

Uputstvo za upotrebu (EN)

SAMSUNG soundbar zvučnik HW-S60A/EN

SAMSUNG



Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

<https://tehnoteka.rs/p/samsung-soundbar-zvucnik-hw-s60aen-akcija-cena/>

SAMSUNG

FULL MANUAL

HW-S60A / S61A

Imagine the possibilities









Thank you for purchasing this Samsung product.

To receive more complete service, please register
your product at www.samsung.com/register

SAFETY INFORMATION

SAFETY WARNINGS

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
Refer to the table below for an explanation of symbols which may be on your Samsung product.

	<p style="text-align: center;">CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN.</p>	
	<p>This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.</p>	
	<p>This symbol indicates that this product comes with important literature concerning operation and maintenance.</p>	
	<p>Class II product : This symbol indicates that a safety connection to electrical earth (ground) is not required. If this symbol is not present on a product with a power cord, the product MUST have a reliable connection to protective earth (ground).</p>	
	<p>AC voltage : Rated voltage marked with this symbol is AC voltage.</p>	
	<p>DC voltage : Rated voltage marked with this symbol is DC voltage.</p>	
	<p>Caution. Consult Instructions for use : This symbol instructs the user to consult the user manual for further safety related information.</p>	

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CAUTION

- Do not expose this apparatus to dripping or splashing. Do not put objects filled with liquids, such as vases, on the apparatus.
- To turn this apparatus off completely, you must pull the power plug out of the wall socket. Consequently, the power plug must be easily and readily accessible at all times.

FCC NOTE (for U.S.A):

FCC Supplier's Declaration of Conformity

Responsible Party - U.S. Contact Information:

Samsung Electronics America, Inc.
85 Challenger Road.
Ridgefield Park, NJ 07660
Phone: 1-800-SAMSUNG (726-7864)

FCC Compliance Statement :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution :

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

Class B FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorienting or relocating the receiving antenna.
- Increasing the separation between the equipment and receiver.
- Connecting the equipment to an outlet that is on a different circuit than the radio or TV.
- Consulting the dealer or an experienced radio/TV technician for help.


FCC Radiation Exposure Statement :

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated so there is at least 8 inches (20 cm) between the radiator and your body. This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

CALIFORNIA USA ONLY (Applicable for networking models only.)

This Perchlorate warning applies only to primary CR(Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA "Perchlorate Material - special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate."

Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website:www.samsung.com/recycling Or call, 1-800-SAMSUNG

 **WARNING: Cancer and Reproductive Harm**
- www.P65Warnings.ca.gov.

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1. Read these instructions.
2. Keep these Instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.

7. Do not block any ventilation openings.
Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug.
A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.



14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

PRECAUTIONS

1. Ensure that the AC power supply in your house complies with the power requirements listed on the identification sticker located on the bottom of your product. Install your product horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4 inches). Make sure the ventilation slots are not covered. Do not place the unit on amplifiers or other equipment which may become hot. This unit is designed for continuous use. To fully turn off the unit, disconnect the AC plug from the wall outlet. Unplug the unit if you intend to leave it unused for a long period of time.
2. During thunderstorms, disconnect the AC plug from the wall outlet. Voltage peaks due to lightning could damage the unit.
3. Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and cause the unit to malfunction.

4. Protect the product from moisture (i.e. vases), and excess heat (e.g. a fireplace) or equipment creating strong magnetic or electric fields. Unplug the power cable from the AC wall socket if the unit malfunctions. Your product is not intended for industrial use. It is for personal use only. Condensation may occur if your product has been stored in cold temperatures. If transporting the unit during the winter, wait approximately 2 hours until the unit has reached room temperature before using.

5. The battery used with this product contains chemicals that are harmful to the environment. Do not dispose of the battery in the general household trash. Do not expose the battery to excess heat, direct sunlight, or fire. Do not short circuit, disassemble, or overheat the battery.

CAUTION : Danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type.

Fabric cleaning

Remove any dirt or stain on the product surface immediately.

Removing and cleaning can be less effective for some substances or if left for a prolonged time.

CAUTION

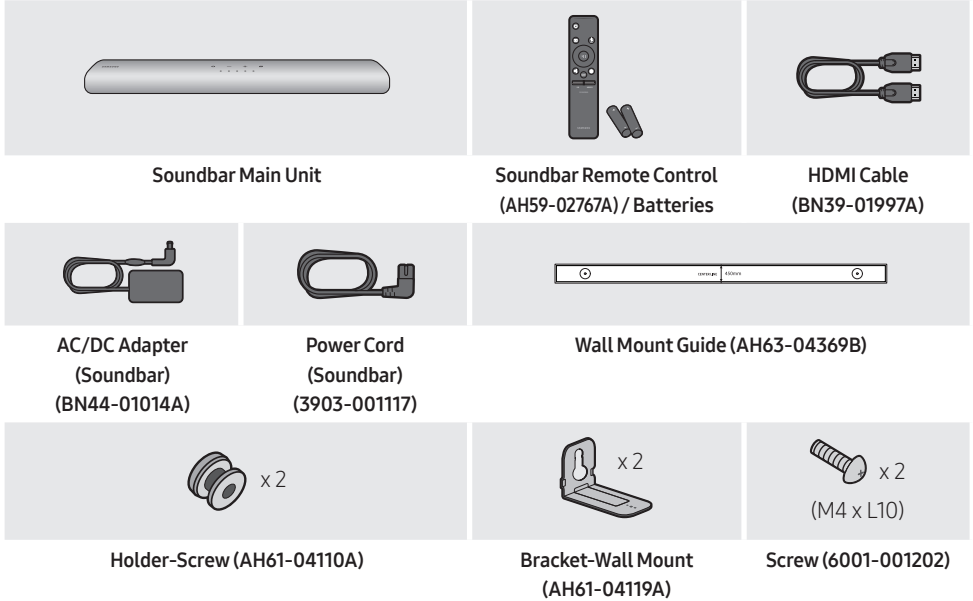
- Use a vacuum cleaner or an adhesive lint roller to remove dust, handprints, and the likes.
 - Some cleaning brushes may damage the product, depending on the materials they contain.
 - Towels and cleaning clothes may leave lint or dirt on the product.
- Do not use a nail or other tools to scratch the dirt off. It may damage the fabric.
- To remove oil or liquid stains, use a clean white cloth moist with water. If the stain persists, wipe it with a mixture of water and neutral detergent (such as dishwashing soaps) and a cloth.
 - A non-neutral detergent or cleaner may cause discoloration or fabric damage.
 - After cleaning, use a dry cloth or hairdryer to dry the area.
 - Do not use excessive force to avoid discoloration or fabric damage.

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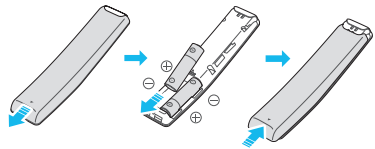
01 CHECKING THE COMPONENTS



- For more information about the power supply and power consumption, refer to the label attached to the product. (Label: Bottom of the Soundbar Main Unit)
- To purchase additional components or optional cables, contact a Samsung Service Center or Samsung Customer Care.
- For more information about the wallmount see page 35.
- Design, specifications, and App screen are subject to change without prior notice.
- The appearance of the accessories may differ slightly from the illustrations above.

