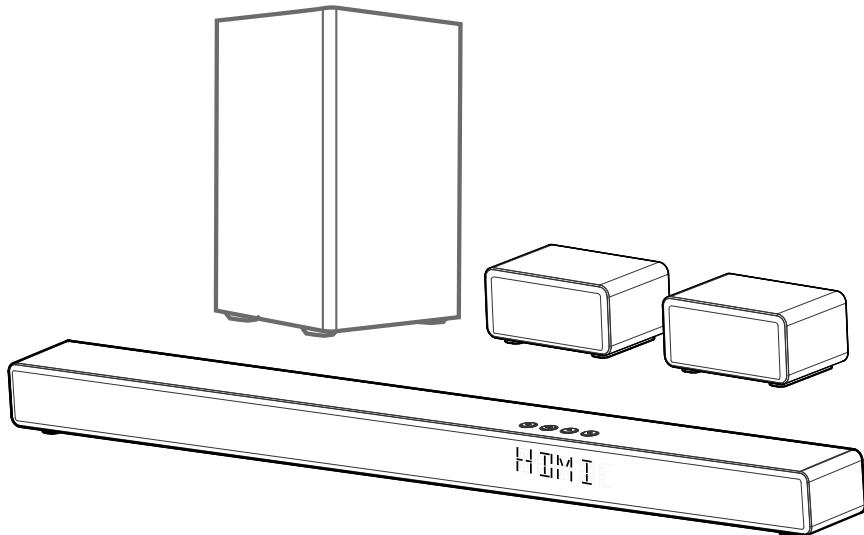


# 5.1.2 Channel Soundbar with Subwoofer & Satellite Speakers

**NS-SB512**



Before using your new product, please read these instructions to prevent any damage.

## Contents

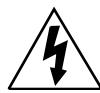
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## Introduction

Congratulations on your purchase of a high-quality Insignia product. Your NS-SB512 represents the state of the art in soundbar design and is designed for reliable and trouble-free performance.

## Important Safety Instructions

**Read all instructions before use.  
Keep these instructions.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude as to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### Safety 1.1

- **Read these instructions** – All the safety and operating instructions should be read before this product is operated.
- **Keep these instructions** – The safety and operating instructions should be retained for future reference.
- **Heed all warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
- **Follow all instructions** – All operating and usage instructions should be followed.
- **Do not use this apparatus near water** – The appliance should not be used near water or moisture – for example, in a wet basement or near a swimming pool and the like.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heaters, stoves, or other apparatus (including amplifiers) that produce heat. Do not place the product in direct sunlight.

- This product is not intended for use by persons (including young children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they are supervised or have been given instructions concerning the use of the product by a person who is responsible for their safety.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.

Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug the apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified 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 unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

**WARNING!** Connect to a suitable 100 - 240V~ 50/60Hz power supply only.

- The apparatus shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.
- Minimum distance around the apparatus for sufficient ventilation is 2 in. (5 cm).
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, and curtains.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Batteries should be recycled or disposed of as per state and local guidelines.
- Use this apparatus in moderate climates.

### **Caution:**

- Use of controls or adjustments or performance of procedures other than those described herein, may result in hazardous radiation exposure or other unsafe operation.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus must not be exposed to dripping or splashing and objects filled with liquids, such as vases, must not be placed on apparatus.
- The mains plug/appliance coupler is used as the disconnect device, the disconnect device must remain readily operable.

### **1.2 Warning**

- Caution: Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- The battery (batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire, or the like.
- Before operating this system, check the voltage of this system to see if it is identical to the voltage of your local power supply.
- Do not place this unit close to strong magnetic fields.
- Do not place this unit on the amplifier or receiver.
- If any solid object or liquid falls into the system, unplug the system and have it checked by qualified personnel before operating it any further.

- Do not attempt to clean the unit with chemical solvents as this may damage the finish. Use a clean, dry or slightly damp cloth.
- When removing the power plug from the wall outlet, always pull directly on the plug, never yank on the cord.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance will void the user's authority to operate the equipment.
- The rating label is pasted on the bottom or back of the equipment.

### Battery usage CAUTION

To prevent battery leakage which may result in bodily injury, property damage, or damage to the apparatus:

- Install all batteries correctly, + and - as marked on the apparatus.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Ni-Cd, Ni- MH, etc.) batteries.
- Remove batteries when the unit is not used for a long time.



Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



We hereby declare that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.



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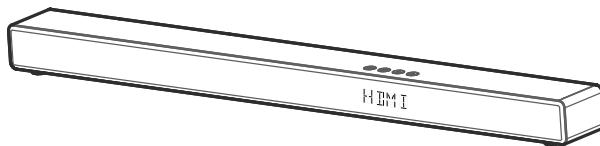


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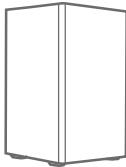
## Package contents



5.1.2 channel soundbar



Mounting template



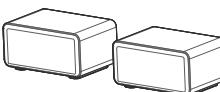
Subwoofer



Remote



AAA battery (2)



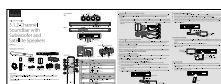
Satellite speaker (2)



Mounting hardware  
(for soundbar)



Satellite speaker  
mounting template



Quick Setup Guide



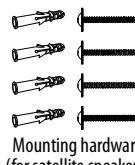
HDMI cable



AC power cord (for  
soundbar)



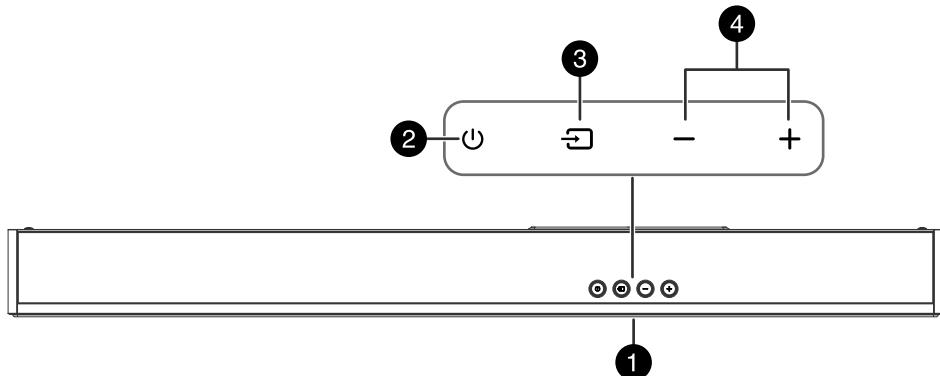
AC power cord (for  
subwoofer and satellite  
speakers) (3)



