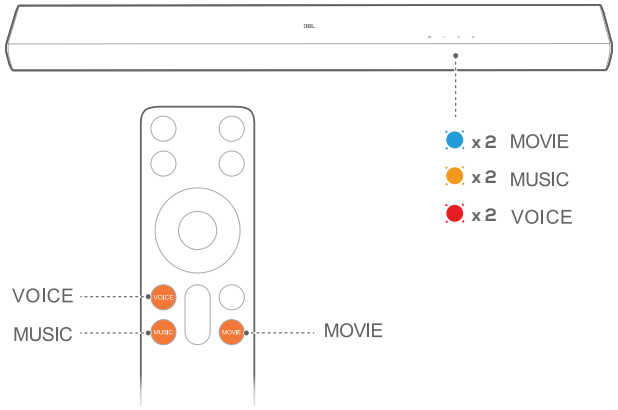


Button	Function
⏮	Skip to the previous track.
⏭	Skip to the next track.
⏯	Start or pause playback.
+ / -	Increase or decrease the volume.
🔇 (Mute)	Mute or unmute.

7. SOUND SETTINGS

7.1 Pre-defined EQ settings

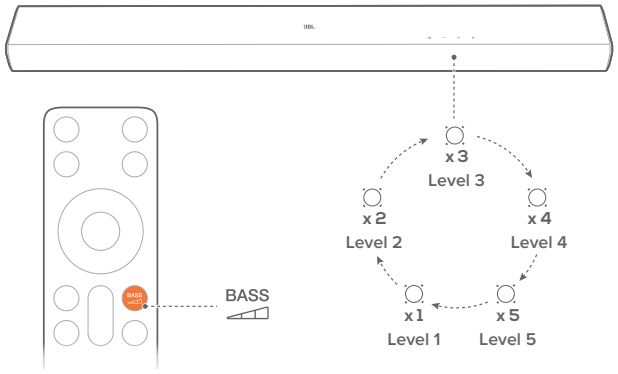
With the remote control, select the pre-defined EQ (equalizer) effects to suit your video or music.



- **MOVIE**: sound mode for movies
  → The status indicator slowly flashes blue twice (), if the movie mode is enabled on the soundbar.
- **MUSIC**: sound mode for music
  → The status indicator slowly flashes amber twice (), if the music mode is enabled on the soundbar.
- **VOICE:** sound mode for TV programs such as news and weather forecasts
  → The status indicator slowly flashes red twice (), if the voice mode is enabled on the soundbar.

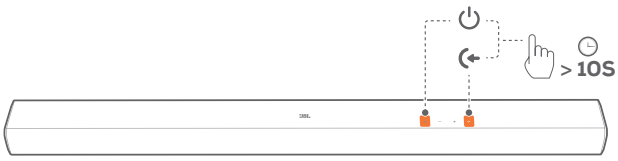
7.2 Bass adjustment

You can make bass adjustment as needed.



- On the remote control, press **BASS** to toggle between bass levels: Level 1, 2, 3, 4, 5 (**Default: "Level 3"**).

8. RESTORE FACTORY SETTINGS



1. Press ⏻ to switch on.
2. Hold ⏻ and ⏎ on the soundbar for more than 10 seconds to restore factory settings.
   → All your personalized settings will be removed from the soundbar.

9. PRODUCT SPECIFICATIONS

General specification

- Model: CINEMA SB510
- Sound system: 3.1 channel
- Power supply: 100 - 240 V AC, ~ 50/60 Hz
- Total speaker power output (Max @THD 1%): 200 W
- Soundbar output power (Max @THD 1%): 150 W
- Subwoofer output power (Max. @THD 1%): 50 W
- Soundbar transducer: 3x (45 x 80) mm racetrack drivers
- Subwoofer transducer: 1x (70 x 88) mm, built-in subwoofer
- Standby power: < 0.5 W
- Operating temperature: 0°C - 45 °C

HDMI specification

- HDMI ARC (Audio Return Channel): 1
- HDMI HDCP version: 1.4

Audio specification

- Frequency response: 55 Hz - 20 kHz (-10 dB)
- Audio inputs: 1 Optical, Bluetooth and USB (USB playback is available in US version. For other versions, USB is for Service only.)

USB specification

- USB port: Type A
- USB rating: 5 V DC, 0.5 A
- Supporting file formats: mp3
- MP3 codec: MPEG 1 Layer 2/3, MPEG 2 Layer 3, MPEG 2.5 Layer 3
- MP3 sampling rate: 16 - 48 kHz
- MP3 bitrate:
  MPEG 1 Layer 1: 32 kbps - 448 kbps;
  MPEG 1 Layer 2: 32 kbps - 384 kbps;
  MPEG 1 Layer 3: 32 kbps - 320 kbps;
  MPEG 2/2.5 Layer 1: 32 kbps - 256 kbps;
  MPEG 2/2.5 Layer 2/3: 8 kbps - 160 kbps

Wireless specification

- Bluetooth version: 5.3
- Bluetooth profile: A2DP 1.3, AVRCP 1.6
- Bluetooth transmitter frequency range:
  2400 MHz - 2483.5 MHz
- Bluetooth Max. transmitting power: <10 dBm (EIRP)
- Bluetooth modulation: GFSK, π/4 DQPSK, 8DPSK

Dimensions

- Soundbar dimensions (W x H x D):
  950 x 67 x 105 mm / 37.4” x 2.6” x 4.1”
- Soundbar weight: 3.5 kg / 7.7 lbs
- Packaging dimensions (W x H x D):
  1112 x 116 x 164 mm / 43.8” x 4.6” x 6.5”
- Packaging weight: 5.0 kg / 11.0 lbs

10. TROUBLESHOOTING

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

System

The unit will not turn on.

- Check if the power cord is plugged into power and the soundbar.

The soundbar has no response to button pressing.

- Restore the soundbar to factory settings (See “8. RESTORE FACTORY SETTINGS”).

Sound

No sound from the soundbar

- Make sure that the soundbar is not muted.
- Select the correct audio input source on the remote control.
- Connect the soundbar to your TV or other devices properly.
- Restore the soundbar to its factory settings by holding ⏻ and ⏪ on the soundbar for more than 10 seconds.

Distorted sound or echo

- If you play audio from your TV through the soundbar, make sure that your TV is muted or the built-in TV speaker is disabled.

Bluetooth

A device cannot be connected with the soundbar.

- Check if you have enabled Bluetooth on the device.
- If the soundbar has been paired with another Bluetooth device, reset Bluetooth (see “5.2.3 Connect to another Bluetooth device”).

Poor audio quality from a connected Bluetooth device

- The Bluetooth reception is poor. Move the source device closer to the soundbar, or remove any obstacle between the source device and the soundbar.

The connected Bluetooth device connects and disconnects constantly.

- The Bluetooth reception is poor. Move the source device closer to the soundbar, or remove any obstacle between the source device and the soundbar.
- For some Bluetooth devices, the Bluetooth connection can be deactivated automatically to save power. This does not indicate any malfunction of the soundbar.

Remote control

The remote control does not work.

- Check if the batteries are drained. If so, replace them with new ones.
- Reduce the distance and angle between the remote control and the main unit.

Failed to complete the TV remote control learning.

- Check if you are using an infra-red TV remote control. The IR learning is not supported by a Bluetooth TV remote control.

11. TRADEMARKS

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