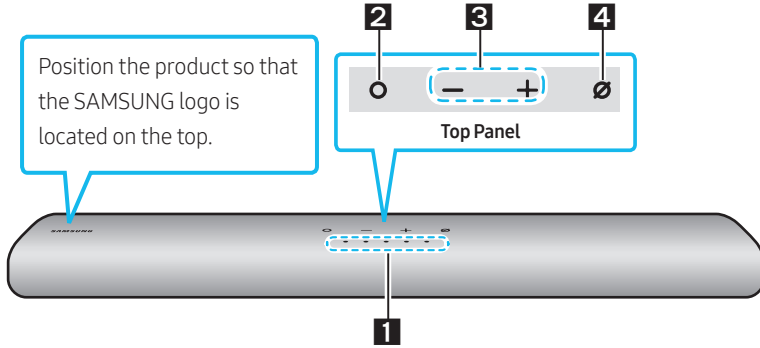
Inserting Batteries before using the Remote Control (AA batteries X 2)

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


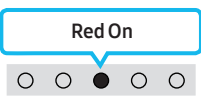




02 PRODUCT OVERVIEW

Top Panel of the Soundbar

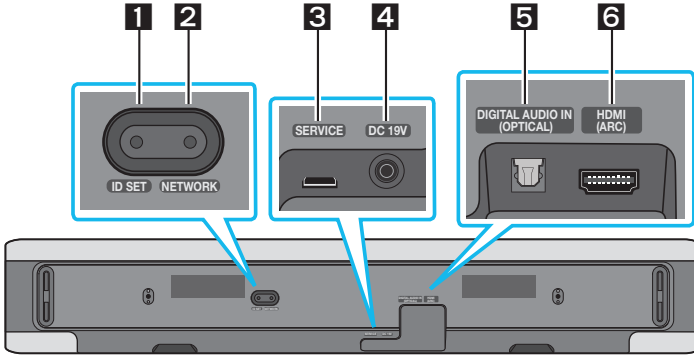


<p>1</p>	<p>LED indicator</p>	<p>The LED Indicator flashes, glows, or changes color depending on the Soundbar's current mode or status. The color of the LED indicator and the number of lights indicate the active mode as described below.</p> <table border="1" data-bbox="266 754 1025 834"> <tr> <td data-bbox="266 754 404 834"> White LED </td> <td data-bbox="404 754 542 834"> White LED </td> <td data-bbox="542 754 679 834"> Multicolor LED </td> <td data-bbox="679 754 817 834"> White LED </td> <td data-bbox="817 754 1025 834"> White LED </td> </tr> </table> <ul style="list-style-type: none"> The Multicolor LED changes to White, Cyan, Green, Red, and Blue depending on the mode or status. 	 White LED	 White LED	 Multicolor LED	 White LED	 White LED			
 White LED	 White LED	 Multicolor LED	 White LED	 White LED						
<p>2</p>	<p>Multi Function Button</p>	<ul style="list-style-type: none"> In standby mode, press the ○ (Multi Function) button to turn on the Soundbar. Press the ○ (Multi Function) button to change the mode. Each time you change the mode, the LED lights in white and then turns off. <table border="1" data-bbox="266 1026 1025 1209"> <tr> <td data-bbox="266 1026 367 1137"> <p>LED Indicator</p> </td> <td data-bbox="367 1026 583 1137"> <p>White On -> Off</p> </td> <td data-bbox="583 1026 799 1137"> <p>White On -> Off</p> </td> <td data-bbox="799 1026 1025 1137"> <p>White On -> Off</p> </td> </tr> <tr> <td data-bbox="266 1137 367 1209"> </td> <td data-bbox="367 1137 583 1209"> <p>"Digital Audio In" or "TV ARC"</p> </td> <td data-bbox="583 1137 799 1209"> <p>"Wi-Fi"</p> </td> <td data-bbox="799 1137 1025 1209"> <p>"Bluetooth"</p> </td> </tr> </table>	<p>LED Indicator</p>	<p>White On -> Off</p>	<p>White On -> Off</p>	<p>White On -> Off</p>		<p>"Digital Audio In" or "TV ARC"</p>	<p>"Wi-Fi"</p>	<p>"Bluetooth"</p>
<p>LED Indicator</p>	<p>White On -> Off</p>	<p>White On -> Off</p>	<p>White On -> Off</p>							
	<p>"Digital Audio In" or "TV ARC"</p>	<p>"Wi-Fi"</p>	<p>"Bluetooth"</p>							
<p>3</p>	<p>Volume Button</p>	<p>Press the - + (Volume) button to adjust the volume.</p>								

4	Mic On/Off Button	Press the  (Mic On/Off) button to turn the microphone on or off. When the microphone is off, the LED Indicator will light red.		
		LED Indicator		
			"Mic Off"	"Mic On"

- When you plug in the AC cord, the power button will begin working in 4 to 6 seconds.
- When you turn on this unit, there will be a 4 to 5 second delay before it produces sound.
- If you hear sounds from both the TV and Soundbar, go to the **Settings** menu for the TV audio and change the TV speaker to **External Speaker**.
- You can turn on and off audio feedback by using **SmartThings** app. To learn about using the **SmartThings** app, refer to "**Method 2. Connecting via Wi-Fi (Wireless Network)**".

Bottom Panel of the Soundbar

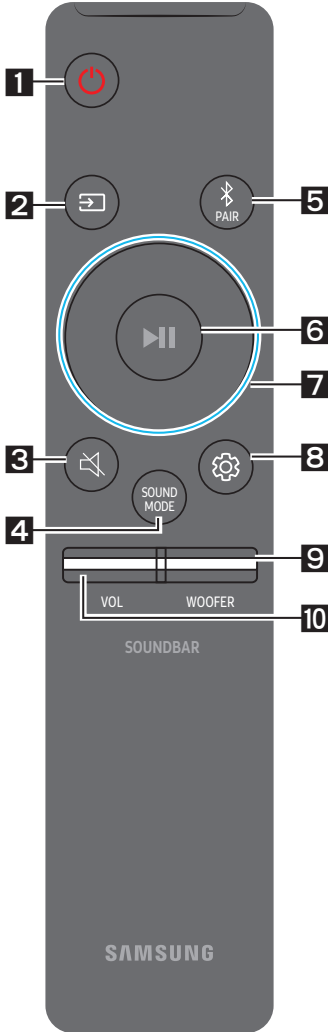


1	ID SET Press to connect the Soundbar to Surround speakers and a subwoofer wirelessly. (The surround speaker, subwoofer are sold separately.)
2	NETWORK Press to connect to a wireless network (Wi-Fi) via the SmartThings app.
3	SERVICE Connect a USB storage device to upgrade the product's software.
4	DC 19V (Power Supply In) Connect the AC/DC power adapter. (See page 17)
5	DIGITAL AUDIO IN (OPTICAL) Connect to the digital (optical) output of an external device. (See page 24)
6	HDMI (ARC) Connect to the HDMI (ARC) port on a TV. (See page 18)

- When disconnecting the power cable of the AC/DC power adapter from a wall outlet, pull the plug. Do not pull the cable.
- Do not connect this unit or other components to an AC outlet until all connections between components are complete.

03 USING THE REMOTE CONTROL

How to Use the Remote Control



1

Power

Turns the Soundbar on and off.

LED Indicator	Cyan Blinks X1	Red Blinks X3
	○ ○ ● ○ ○	○ ○ ● ○ ○
	On	Off

- **Auto Power Down Function**

The unit turns off automatically in the following situations:

- In "Digital Audio In" or "TV ARC" / "Wi-Fi" / "Bluetooth" mode if there is no audio signal for 18 minutes.

2

Source

Press to select a source connected to the Soundbar.

- **Audio Feedback On/Off**

You can turn on or off the Audio Feedback. Press and hold the **Source** button on the remote control for 5 seconds while the Soundbar is off (Standby mode).

LED Indicator	Cyan Blinks X1	Red Blinks X1
	○ ○ ● ○ ○	○ ○ ● ○ ○
	On	Off

3



Mute

Press the **Mute** button to mute the sound. Press it again to unmute the sound.

LED Indicator	Blinks X Repeatedly
	○ ○ ○ ○ ●

4**SOUND MODE**

By pressing the button, you can select the desired audio mode. Each time the mode changes, the Multicolor LED blinks in white.