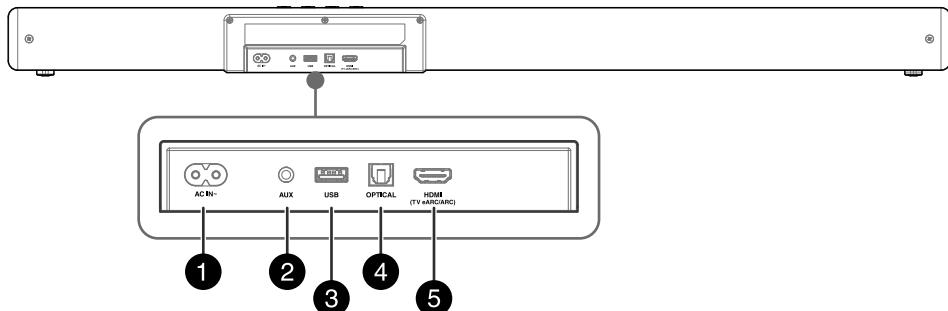
Mounting hardware  
(for satellite speakers)

## Features

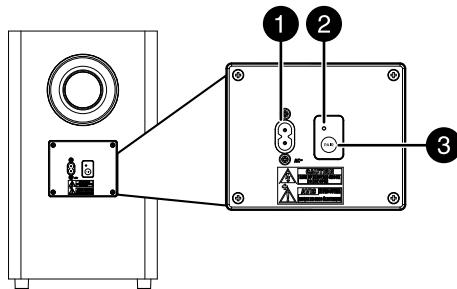
- 5.1.2-channel soundbar delivers a superior listening experience
- Subwoofer provides clearer low-frequency sounds
- Satellite speakers add an extra layer of incredible sound
- Four audio modes (MUSIC, MOVIE, NEWS, and NIGHT) provide a customized audio experience
- Versatile hook-up options include Bluetooth, HDMI eARC/ARC, 3.5 mm AUX, digital optical, and USB playback
- Wall-mountable for flexible placement
- Included remote with IR learning capability lets you maintain total control from a distance
- A simple solution to upgrade your home theater system

**Top view**

#	ITEM	DESCRIPTION
1	IR sensor and display	The IR sensor detects signals from the remote. Do not block. The soundbar display will show different text based on the selected mode: <ul style="list-style-type: none"> <li>• <i>HDMI</i> - HDMI</li> <li>• <i>OPT</i> - OPTICAL</li> <li>• <i>AUX</i> - AUX</li> <li>• <i>USB</i> - USB</li> <li>• <i>BT</i> - Bluetooth</li> </ul>
2	⊕ (power) button	Press to turn on your soundbar.
3	→ (sound source selector) button	Press to cycle through the available sound sources.
4	– (volume down) button + (volume up) button	Press – to decrease the volume of your soundbar. Press + to increase the volume of your soundbar.

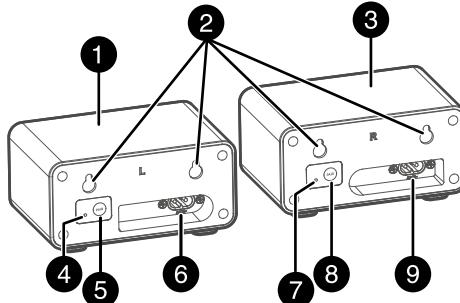
**Back view**

#	ITEM	DESCRIPTION
1	<b>AC IN</b> socket	Connect the AC power cord to this socket to power your soundbar.
2	<b>AUX</b> jack	Connect a 3.5 mm audio cable to this jack.
3	<b>USB</b> port	Connect a USB source device to play MP3/WAV files.
4	<b>OPTICAL</b> jack	Connect a digital optical cable to this jack and the OPTICAL OUT jack on a TV or audio source device. Set the sound output from the source to the PCM/DTS/Dolby format.
5	<b>HDMI (TV eARC/ARC)</b> jack	Connect an HDMI eARC/ARC cable to this jack and the HDMI ARC OUT jack on a TV or audio source device. Set the sound output from the source to the PCM/DTS/Dolby format.

**Subwoofer**

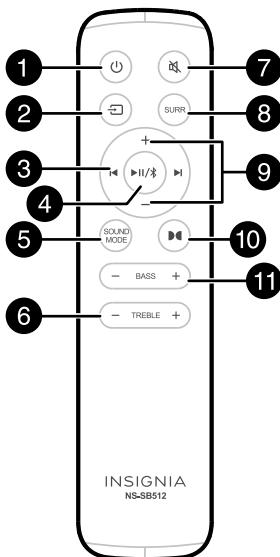
#	ITEM	DESCRIPTION
1	<b>AC</b> socket	Connect the AC power cord to this socket to power your subwoofer.
2	Pairing indicator	Light blinks when pairing with soundbar, stops when paired.
3	<b>PAIR</b> button	Press to pair subwoofer with soundbar.