LED Indicator	
	"Standard" → "Music" → "Adaptive Sound"

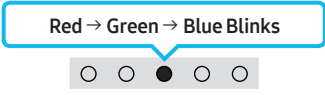

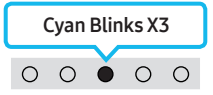

- **Standard**
Outputs the original sound.
- **Music**
Provides more natural and room filling sound for music content.
- **Adaptive Sound**
Analyzes the content in real time and automatically provides the optimal sound field based on the characteristics of the content.

5**Bluetooth PAIR**

Switch the Soundbar to Bluetooth pairing mode.

When you press the button, the LED display changes as shown below.

- Until pairing is complete, the Multicolor LED changes as **Red** → **Green** → **Blue** in turn.

LED Indicator	  
	"Ready to connect via Bluetooth."

6**▶|| (Play / Pause)**

You can also play or pause music by pressing the button.

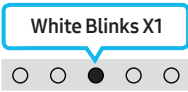
7**Up/Down/Left/Right**

Press **Up/Down/Left/Right** on the button to select or set functions.

- **Music Skip**
Press the **Right** button to select the next music file. Press the **Left** button to select the previous music file.

8**⚙️ (Sound Control)**

By pressing the button, you can select the desired audio mode. The desired item can be adjusted using the **Up/Down** buttons. Each time the mode changes, the Multicolor LED blinks in white.

LED Indicator	
🔊	“Treble” → “Bass” → “Sync” → “Center Level” → “Side Level”


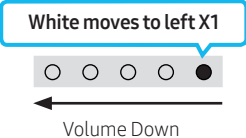
- To control the volume of the treble or bass sound, select “**Treble**” or “**Bass**” in Sound Settings, and then adjust the volume between -6~+6 by using the **Up/Down** buttons.
- Press and hold the **⚙️ (Sound Control)** button for about 5 seconds to adjust the sound for each frequency band. 150Hz, 300Hz, 600Hz, 1.2kHz, 2.5kHz, 5kHz, and 10kHz are selectable using the **Left/Right** buttons and each can be adjusted to a setting between -6 to +6 using the **Up/Down** buttons. (Make sure the Sound mode is set to “**Standard**”.)
- To control the volume of the each speaker select “**Center Level**” or “**Side Level**” in Sound Settings, and then adjust the volume between -6~+6 by using the **Up/Down** buttons.
- If the video on the TV and audio from the Soundbar are not synchronized, select “**Sync**” in Sound Control, and then set the audio delay between 0~300 milliseconds by using the **Up/Down** buttons.
- “**Sync**” is only supported for some functions.
- If Surround Speakers are connected, select “**Rear Level**” and then use the **Up/Down** buttons to adjust the volume within a -6 to +6 range.

9**WOOFER (BASS) LEVEL**



Push the button up or down to adjust the level of the woofer (bass) to -12 or between -6 to +6. To set the woofer (bass) volume level to 0 (Default), press the button.

10**VOLUME**

Push the button up or down to adjust the volume.

LED Indicator		
---------------	--	--

Using the Hidden Buttons (Buttons with more than one function)

Hidden Button		Reference page
Remote Control Button	Function	
WOOFER (Up)	TV remote control On/Off (Standby)	page16
Up	ID SET	
 (Sound Control)	7 Band EQ	page14
 (Source)	Audio Feedback On/Off (Standby)	page12

Output specifications for the different sound effect modes

Effect	Input	Output	
		With Subwoofer Only	With Subwoofer & Wireless Rear Speaker Kit
Standard	2.0 ch	2.1 ch	2.1 ch
	5.1 ch	2.1 ch	5.1 ch
Music	2.0 ch	5.1 ch	7.1 ch
	5.1 ch	5.1 ch	7.1 ch
Adaptive Sound	2.0 ch	5.1 ch	7.1 ch
	5.1 ch	5.1 ch	7.1 ch

- The Samsung Wireless Rear Speaker Kit, and Subwoofer can be purchased separately. To purchase a Kit or the Subwoofer, contact the vendor you purchased the Soundbar from.

Adjusting the Soundbar volume with a TV remote control

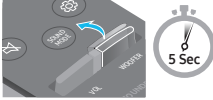

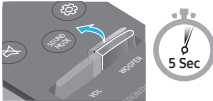

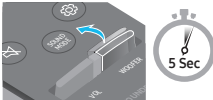

Adjust the Soundbar volume using the TV's remote control.

- This function can be used with IR remote controls only. Bluetooth remote controls (remote controls that require pairing) are not supported.
- Set the TV speaker to **External Speaker** to use this function.
- Manufacturers supporting this function:
VIZIO, LG, Sony, Sharp, PHILIPS, PANASONIC, TOSHIBA, Hisense, RCA

1. Turn Off the Soundbar.
2. Push up and hold the **WOOFER** button for 5 seconds.

Each time you push the **WOOFER** button up and hold it for 5 seconds, the mode switches in the following order: "**Off-TV Remote**" (Default mode), "**Samsung-TV Remote**", "**All-TV Remote**".

The LED indicator status changes each time the mode is changed, as shown below.

Remote Control Button	LED Indicator	Status
	<div style="border: 1px solid blue; padding: 2px; display: inline-block;">Red Blinks X1</div>  "Off-TV Remote" (Default mode)	Disable the TV remote control.
	<div style="border: 1px solid cyan; padding: 2px; display: inline-block;">Cyan Blinks X1</div>  "Samsung-TV Remote"	Enable a Samsung TV's IR remote control.
	<div style="border: 1px solid blue; padding: 2px; display: inline-block;">Blue Blinks X1</div>  "All-TV Remote"	Enable a third-party TV's IR remote control.

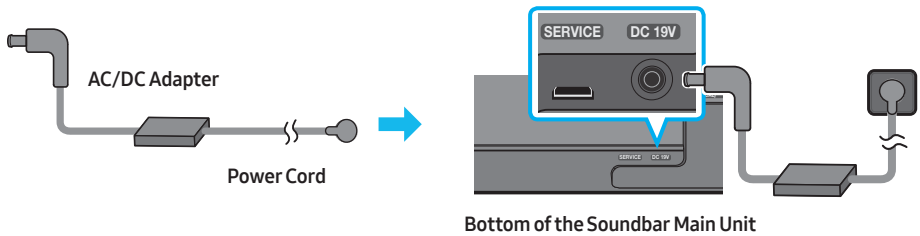
04 CONNECTING THE SOUNDBAR

Connecting Electrical Power

Use the power components to connect the Soundbar to an electrical outlet in the following order:

- For more information about the required electrical power and power consumption, refer to the label attached to the product. (Label: Bottom of the Soundbar Main Unit)

1. First connect the power cable to the AC/DC adapter.
Connect the AC/DC adapter (with the power cable) to the Soundbar.
2. Connect the power cord to a wall socket.



NOTES

- If you unplug and reconnect the power cord when the product is turned on, the Soundbar turns on automatically.
- Make sure to rest the AC/DC Adapter flat on a table or the floor. If you place the AC/DC Adapter so that it is hanging with the AC cord input facing upwards, water or other foreign substances could enter the Adapter and cause the Adapter to malfunction.

Connecting an SWA-9100S (Sold Separately), SWA-W500 (Sold Separately) to your Soundbar

Expand to true wireless surround sound by connecting the Samsung Wireless Rear Speaker Kit (SWA-9100S, sold separately) and Wireless Subwoofer (SWA-W500, sold separately) to your Soundbar. For detailed information on connections, see the Samsung Wireless Rear Speaker Kit and Wireless Subwoofer manual.