## Satellite speakers



#	ITEM	DESCRIPTION
<b>1</b>	Left speaker	Speaker should be placed on the left side of the room, opposite to the TV. Your satellite speakers should be within 19.7 ft. (6 m) of your soundbar in an open area.
<b>2</b>	Wall bracket notches	Notches in the backs of both of your satellite speakers to accommodate screws to mount on the speakers on a wall.
<b>3</b>	Right speaker	Speaker should be placed on the right side of the room, opposite to the TV. Your satellite speakers should be within 19.7 ft. (6 m) of your soundbar in an open area.
<b>4</b>	Pairing indicator	Light blinks when pairing with soundbar, stops when paired.
<b>5</b>	<b>PAIR</b> button	Press to pair your satellite speaker with your soundbar.
<b>6</b>	<b>AC</b> socket	Connect the AC power cord to this socket to power your satellite speaker.
<b>7</b>	Pairing indicator	Light blinks when pairing with the soundbar, stops when paired.
<b>8</b>	<b>PAIR</b> button	Press to pair your satellite speaker with your soundbar.
<b>9</b>	<b>AC</b> socket	Connect the AC power cord to this socket to power your satellite speaker.

## Remote

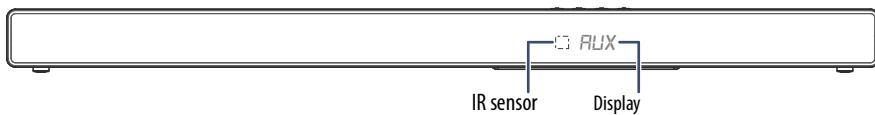


#	ITEM	DESCRIPTION
1	Power (power) button	Press to turn on your soundbar.
2	Sound source selector (sound source selector) button	Press repeatedly to cycle through the available sound sources.
3	◀ / ▶ (previous/next) buttons	In Bluetooth or USB mode, press to skip to the previous ▶ or next ▶ track.
4	▶/⏸ / ✘ (play/pause/Bluetooth) button	In Bluetooth or USB mode, press to play or pause playback. <ul style="list-style-type: none"> <li>• Short press to switch play/pause.</li> <li>• Press and hold three seconds to switch Bluetooth source.</li> <li>• Press and hold for six seconds to initiate Bluetooth pairing.</li> </ul>
5	<b>SOUND MODE</b> button	Press to select the sound mode. <b>MUSIC</b> - General music or TV shows listening. <b>MOVIE</b> - Optimize movie sound for a theater setting. <b>NEWS</b> - Optimize spoken voice or dialog for TV news and more. <b>NIGHT</b> - Reduces loud sounds and enhances quiet ones to avoid disturbing others, while maintaining clear dialogue at low volumes.
6	<b>TREBLE</b> -/+ button	Press to adjust the treble level of your soundbar.
7	🔇 (mute) button	Press to mute the sound from your soundbar. Press again to restore the sound.

#	ITEM	DESCRIPTION
8	<b>SURR</b> (surround sound) button	Short press to display the current surround level, then use the +/- (volume) buttons to adjust the level.
9	+- (volume) buttons	Press to increase or decrease your soundbar's volume.
10	 (Dolby Atmos) button	Short press to display the current Dolby effect level ( <b>LOW/MED/HIGH</b> ), then use the +/- (volume) buttons to adjust the level. Adjustment only works with Dolby format audio. Non-Dolby format audio displays <b>NA</b> when pressed. Press and hold for eight seconds to turn on/off the Auto Wake function. <ul style="list-style-type: none"> <li><b>ON:</b> The display shows <b>AUTOWAKE ON</b>.</li> <li><b>OFF:</b> The display shows <b>AUTOWAKE OFF</b>.</li> </ul>
11	<b>BASS</b> -/+ button	Press to adjust the bass volume level of your soundbar.

## Using the remote

Point your soundbar remote directly at the IR sensor on the front of your soundbar. You must be within approximately 19.7 ft. (6 m) of your soundbar.

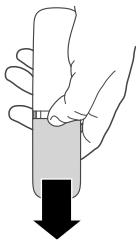


## Installing the remote batteries

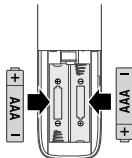
### CAUTION

- Be sure to insert the batteries with correct positive "+" and negative "-" polarities, as indicated in the battery compartment.
- Use batteries of the same type. Never use different types of batteries together, and do not mix new batteries with old ones, and do not use any batteries other than those specified.
- Either rechargeable or non-rechargeable batteries can be used. Refer to the precautions on their labels. Never recharge a battery unless it is confirmed to be a rechargeable type.
- Do not drop the remote.
- Do not allow anything to impact the remote.
- Do not spill water or any liquid on the remote.
- Do not place the remote on a wet object.
- Do not place the remote under direct sunlight or near sources of excessive heat.
- Remove the battery from the remote when not in use for a long period of time, as corrosion or battery leakage may occur and result in physical injury, and / or property damage, and/or fire.

- 1 Remove the battery compartment cover from the back of the remote.



- 2 Insert two AAA batteries into the battery compartment, making sure that the polarities on the batteries matches the + and - symbols inside the battery compartment.



- 3 Replace the battery compartment cover.



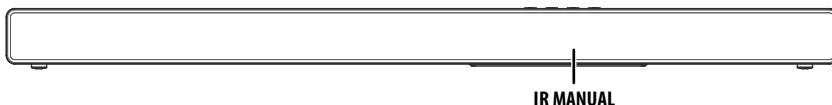
## Programming another remote

### IR remote learning function (optional)

Your soundbar can learn 15 button codes from most remotes, so you can easily control the sound with both your soundbar remote and the TV remote. You can also replace your soundbar remote with another remote.

### Programming using the Manual Sequence Learning mode:

- 1 With the power off, press and hold the  (power) button on the top of your soundbar for six seconds to enter the Manual Sequence learning mode.
- 2 Press the button on the soundbar remote that you want to learn. After selecting, the soundbar will enter the IR learning state for the current function. The display shows **IR MANUAL**.



- 3 Press and hold the remote button that needs to be learned until the displayed characters change from slow blinking to quick blinking.



Displays the current IR learning status

- 4 Press and hold the button that needs to be learned until the displayed characters change from flashing to steady. The display shows **IR MANUAL** (scrolling display).



**IR MANUAL** (scrolling display)

- 5 Repeat steps 2-4 to bind the other buttons in the preset learning mode to the remote one by one, or press the  (sound source selector) button on your soundbar to skip the current button function in the learning sequence.