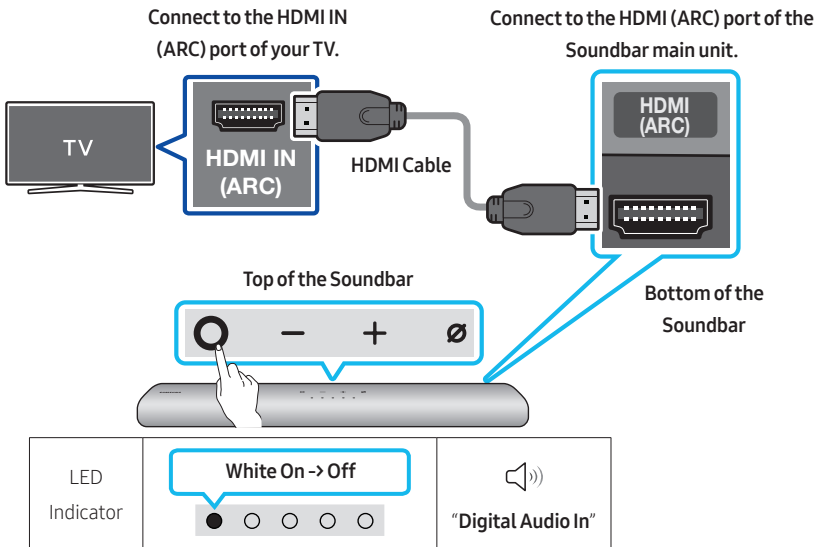
05 USING A WIRED CONNECTION TO THE TV

Method 1. Connecting with HDMI


⚠ CAUTION

- When both the HDMI cable and optical cable are connected, the HDMI signal is received first.
- To connect the HDMI cable between the TV and Soundbar, be sure to connect the terminals marked ARC. Otherwise, the TV sound may not be output.
- The recommended cable is **High Speed HDMI Cable with Ethernet**.

Connecting the TV that supports HDMI ARC (Audio Return Channel)



1. With the Soundbar and TV turned off, connect the HDMI cable as shown in the figure.
2. Turn on the Soundbar and TV.
3. TV sound is output from the Soundbar.

- When the TV sound is not output, press the **○ (Multi Function)** button at the top of the Soundbar or the  **(Source)** button on the remote control to select the **“Digital Audio In”** mode.
- When the sound is not output, check the HDMI Cable connection again.
- Use the volume buttons on the TV’s remote control to change the volume on the Soundbar.

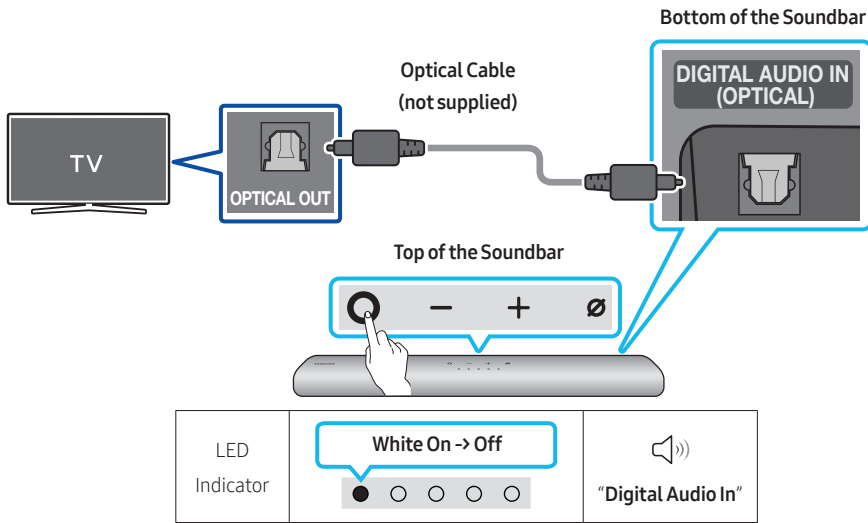
NOTES

- When you connect the TV that supports the HDMI ARC (Audio Return Channel) to the Soundbar with an HDMI cable, you can transmit the digital video and audio data without connecting a separate optical cable.
- We recommend you use a coreless HDMI cable if possible. If you use a cored HDMI cable, use one whose diameter is less than 0.55 inches (14 mm).
- This function is not available if the HDMI cable does not support ARC.
- When the audio in a broadcast is encoded in Dolby Digital and the “Digital Output Audio Format” on your TV is set to PCM, we recommend that you change the setting to Dolby Digital. When the setting on the TV is changed, you will experience better sound quality. (The TV menu may use different words for Dolby Digital and PCM depending on the TV manufacturer.)

Method 2. Connecting using an Optical Cable

Pre-connection Checklist

- When both the HDMI cable and optical cable are connected, the HDMI signal is received first.
- When you use an optical cable and the terminals have covers, be sure to remove the covers.



1. With the TV and Soundbar turned off, connect the **DIGITAL AUDIO IN (OPTICAL)** port on the Soundbar and the **OPTICAL** output port on the TV with the optical cable (not supplied), as shown in the figure.
2. Turn on the Soundbar and TV.
3. Press the **Multi Function** button at the top of the Soundbar or the **Source** button on the remote control and then select the **"Digital Audio In"** mode. Then the announcement, **"Digital Audio In"** is output.
4. The TV sound is output from the Soundbar.

06 USING A WIRELESS CONNECTION TO THE TV






Method 1. Connecting via Bluetooth

When a Samsung TV is connected using Bluetooth, you can hear stereo sound without the hassle of cabling.



- Only one Samsung TV can be connected at a time.
- Samsung TV that supports Bluetooth can be connected. Check the specifications of your TV.

The initial connection

<p>1. Bluetooth Pairing button</p>  <p>OR</p> <p>When in "Bluetooth" mode</p> 	<p>LED Indicator</p> <div data-bbox="423 587 745 703"><p>Red → Green → Blue Blinks</p><p>Pairing</p></div> <p>→</p> <div data-bbox="818 587 1022 703"><p>Cyan Blinks X3</p><p>Connection is complete</p></div> <ul style="list-style-type: none">• Until pairing is complete, the Multicolor LED changes as Red → Green → Blue in turn. <p> "Ready to connect via Bluetooth."</p>
---	--

2. Select Bluetooth mode on the Samsung TV.

(e.g. Home (🏠) → Settings (⚙️) → Sound → Sound Output → Bluetooth Speaker List → [AV] Samsung Soundbar S60A / [AV] Samsung Soundbar S61A (Bluetooth))

3. Select "[AV] Samsung Soundbar S60A" / "[AV] Samsung Soundbar S61A" from the list on TV's screen.

An available Soundbar is indicated with **"Need Pairing"** or **"Paired"** on the TV's Bluetooth device list. To connect the Samsung TV to the Soundbar, select the message, and then establish a connection.


4. You can now hear Samsung TV sound from the Soundbar.

- If there is a connection log between the Soundbar and Samsung TV, the Soundbar is automatically connected by changing its mode to **"Bluetooth"**

If the device fails to connect

- If you have an existing Soundbar (e.g., **[AV] Samsung Soundbar S60A / [AV] Samsung Soundbar S61A**) on the list of speakers on the Samsung TV, delete it.
- Then repeat steps 1 through 3.

Disconnecting the Soundbar from the Samsung TV

Press the **○ (Multi Function)** button at the top of the Soundbar or the  **(Source)** button on the remote control to select the mode other than “**Bluetooth**”.

- Disconnecting takes time because the Samsung TV must receive a response from the Soundbar. (The time required may differ, depending on the Samsung TV model.)

Notes on Bluetooth connection

- Locate a new device within 3.28 ft (1 m) to connect via Bluetooth communication.
- If asked for a PIN code when connecting a Bluetooth device, enter <0000>.
- The Soundbar automatically turns off after 18 minutes in the Ready state.
- The Soundbar may not perform Bluetooth search or connection correctly under the following circumstances:
 - If there is a strong electrical field around the Soundbar.
 - If several Bluetooth devices are simultaneously paired with the Soundbar.
 - If the Bluetooth device is turned off, not in place, or malfunctions.
- Electronic devices may cause radio interference. Devices that generate electromagnetic waves must be kept away from the Soundbar main unit - e.g., microwaves, wireless LAN devices, etc.