**Note:** If the button is incorrectly pressed three times, the display shows **ERROR**.

- 6 If no operation is performed within 20 seconds, the soundbar automatically exits the IR learning mode.

**OR**

Press and hold the  (sound source selector) button on your soundbar for two seconds to exit learning mode. The display shows **IR COMPLETE**.

**OR**

After learning 15 buttons, IR learning will automatically stop and exit. The display shows **IR COMPLETE**.

### Programming using the Preset Sequence Learning mode:

- 1 Point your soundbar's remote and the remote you want to program within 4 in. (10 cm) of the IR sensor on your soundbar.
- 2 With the power turned off, press and hold the  (power) button on the top of your soundbar for three seconds to enter the Preset Sequence Learning mode. The display shows **IR PRESET**. Your soundbar starts to learn the buttons in the following sequence:  
 (power) >  (Mute) >  (sound source selector) > **SURR** (surround sound) > + (volume up) > - (volume down) >  (previous) >  (next) >  /  (play/pause/Bluetooth) > **SOUND MODE** >  (Dolby Atmos) > **BASS** > **BASS** > **TREBLE** > **TREBLE** -.



**IR PRESET**

- 3 Press the button on your soundbar remote that you want to learn. Your soundbar enters the IR learning state for the current function and the displayed characters change from steady to slow blinking.

- 4 Press and hold the remote button that needs to be relearned until the displayed characters change from slow blinking to quick blinking.
- 5 Press and hold the button that needs to be relearned until the displayed characters change from flashing to steady. After two seconds, the display automatically switches to the next function.



Automatically switches to display the next function

- 6 Repeat steps 3-5 to bind the other buttons in the preset learning mode to the remote one by one, or short press the  (sound source selector) button on your soundbar to skip the current button function in the learning sequence.

**Note:** If the button is incorrectly pressed three times, the display shows **ERROR**.

- 7 If no operation is performed for 20 seconds, your soundbar automatically exits the IR learning mode.

**OR**

Press and hold the  (sound source selector) button on your soundbar for two seconds to exit the learning mode.

**OR**

After learning 15 buttons, IR learning will automatically stop and exit. The display shows **IR COMPLETE**.

#### Deleting all learned remote codes:

With the power off, press and hold the  (power) button on your soundbar for ten seconds to clear all learned codes. When all learned remote codes are cleared, the display shows **IR RESET** and your soundbar turns off.

## Setting up your soundbar

### Positioning your soundbar

- Your soundbar is made out of plastic and is therefore sensitive to extreme temperatures and humidity. Do not put it in locations subject to direct sunlight or in humid places, such as near an air conditioner, humidifier, bathroom, or kitchen.
- Do not put water or other liquids close to your soundbar. If liquid is spilled on top of your soundbar, it may be damaged.
- Your soundbar should be placed on a sturdy, flat surface that is free from vibration, or mounted on a wall. Do not put your soundbar on an uneven or unstable surface, where it may fall and get damaged.

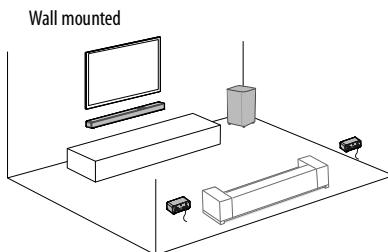
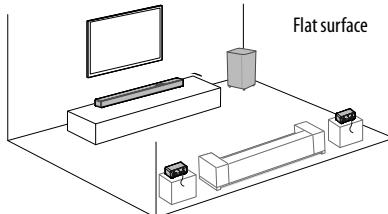


#### WARNING

Incorrect installation can result in serious injury or damage to your soundbar. If necessary, seek the assistance of a professional.

**Note:** If you are installing screws into drywall or concrete, use wall anchors (provided) designed for that type of surface.

- If your TV is placed on a table, you can place your soundbar on the table directly in front of the TV stand, centered with the TV screen.
- If your TV is attached to a wall, you can mount your soundbar on the wall directly below the TV screen.



## Positioning your subwoofer

For the best sound results from your subwoofer, it should be placed against a wall or in a corner of the room. The location within the room is less important, because bass tones are omni directional.

## Positioning your satellite speakers

Place your satellite speakers behind your seating to the left and right. For best results, see the example above.

## Configuring Dolby Atmos®

You can choose between:

- **LOW:** Best for smaller rooms with low ceilings.
- **MED:** (default) Best for medium-sized rooms.
- **HIGH:** Best for larger rooms with taller ceilings.

**Note:** Short press the  (Dolby Atmos) button to display the current Dolby effect level (**LOW/MED/HIGH**), then use the +/- (volume) buttons to adjust the level. Adjustment only works with Dolby format audio. Non-Dolby format audio displays **NA** when pressed.

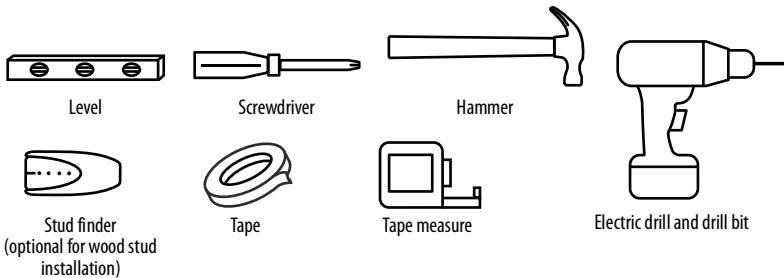
## Mounting your soundbar on a wall (optional)

### **WARNING**

- Improper wall mounting may result in accident, injury, or damage. If you have any questions, contact Consumer Care in your country.
- Before wall mounting, make sure the wall can support the weight of your soundbar.
- Depending on the type of wall mounting your soundbar, make sure that you use screws of a suitable length and diameter.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
- Before attempting to mount the soundbar to a wall, if you are in any way unsure about how or where to mount the soundbar, you should employ a qualified person to install it.