Method 2. Connecting via Wi-Fi

Pre-connection Checklist

- Wi-Fi connection is available only on Samsung TV.
- Check whether **the wireless router (Wi-Fi)** is turned on and the **TV is connected to the router**.
- The TV and Soundbar must be connected to the same wireless network (Wi-Fi).
- If your wireless router (Wi-Fi) uses a DFS channel, you will not be able to establish a Wi-Fi connection between the TV and Soundbar. Contact your Internet service provider for details.
- Because the menus may differ depending on the year of manufacture, refer to your TV manual.
- To connect the TV to the Soundbar via Wi-Fi, connect the Soundbar to the wireless router first. See page 28, for details on how to establish a Wi-Fi connection.

1. For more information about Wi-Fi connection to the Soundbar, see page 28, "**Method 2.**

Connecting via Wi-Fi (Wireless Network)".

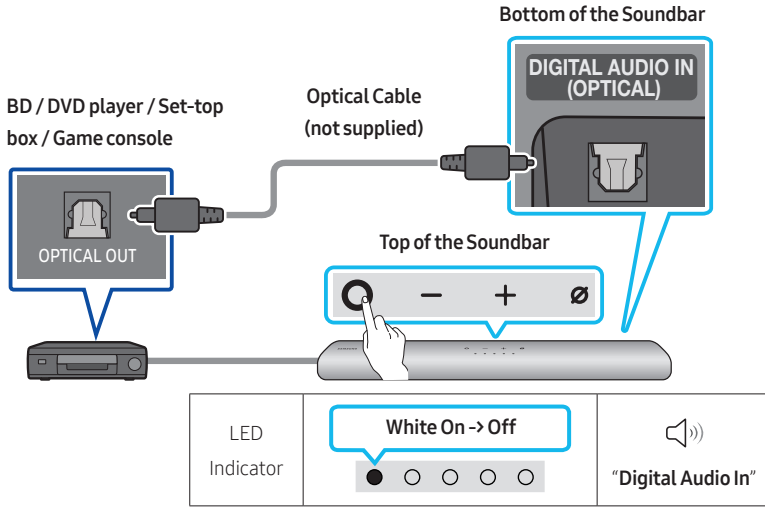
2. Change the input source of the TV by using the Audio menu to Soundbar.

- **Samsung TVs released in 2017 or later**

Home (🏠) → Settings (⚙️) → Sound → Sound Output → [AV] Samsung Soundbar S60A /
[AV] Samsung Soundbar S61A (Wi-Fi)

07 CONNECTING AN EXTERNAL DEVICE

Connecting using an Optical Cable



1. With the external device and Soundbar turned off, connect the **DIGITAL AUDIO IN (OPTICAL)** port on the Soundbar and the **OPTICAL** output port on the external device with the optical cable (not supplied), as shown in the figure.
2. Turn on the Soundbar and external device.
3. Press the **○ (Multi Function)** button at the top of the Soundbar or the **☐ (Source)** button on the remote control and then select the **"Digital Audio In"** mode. Then the announcement, **"Digital Audio In"** is output.
4. The external device sound is output from the Soundbar.

08 CONNECTING A MOBILE DEVICE

Method 1. Connecting via Bluetooth

When a mobile device is connected using Bluetooth, you can hear stereo sound without the hassle of cabling.



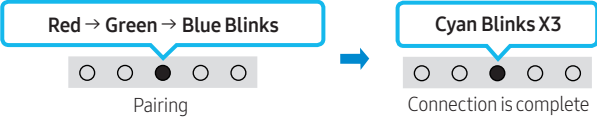

- When you connect a paired Bluetooth device with the Soundbar off, the Soundbar automatically turns on.



mobile device

The initial connection

- When connecting to a new Bluetooth device, make sure the device is within 3.28 ft (1 m) distance.

1. Bluetooth Pairing button	LED Indicator
 <p>OR</p> <p>When in "Bluetooth" mode</p> 	 <ul style="list-style-type: none">• Until pairing is complete, the Multicolor LED changes as Red → Green → Blue in turn. <p> "Ready to connect via Bluetooth."</p>

2. On your device, select "[AV] Samsung Soundbar S60A / [AV] Samsung Soundbar S61A" from the list that appears.
3. Play music files from the device connected via Bluetooth through the Soundbar.

If the device fails to connect

- If you have an existing Soundbar (e.g., [AV] Samsung Soundbar S60A / [AV] Samsung Soundbar S61A) on the list of speakers on the Mobile device, delete it.
- Then repeat steps 1 and 2.

Notes on Bluetooth connection

- Locate a new device within 3.28 ft (1 m) to connect via Bluetooth communication.
- If asked for a PIN code when connecting a Bluetooth device, enter <0000>.
- The Soundbar automatically turns off after 18 minutes in the Ready state.
- The Soundbar may not perform Bluetooth search or connection correctly under the following circumstances:
 - If there is a strong electrical field around the Soundbar.
 - If several Bluetooth devices are simultaneously paired with the Soundbar.
 - If the Bluetooth device is turned off, not in place, or malfunctions.
- Electronic devices may cause radio interference. Devices that generate electromagnetic waves must be kept away from the Soundbar main unit - e.g., microwaves, wireless LAN devices, etc.
- The Soundbar supports SBC data (44.1kHz, 48kHz).
- Connect only to a Bluetooth device that supports the A2DP (AV) function.
- You cannot connect the Soundbar to a Bluetooth device that supports only the HF (Hands Free) function.
- When connecting the Soundbar to a Bluetooth device, place them as close to each other as possible.
- The farther the Soundbar and Bluetooth device are from each other, the lower the sound quality will become.

The Bluetooth connection may break when the devices are out of the effective range.


- The Bluetooth connection may not function as intended in areas with poor reception.
- A Bluetooth device may experience noise or malfunction under in the following conditions:
 - When the body is in contact with the signal transceiver on the Bluetooth device or Soundbar
 - In corners or when there is an obstacle in proximity, such as a wall or partition, where electrical changes may occur.
 - When exposed to radio interferences by other products operating on the same frequency ranges, such as medical equipment, microwave ovens, and wireless LAN devices.
 - Obstacles such as doors and walls may still impact the sound quality even when the devices are within the effective range.
- Note that your Soundbar cannot be paired with other Bluetooth devices while using the Bluetooth option.
- This wireless device may cause electrical interference during operation.

Disconnecting the Bluetooth device from a Soundbar

You can disconnect a Bluetooth device from the Soundbar. For instructions, see the Bluetooth device's user manual.

- The Soundbar will be disconnected.
- If the Soundbar is disconnected from the Bluetooth device, the multicolor LED indicator on the Soundbar blinks "**Red**" three times.

Disconnecting the Soundbar from the Bluetooth device

Press the  (**Multi Function**) button at the top of the Soundbar or the  (**Source**) button on the remote control to select the mode other than "**Bluetooth**".