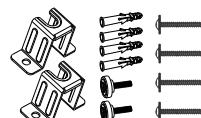
**Important:**

- Make all connections to your soundbar before mounting your soundbar on a wall.
- The hardware supplied with your soundbar may not be suitable for all types of walls. Please consult a professional for advice before drilling any holes, if you are in any doubt.
- Mark the position on the wall that you want the soundbar to be mounted and check that they align with the holes in the brackets before drilling any holes.
- Suggested wall mounting height: 4.9 ft. (1.5 m).
- Before wall mounting, you don't need remove the rubber feet on the bottom of the soundbar. If you do remove them, they cannot be replaced.
- Please check whether the **USB** port on the back of your soundbar is connected to a USB device. If you find that the connected USB device affects the wall mount, you need to use another USB device of the appropriate size.

**You will need (not provided):**

**You will need (provided):**

Mounting template

Mounting hardware  
(for soundbar)

- 1 Select a location close to your TV and directly in front of the viewing/listening position. For best sound quality, choose a location where sound waves are not blocked by furniture or other obstacles.
- 2 If you are mounting your soundbar to drywall, use the stud finder to find the studs and mark the locations.

**Note:** Since normal stud spacing is 16 in. or 24 in. on center, only one of the mounting screws can be in a stud. Use a wall anchor for the other screw.

- 3 Place the template at least 2 in. (5 cm) under the center of your TV. Use a level to determine that the mounting template is level, then tape the mounting template to the wall.
- 4 Using an electric drill, drill four parallel 7/32 in. (5.5 - 6 mm) holes through the markings in the template on the wall. The horizontal distance between the two mounting points on the brackets from your mounting hardware are 37.2 in. (94.6 cm), and the hole distances are 11/3 in. (3.32 cm) apart.
- 5 If you are mounting on drywall without studs or on concrete, install wall anchors (included) into the four holes you drilled.
- 6 Secure the mounting brackets to the wall with two screws each (included). Tighten the screws, but do not over tighten.
- 7 Remove the two existing screws from the back of your soundbar and replace with the two wide-head screws from the mounting hardware.
- 8 Align the screws on your soundbar with the mounting brackets on the wall, then hang your soundbar on the brackets.

**WARNING**

Incorrect installation can result in serious injury or damage to your soundbar. If necessary, seek the assistance of a professional.

**Mounting your satellite speakers to a wall (optional)****You will need (not provided):**

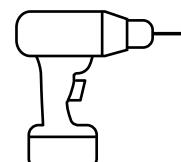
Level



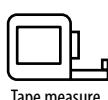
Screwdriver



Hammer



Electric drill and drill bit

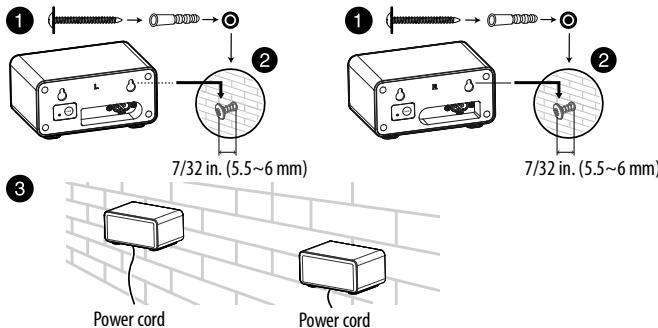


Tape measure

**You will need (provided):**Satellite speaker  
mounting templateMounting hardware  
(for satellite speakers)

**Note:** Before installing the wall bracket, you need to connect the power cables of your (R/L) satellite speakers.

Your satellite speakers (R/L) can be mounted to a wall using the included wall mount package.



- 1 Tape the template at your mounting location, making sure that it is level.
- 2 Mark the two mounting holes with a pencil, then remove the template.
- 3 Drill 7/32 in. (5.5–6 mm) holes at the marked locations, then twist the wall anchors into the pre-drilled holes.
- 4 Screw the anchor bolts into the wall anchors, but do not tighten them all the way—leave about 7/32 in. (5.5–6 mm) of space (the screw heads should sit about 7/32 in. (5.5–6 mm) away from the wall).
- 5 Hang the satellite speakers onto the screws.

**Choosing your connection**

Look at your sound source device, such as a TV, DVD/Blu-ray player, or cable box, to identify your audio OUT ports. Choose one connection option that fits your sound source. You can connect several devices and switch the sound source as required.

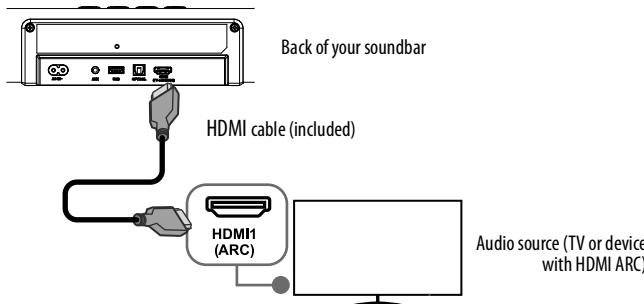
AUDIO QUALITY	JACK TYPE	CABLE	
<b>BEST</b>			HDMI cable (included). See <a href="#">Connecting to HDMI eARC/ARC (Best)</a> on page 19.
<b>BETTER</b>			Digital Optical cable (not included). See <a href="#">Connecting to digital optical (Better)</a> on page 20.
<b>GOOD</b>			3.5 mm audio cable (not included). See <a href="#">Connecting to AUX (Good)</a> on page 20.

You can also choose a USB flash drive or Bluetooth device as your sound source. See [Connecting to USB](#) on page 21, or [Connecting to Bluetooth](#) on page 22.

### Connecting to HDMI eARC/ARC (Best)

HDMI eARC/ARC allows high definition TV to directly transmit audio to the AV amplifier/receiver through an HDMI cable, without the need for an additional audio cable.

- 1 Remove the caps off both ends of the HDMI cable (included).
- 2 Connect one end of the HDMI cable (included) to the **HDMI (TV eARC/ARC)** jack on your soundbar.
- 3 Connect the other end into the HDMI eARC/ARC Output jack on your source device and turn on the CEC on your source device.
- 4 Change the source device's audio output to the PCM/DTS/Dolby format (typically found in audio settings).
- 5 Press the  (sound source selector) button on your soundbar or your soundbar remote repeatedly until the display on the front of your soundbar shows **HDMI**.



**Important:** You can use HDMI to connect to other HDMI devices. To use HDMI eARC/ARC functionality, the connected device must also have HDMI ARC functionality.

### Using Dolby Atmos®

Dolby Atmos gives you Immersive listening experience by delivering sound in three dimensional space, and all the richness, clarity, and power of Dolby sound.

For more information, please visit [Dolby Atmos - Official Site - Dolby](#).

Dolby Atmos® is available only in HDMI mode.

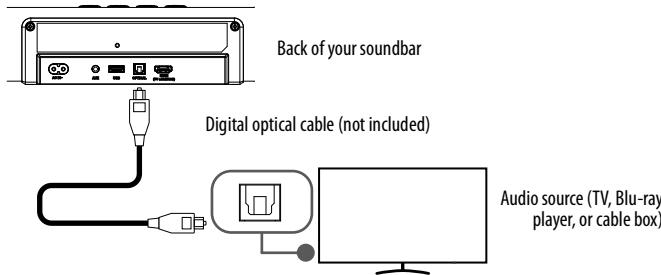
- 1 To use Dolby Atmos® in HDMI mode, your TV has to support Dolby Atmos®.
- 2 Make sure that “No Encoding” is selected for bitstream in the audio output of the connected external device (e.g. Blu-ray DVD player, TV etc.).
- 3 While entering Dolby Atmos / Dolby Digital / PCM format, your soundbar will show **DOLBY ATMOS / DOLBY AUDIO / PCM AUDIO**.

**Tips:**

- The full Dolby Atmos experience is only available when your soundbar is connected to the source via a HDMI 2.0 cable.
- Your soundbar will still function when connected via other methods (such as a Digital Optical cable), but these will not support all of the Dolby features. We recommend that you connect via HDMI, in order to ensure full Dolby support.

## Connecting to digital optical (Better)

- 1 Remove the caps off both ends of the digital optical cable (not included).
- 2 Connect one end of the digital optical cable (not included) to the **OPTICAL** jack on your soundbar.
- 3 Connect the other end into the Digital Optical Output jack on your source device.
- 4 Change the source device’s audio output to the PCM/DTS/Dolby format (typically found in audio settings). See the documentation that came with your audio source device for more information.
- 5 Press the  (sound source selector) button on your soundbar or soundbar remote repeatedly to select OPTICAL mode.



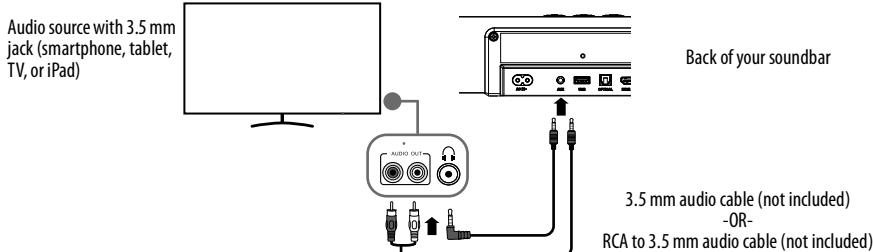
**Important:** Make sure that the device you connect and select as your sound source is outputting sound to your soundbar. See your device's user manual for more information.

## Connecting to AUX (Good)

- 1 Connect one end of the 3.5 mm audio cable (not included) into the **AUX** jack on your soundbar, then connect the other end of the AUX cable to the headphone or AUX Output jack on your audio source device.

**Note:** You can also use an RCA to 3.5 mm audio cable (also shown).

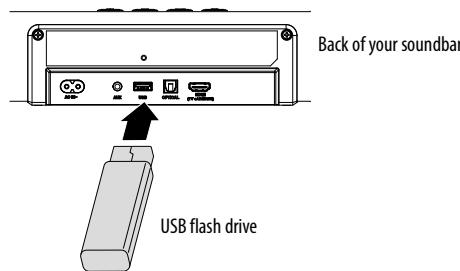
- 2 Press the  (sound source selector) button on your soundbar or soundbar remote repeatedly to select AUX mode.



**Important:** Make sure that the device you connect and select as your sound source is outputting sound to your soundbar. See your device's user manual for more information.

## Connecting to USB

- 1 Plug a USB flash drive (with MP3/WAV/FLAC) into the **USB** port on the back of your soundbar.



- 2 Press the  (sound source selector) button on your soundbar or soundbar remote repeatedly to select USB mode.
- 3 Control USB playback by pressing the  (play/pause) button or the  /  (previous/next) buttons on your soundbar remote.

**Note:**

- Your soundbar supports the USB music MP3/WAV/FLAC file formats only.
- Your soundbar can support USB devices with up to 32 GB of memory.
- Your soundbar may not be compatible with all USB devices. This is not an indication of a problem with your soundbar.

## Connecting to Bluetooth

Before you can use your soundbar with a Bluetooth device, you need to pair your device to your soundbar.

**Note:**

- Your soundbar must be on to make a Bluetooth connection.
- Place the Bluetooth device within 26.25 ft. (8 m) of your soundbar.

### Pairing your devices

- 1 Turn on your soundbar.
- 2 Place your Bluetooth device within 26.25 ft. (8 m) of your soundbar.
- 3 Press the  (sound source selector) button on your soundbar repeatedly until the display on the front of your soundbar flashes **BT** or press the  (play/pause/Bluetooth) button for three seconds on your soundbar remote.
- 4 Navigate to your device's Bluetooth settings, turn on Bluetooth, then search for available devices. See the documentation that came with your audio source device for more information on pairing.
- 5 On your Bluetooth device, select **Insignia NS-SB512** from the device list.
- 6 Repeat steps 1-4 if **Insignia NS-SB512** is not displayed.
- 7 When pairing is completed the display on the front of your soundbar shows **BT**.