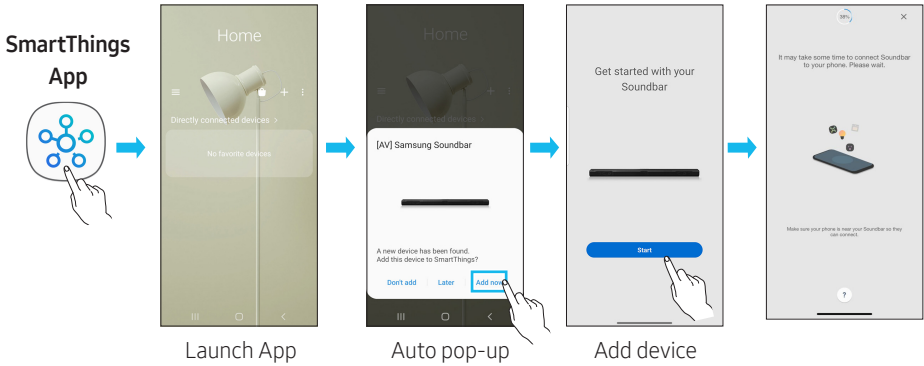
- Disconnecting takes time because the Bluetooth device must receive a response from the Soundbar. (Disconnection time may differ, depending on the Bluetooth device)
- If the Soundbar is disconnected from the Bluetooth device, the multicolor LED indicator on the Soundbar blinks "**Red**" three times.

Method 2. Connecting via Wi-Fi (Wireless Network)

To connect a Soundbar to a mobile device via a wireless network (Wi-Fi), the **SmartThings** app is required.

The initial connection

1. Install and launch the **SmartThings** app from your mobile device (smartphone or tablet).
2. On the app, follow the screen instructions to add the Soundbar.
 - The automatic pop-up (the second screenshot below) may not show on some devices. If the pop-up window does not appear, press “+” on the **Home** screen. The Soundbar is added to the app.

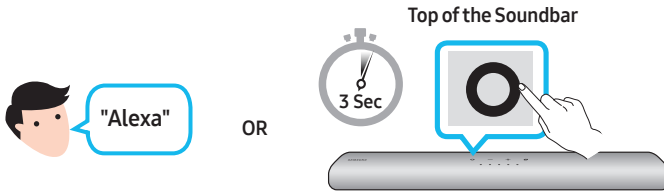


Getting Started with Amazon Alexa (Built-in Alexa)

- Amazon Alexa is a service provided by Amazon.
- **This function may not be supported depending on the model or geographical area.**
- **This function only supports some languages, and the supported functions may differ depending on the geographical area.**
- **For product specification or compatibility, refer to the Samsung website (www.samsung.com).**

Using Alexa, you can play music, listen to news, see weather forecasts, and control home appliances. To use Amazon Alexa, an Amazon account is required to connect the Soundbar over the network.

1. Install the **SmartThings** app on your mobile device and then launch it.
2. Enter the Alexa account by following the instructions on the app and then log in the service.



3. Call Alexa or press the **○ (Multi Function)** button on the Soundbar for 3 seconds to use the Alexa service.
 - Press the **○ (Multi Function)** button for 3 seconds to call Alexa. Say with the button pressed to enable voice recognition.
 - The LED indicator status on the Soundbar changes depending on the Alexa status. See page 32 for details.

Use voice commands to control the Soundbar



Trigger + Command

Things to try	Example of what to say
Volume control	"Alexa, turn up the volume. "
	"Alexa, turn down the volume "
Listening to streaming content from Amazon Music	"Alexa, play some jazz music "
Playback control	"Alexa, play next song. "
	"Alexa, stop the music. "
	"Alexa, what is this song? "
Weather information	"Alexa, what's the weather? "
Timer scheduling	"Alexa, set a timer for 10 minutes. "

Getting Started with Alexa on Amazon Product (Works with Alexa)

- This function may not be supported depending on the model or geographical area.
- This function only supports some languages, and the supported functions may differ depending on the geographical area.
- For product specification or compatibility, refer to the Samsung website (www.samsung.com).
- This service is provided by Amazon and can be terminated at any time. Samsung does not assume responsibility for service availability.
- Amazon Alexa app screen is subject to change without prior notice.

Connect and use with an Amazon product (Amazon Echo)

Use an Amazon Echo product to control your Soundbar and enjoy music services provided by Amazon Echo. To use Amazon Alexa, an Amazon account is required to connect the Soundbar over the network.

1. Install the **SmartThings** app on your mobile device and then launch it.
2. Enter the Alexa account by following the instructions on the app and then log in the service.

Use voice commands to control the Soundbar

- The Amazon Echo service you can use with your Soundbar is limited to music. Other services provided by Amazon Echo, such as news and weather, can only be accessed through your Amazon Echo product.







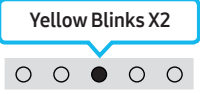


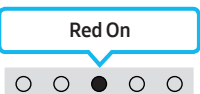
Trigger + **Command** + **Speaker name**

* To use voice commands for the Soundbar named "**Living room**"

Action	Voice Command
To set the volume level to 5	"Alexa Set the volume to 5 on Living room "
To increase the volume level	"Alexa Volume up on Living room "
To mute the sound	"Alexa Mute on Living room "
To listen to a radio station named KISS FM	"Alexa Play Kiss FM on Living room "
To play the next song	"Alexa Next song on Living room "
To stop the audio	"Alexa Stop on Living room "
To turn the audio off	"Alexa Turn off on Living room "

Alexa indicator status

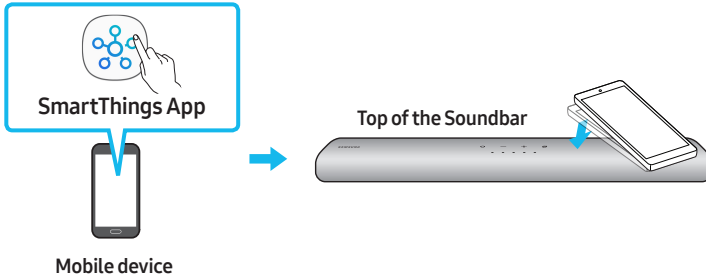
The LED indicator status on the Soundbar changes depending on the Alexa status, as shown below.

Alexa status	LED indicator on Soundbar
Idle	 Off
Listening	 Cyan On
Thinking	 Cyan Blinks X1
Speaking	
Timer Alarms and Reminders	 Cyan Blinks X2 Blue Blinks X2
Notification	 Yellow Blinks X2
Alexa service unavailable	 Red Blinks X3
Network disconnected	 Red Blinks X3
Mic Off	 Red On

Using the Tap Sound

Tap the Soundbar with your mobile device to play audio from the mobile device through the Soundbar.

- This function may not be supported, depending on the mobile device.
- This function is only compatible with Samsung mobile devices with Android 8.1 or later.



1. Turn on the **Tap Sound** function on your mobile device.
 - For details on how to turn on the function, refer to “**Enable the Tap Sound function**” below.
2. Tap the Soundbar with the mobile device. Select “**Start now**” in the displayed message window. A connection is established between the mobile device and Soundbar via Bluetooth.
3. Play audio from the mobile device through the Soundbar.
 - This function connects a mobile device to the Soundbar via Bluetooth by detecting vibration that occurs when the device touches the Soundbar.
 - Make sure the mobile device does not tap a sharp corner of the Soundbar. The Soundbar or mobile device may become scratched or damaged.
 - It is recommended that the mobile device be covered with a case. Lightly tap the wide area in the upper portion of the Soundbar, without using excessive force.
 - To use this function, update the **SmartThings** app to the latest version. The function may not be supported, depending on the app version.

Enable the Tap Sound function

Use the **SmartThings** app to turn on the **Tap View, Tap Sound** function.

1. On the mobile device, run the **SmartThings** app.
2. Select (☰ → ⌘) in the **SmartThings** app screen displayed on the mobile device.
3. Set “**Tap View, Tap Sound**” to On to allow the function to work when a mobile device moves close to the Soundbar.

NOTES

- When the mobile device is in power-saving mode, the **Tap Sound** function does not work.
- The **Tap Sound** function may not work if there are devices near the Soundbar that cause radio interference such as electric devices. Make sure devices that may cause radio interference are placed at a sufficient distance away from the Soundbar.

09 CONNECTING TO APPLE AIRPLAY 2

- This feature may not be available in some countries.