**Tips:**

- The operational range between your soundbar and the device is approximately 26.25 ft. (8m).
- Before connecting a Bluetooth device to your soundbar, ensure you know the device's capabilities.
- Compatibility with all Bluetooth devices is not guaranteed.
- Any obstacle between the device and your soundbar can reduce operational range.
- Keep your soundbar away from other electronic devices that may cause interference.
- Your soundbar will also be disconnected when your device is moved beyond the operational range.

**Important:** Make sure that the device you connect and select as your sound source is outputting sound to your soundbar. See your device's user manual for more information.

### Disconnecting your devices

- Turn off the Bluetooth function on your device.
- Press and hold the  (Bluetooth) button on your soundbar remote for three seconds.
- Switch to another function on your soundbar.
- Disable the function from your Bluetooth device.

### Reconnecting to a paired device

When your soundbar is not paired to a device, the display will flash **BT**.

Your soundbar loses the Bluetooth connection if you...	To reconnect...
Turn off your soundbar.	Turn on your soundbar. Your soundbar searches for the last connected Bluetooth device and reconnects.
Move the Bluetooth device out of range.	Move your Bluetooth device within 26.25 ft. (8 m) of your soundbar.
Turn off your Bluetooth device.	Turn on your Bluetooth device, then make sure that Bluetooth is on.
Turn off Bluetooth on your Bluetooth device.	Turn on Bluetooth on your Bluetooth device.
Connect your Bluetooth device to another Bluetooth device.	Disconnect your Bluetooth device from the other Bluetooth device, then set your device to pairing mode. Select <b>Insignia NS-SB512</b> on your Bluetooth device.

**Note:** If a device does not automatically reconnect, you may need to reselect **Insignia NS-SB512** on your Bluetooth device.

### Connecting to a different device

- 1 On the Bluetooth device you are currently connected to, turn off the Bluetooth function or unpair your soundbar from your Bluetooth device list. Your soundbar can now be connected to another Bluetooth device.
- 2 Follow the section [Connecting to Bluetooth](#) on page 22 to connect a new device.

### Connecting the AC power cord

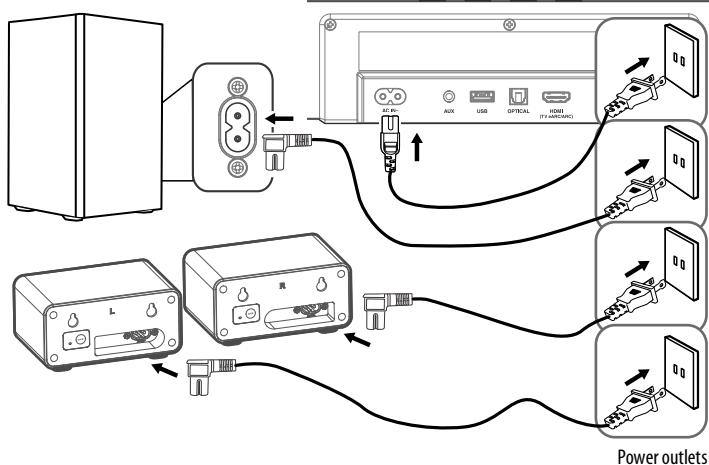
After you have connected your soundbar to an audio source, you need to connect the AC power cord and plug it in.

 **CAUTION**

Make sure that the electrical outlet matches the input requirements of 100-240V AC at 50/60Hz before connecting.

- Connect one end of the AC power cord (included) into the **AC IN** socket on your soundbar, then plug the AC power cord into a power outlet or surge protector.
- Connect one end of the AC power cord (included) into the **AC** socket on your subwoofer, then plug the AC power cord into a power outlet or surge protector.

- Connect one end of the AC power cords (included) into the **AC** sockets on both of your satellite speakers, then plug the AC power cords into power outlets or a surge protector.



## Connecting your subwoofer and satellite speakers

### Automatic pairing

Your subwoofer, satellite speakers, and soundbar will automatically pair when they are plugged in and turned on. No cables are needed to connect them.

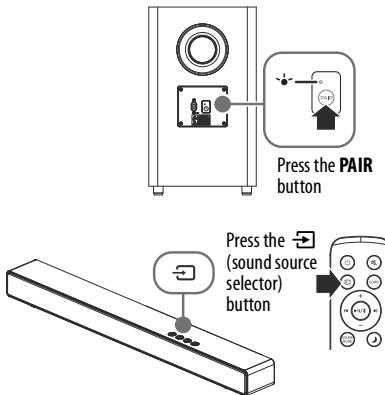
- When your subwoofer and satellite speakers are pairing with your soundbar, the pairing indicator blinks quickly.
- When your subwoofer and satellite speakers are paired with your soundbar, the pairing indicator stays on.

**Note:**

- Do not press the **PAIR** button on your subwoofer or satellite speakers, except for manual pairing.
- If the automatic pairing fails, pair your subwoofer and satellite speakers with your soundbar manually.

## Manual pairing

- 1 Make sure that all the cables are well connected and switch your soundbar on.
- 2 Press and hold the **PAIR** button on the back of your subwoofer or satellite speakers for a few seconds. Your subwoofer or satellite speakers will enter pairing mode and the pairing indicator on your subwoofer or satellite speakers blink quickly.



- 3 Press and hold the **□** (sound source selector) button on your soundbar for 15 seconds. The display shows **RESET** after 10 seconds, then shows **PAIRING** after 15 seconds. If your subwoofer and satellite speakers are not connected, the display shows **SUB SURL SURR**. If your subwoofer and satellite speakers are connected, the display shows **CONNECTED** and your soundbar plays a sound.
- 4 After the wireless connection succeeds, the pairing indicator turns on.
- 5 If the pairing indicator blinks, the wireless connection has failed. Unplug the power cord of your subwoofer or satellite speakers and then reconnect the power cord. Repeat steps 1-3.