Connect and use with an Apple product

- With AirPlay 2, you can control your home's audio system from your iPhone, iPad, HomePod, or Apple TV.
- This Samsung Soundbar supports AirPlay 2 and requires iOS 11.4 or later.

NOTE

- Confirm that the Soundbar is connected to Wi-Fi. (Refer to "**Method 2. Connecting via Wi-Fi (Wireless Network)**".)

10 INSTALLING THE WALL MOUNT

Installation Precautions

- Install on a vertical wall only.
- Do not install in a place with high temperature or humidity.
- Verify whether the wall is strong enough to support the product's weight. If not, reinforce the wall or choose another installation point.
- Purchase and use the fixing screws or anchors appropriate for the kind of wall you have (plaster board, iron board, wood, etc.). If possible, fix the support screws into wall studs.
- Purchase wall mounting screws according to the type and thickness of the wall you want to mount the Soundbar on.
 - Diameter: M5
 - Length: 1 3/8 inches (35 mm) or longer recommended.
- Connect cables from the unit to external devices before you install the Soundbar on the wall.
- Make sure the unit is turned off and unplugged from the power source before you install it. Otherwise, it may cause an electric shock.

Wallmount Components



Wall Mount Guide (AH63-04369B)



Holder-Screw
(AH61-04110A)



Screw
(6001-001202)



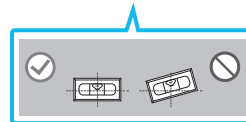
Bracket-Wall Mount (AH61-04119A)

1. Place the **Wall Mount Guide** against the wall surface.
 - The **Wall Mount Guide** must be level.
 - If your TV is mounted on the wall, install the Soundbar at least 2 inches (5 cm) below the TV.



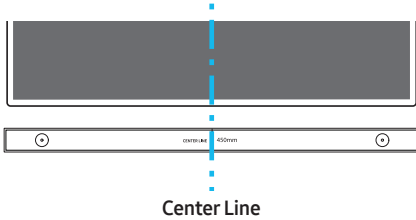
TV

↑↓ 2 inches (5 cm) or more

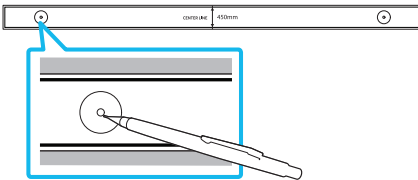


2. Align the **Wall Mount Guide's Center Line** with the center of your TV (if you are mounting the Soundbar below your TV), and then fix the **Wall Mount Guide** to the wall using tape.

- If you are not mounting below a TV, place the **Center Line** in the center of the installation area.



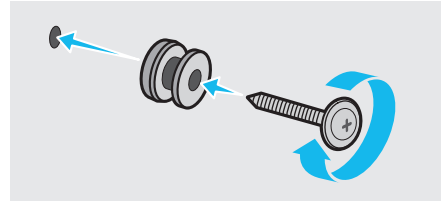
3. Use a pen to mark the positions of the holes and remove the **Wall Mount Guide**.



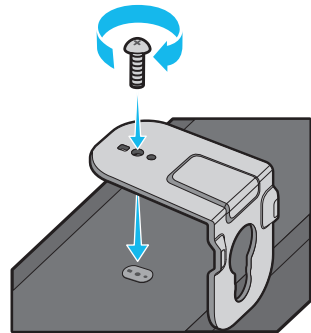
4. Using an appropriately sized drill bit, drill a hole in the wall at each marking.

- If the markings do not correspond to the positions of studs, make sure you insert appropriate anchors into the holes before you insert the support screws. If you use anchors, make sure the holes you drill are large enough for the anchors you use.

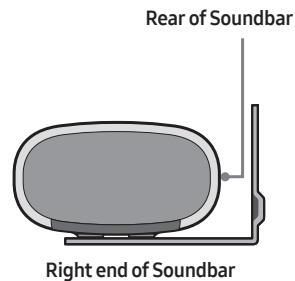
5. Push a screw (not supplied) through each **Holder-Screw**, and then screw each screw firmly into a support screw hole.



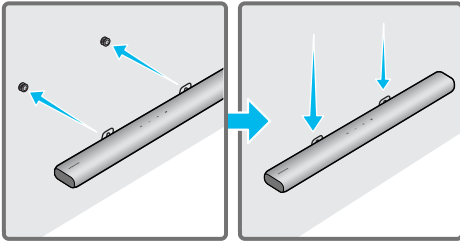
6. Install the 2 **Bracket-Wall Mounts** in the correct orientation on the bottom of the Soundbar using 2 **Screws**.



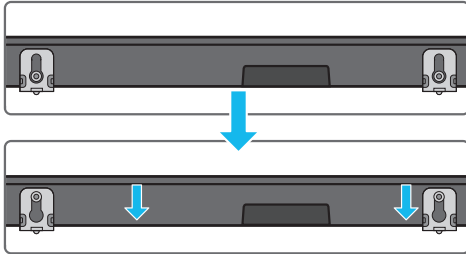
- When assembling, make sure the hanger part of the **Bracket-Wall Mounts** are located behind the rear of the Soundbar.



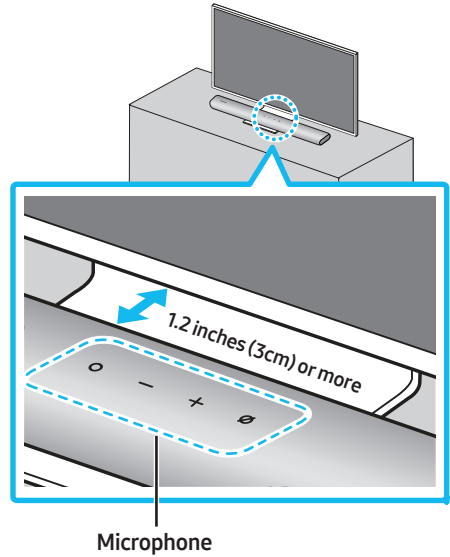
7. Install the Soundbar with the attached **Bracket-Wall Mounts** by hanging the **Bracket-Wall Mounts** on the **Holder-Screws** on the wall.



8. Slide the Soundbar down as shown below so that the **Bracket-Wall Mounts** rest securely on the **Holder-Screws**.
- Insert the **Holder-Screws** into the wide (bottom) part of the **Bracket-Wall Mounts**, and then slide the **Bracket-Wall Mounts** down so that the **Bracket-Wall Mounts** rest securely on the **Holder-Screws**.



11 INSTALLING THE SOUNDBAR IN FRONT OF TV



Installing the center of the Soundbar to the center of the TV as illustrated in the image. At this time, place the Soundbar at least 1.2 inches (3cm) away from the TV so that there is no interference with voice recognition.

NOTES

- Make sure the Soundbar is placed on a flat and solid surface.
- Insufficient gap from the TV may cause voice recognition and acoustic problems.

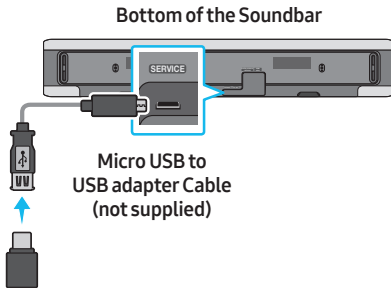
12 SOFTWARE UPDATE

Auto Update

When the Soundbar is connected to the Internet, software updates automatically occur even when the Soundbar is turned off.

- To use the Auto Update function, the Soundbar must be connected to the Internet. The Wi-Fi connection to the Soundbar will be terminated if the Soundbar's power cord is disconnected or the power is cut off. If the power is cut off, when the power comes back on or you reconnect the power cord, turn on the Soundbar, and then reconnect it to the Internet.

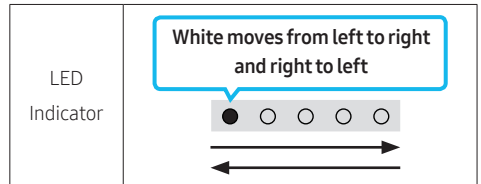
USB Update



Samsung may offer updates for the Soundbar's system firmware in the future.

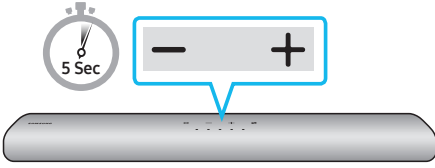
When an update is available, you can update the Soundbar by connecting the USB drive that contains the update firmware to the **SERVICE** port of the Soundbar.

1. Go to (www.samsung.com) → search for the model name from the customer support menu option.
 - For more information about update, refer to Upgrade Guide.
2. Download the upgrade file (USB type).
3. Unzip the file to create a folder with the file name.
4. Store the created folder in a USB and then connect it to the Soundbar.
5. Turn on the Soundbar. Then the product is updated within 3 minutes.

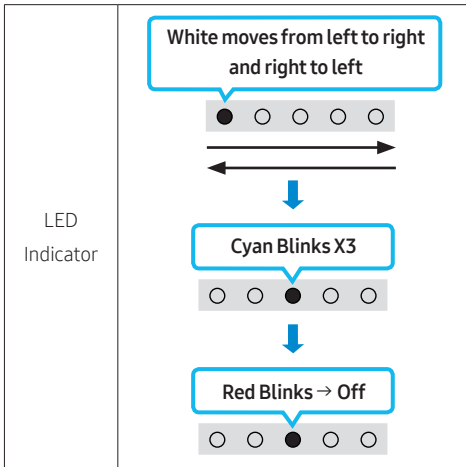


- During update, do not turn it off or remove the USB.
- If the yellow LED is on after the software update is completed, this means that an additional update is in progress. When this happens, don't turn off the power or remove the USB.
- If update does not proceed, reconnect the Soundbar power cord.
- When the latest version is installed, no update is performed.
- Depending on the USB type, update may not be supported.

Reset



With the Soundbar on, press the **— + (Volume)** buttons on the body at the same time for at least 5 seconds. The LED display changes as shown below and then the Soundbar is reset.



CAUTION

- All the settings of the Soundbar are reset. Be sure to perform this only when a reset is required.

13 TROUBLESHOOTING

Refer to the instructions below if this product does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, turn off the product, disconnect the power cord, and contact Samsung Electronics at 1-800-SAMSUNG (1-800-726-7864).

Soundbar does not turn on.

- Check whether the power cord of the Soundbar is correctly inserted into the outlet.

Soundbar works erratically.

- After removing the power cord, insert it again.
- Remove the power cord from the external device and try again.
- If there is no signal, the Soundbar automatically turns off after a certain period of time. Turn on the power. (See page 12.)

In case the remote control does not work.

- Point the remote directly at the Soundbar.
- Replace the batteries with new ones.

The red LED indicator light on the soundbar stays on.

- The microphone is turned off. Turn on the microphone. (See page 10.)

The Soundbar does not output any sound.

- The volume of the Soundbar is too low or muted. Adjust the volume.
- When any external device (STB, Bluetooth device, mobile device, etc.) is connected, adjust the volume of the external device.
- For sound output of the TV, select Soundbar. (Samsung TV: Home (🏠) → Settings (⚙️) → Sound → Sound Output → Select Soundbar)

- The cable connection to the Soundbar may not be loose. Remove the cable and connect again.
- Remove the power cord completely, reconnect, and turn the power on.
- Reset the product and try again. (See page 39.)

In case the TV is not connected via HDMI (ARC).

- Check whether the HDMI cable is correctly connected to the ARC terminal. (See page 18)
- Connection may not be possible due to the connected external device (set-top box, game console, etc.). Directly connect the Soundbar.
- HDMI-CEC may not be activated on the TV. Turn on the CEC on the TV menu. (Samsung TV: Home (🏠) → Settings (⚙️) → General → External Device Manager → Anynet+ (HDMI-CEC) ON)

There is no sound in when connecting to the TV in HDMI (ARC) mode.

- Your device is unable to play the input signal. Change the TV's audio output to PCM or Dolby Digital. (For a Samsung TV: Home (🏠) → Settings (⚙️) → Sound → Expert Settings → Digital Output Audio Format)

The Soundbar will not connect via Bluetooth.

- When connecting a new device, switch to Bluetooth Pairing for connection. (Press the **PAIR** button on the remote control or press the **Mic On/Off** button on the body for at least 5 seconds.)
- If the Soundbar is connected to another device, disconnect that device first to switch the device.
- Reconnect it after removing the Bluetooth speaker list on the device to connect. (Samsung TV: Home (🏠) → Settings (⚙️) → Sound → Sound Output → Bluetooth Speaker List)
- Remove and reconnect the power plug, then try again.
- Reset the product and try again. (See page 39.)

The sound drops out when connected via Bluetooth.

- Some devices can cause radio interference if they are located too close to the Soundbar. e. g. microwaves, wireless routers, etc.
- If your device that is connected via Bluetooth moves too far away from the Soundbar, it may cause the sound to drop out. Move the device closer to the Soundbar.
- If a part of your body is in contact with the Bluetooth transceiver or the product is installed on metal furniture, the sound may drop out. Check the installation environment and conditions for use.

Unable to connect to Wi-Fi.

- Check whether your wireless router is on.
- Turn off the router, turn it back on, and then try again.
- The Soundbar will not connect if the wireless signal is too weak. Try moving the router closer to the Soundbar, or eliminating any obstacles that are between the Soundbar and the router, if possible.
- If your wireless router is new, you will need to reconfigure the speaker's network settings.

The Soundbar does not turn on automatically with the TV.

- When you turn off the Soundbar while watching TV, power synchronization with the TV is disabled. First turn off the TV.

14 LICENSE



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16 IMPORTANT NOTES ABOUT SERVICE

- Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.
- An administration fee may be charged if either:
 - a. An engineer is called out to your home at your request and there is no defect in the product.
 - b. You bring the unit to a repair center and there is no defect in the product.
- You will be advised of the amount of the administration fee before any work is done or a home visit is made.
- If you have a problem with this product, we strongly recommend you read the appropriate section of this manual, visit the Support page for your product at www.samsung.com, or call Samsung Product Support (1-800-726-7864) to find an answer before you contact a service center for a repair.

17 SPECIFICATIONS AND GUIDE

Specifications

Model Name	HW-S60A / S61A
Weight	6.4 lbs (3.0 kg)
Dimensions (W x H x D)	30.1 x 2.7 x 4.9 inches (764.0 x 68.0 x 125.0 mm)
Operating Temperature Range	+41°F to +95°F (+5°C to +35°C)
Operating Humidity Range	10 % ~ 75 %
AMPLIFIER Rated Output power	(30W x 2) + (30W x 2) + (30W x 2) + 20W
Supported play formats	LPCM 2ch, Dolby Audio™ (supporting Dolby® Digital), DTS

NOTES

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

Precaution : The Soundbar will restart automatically if you turn on/turn off Wi-Fi.

Wi-Fi Port deactivation method	Press the ID SET button on the bottom panel of the Soundbar for 30 seconds to turn Wi-Fi On / Off.
Bluetooth Port deactivation method	Press the NETWORK button on the bottom panel of the Soundbar for 30 seconds to turn Bluetooth On / Off.

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

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This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser. SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. SAMSUNG's obligations with respect to software products distributed by SAMSUNG under the SAMSUNG brand name are set forth in the applicable end user license agreement. Non-SAMSUNG hardware and software products, if provided, are on an "AS IS" basis.

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Country	Samsung Service Center ☎	Web Site	Address
IN THE US	1-800-SAMSUNG (726-7864)	www.samsung.com/us/support	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660

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