### Note:

- If the wireless connection fails again, check to determine if there is conflict or strong interference (for example, interference from an electronic device) around your location. Remove these conflicts or strong interferences and repeat the above procedures.
- Your subwoofer and satellite speakers should be within 19.7 ft. (6 m) of your soundbar, in an open area.
- For pairing to succeed, both your subwoofer and satellite speakers must be in pairing mode.
- If your soundbar is not connected with your subwoofer and satellite speakers and it is turned on, the display on your soundbar will show **SUB SURL SURR**. Follow steps 1-3 above to pair your subwoofer and satellite speakers to your soundbar.

## Using your soundbar

This system lets you access five different sound sources, including OPTICAL, AUX, Bluetooth, USB, and HDMI eARC/ARC.

## Listening to your soundbar

- 1 Press the  (power) button to turn on your soundbar. The soundbar display will show different text based on the selected mode (HDMI = HDMI, OPT = OPTICAL, AUX = AUX, USB = USB, BT = Bluetooth).
- 2 Turn on the audio source device connected to your soundbar and begin playback.
- 3 Press the  (sound source selector) button on your soundbar or your soundbar remote repeatedly until you hear sound from your soundbar.

### Note:

- If you use the **OPTICAL** jack, you must change your device's audio output setting to the PCM/DTS/Dolby format. See the documentation that came with the output device for additional information.
- Make sure that your sound source is set to output sound to your soundbar (whichever connection method you choose). See the documentation that came with the device for additional information.
- To turn your soundbar off completely, you must unplug the AC power cord.

- 4 Adjust the volume on your soundbar or the source audio device to a comfortable level.

### WARNING

Continuous use of high volume sound may permanently damage your hearing.

- 5 Press the  (power) button again to turn off your soundbar. When the audio system is in "Auto Wake on" mode, the display shows **SLEEP** and lights up with the white standby LED. When the audio system is in "Auto Wake off" mode, the display shows **OFF** and lights up with the white standby LED.

## Selecting the sound source

Press the  (sound source selector) button repeatedly on your soundbar or the  (sound source selector) button on your soundbar remote to select the desired sound source.

- The soundbar display will show different text indicating which sound source is selected.

## Changing the volume

Press the + or - (volume) buttons on your soundbar or on your soundbar remote to adjust the volume.

- If you wish to turn the sound off, press the  (mute) button on the remote.
- Press the  (mute) button again or press the + (volume up) button on your soundbar or on your soundbar remote to resume normal listening.

## Selecting a sound mode

- While audio is playing, press the **SOUND MODE** button on the remote to select the desired preset sound modes, either **MUSIC**, **MOVIE**, **NEWS**, or **NIGHT**.

## Using the AUX, OPTICAL, or HDMI eARC/ARC sound sources

- 1 Make sure that your soundbar is connected to a TV or audio device.

- 2 While your soundbar is on, press the  (sound source selector) button repeatedly on your soundbar or on your soundbar remote to select the HDMI eARC/ARC, OPTICAL, or AUX sound sources.
- 3 Operate your audio device directly for playback features.
- 4 Press the + or - (volume) buttons to adjust the volume to your desired level.

**Tip:** The volume ranges from 1-99 and displays on the front of your soundbar as **MUTE**, **V1** to **V99**, or **V MAX**. While in HDMI eARC/ARC or OPTICAL mode, if there's no sound output from your soundbar, you may need to activate PCM/DTS/Dolby signal output on your source device (for example, TV, or DVD player).

## Listening to music from a Bluetooth device

If the connected Bluetooth device supports Advanced Audio Distribution Profile (A2DP), you can listen to the music stored on the device through your soundbar. In addition, if the device also supports Audio Video Remote Control Profile (AVRCP), you can use your soundbar's remote to play music stored on the device.

- 1 Pair your device with your soundbar.
- 2 Play music via your device (if it supports A2DP).
- 3 Use your soundbar remote to control play (if it supports AVRCP).
  - To pause/resume play, press the  (play/pause) button.
  - To skip to a track, press the  /  (previous/next) buttons.

**Note:**

- The operational range between your soundbar and the device is approximately 26.25 ft. (8 m).
- Before connecting a Bluetooth device to your soundbar, make sure that you know the device's capabilities.
- Compatibility with all Bluetooth devices is not guaranteed.
- Any obstacle between the device and your soundbar can reduce operational range.
- Keep this soundbar away from other electronic devices that may cause interference.
- Your soundbar will also be disconnected when your Bluetooth device is moved beyond the operational range.

## Changing the Auto Wake feature

Auto Wake is enabled by default. With Auto Wake on, if a TV or an external audio device is connected (AUX / OPTICAL / HDMI eARC/ARC mode), your soundbar will switch on automatically when the device is switched on. To change the Auto Wake feature:

Press and hold the  (Dolby Atmos) button for eight seconds to turn on/off the Auto Wake function.

- **On:** The display shows **AUTOWAKE ON**.
- **Off:** The display shows **AUTOWAKE OFF**.
  - The Auto Wake function for OPT/AUX modes will be temporarily disabled if your soundbar is manually put into standby mode.
  - With Auto Wake off, external signals will not switch HDMI eARC/ARC /OPT/AUX on automatically.

## Receiving a phone call while playing music

- When you receive a call while playing music through your phone, the music stops automatically.
- When you hang up, depending on the setting of your phone, the current track may resume playback.

## Cleaning your soundbar

### CAUTION

Only use a dry, soft, clean rag to clean the outside of your soundbar. Never clean it with chemicals, detergents, or abrasives.

## Troubleshooting

Check this list for a possible troubleshooting solution before calling for service.

PROBLEM	POSSIBLE SOLUTION
The power doesn't come on.	<p>Make sure that the AC power cord is securely plugged into the power outlet and your soundbar.</p> <p>Make sure that your soundbar is turned on. It doesn't turn on automatically when you turn on your TV or other sound source.</p>
The remote doesn't work.	<p>Remove any obstacles between the remote and the IR sensor on your soundbar.</p> <p>The remote batteries may be exhausted. Replace them.</p> <p>Move closer to your soundbar. The remote is only effective to approximately 19.7 ft. (6 m) from your soundbar.</p>

PROBLEM	POSSIBLE SOLUTION
My TV remote doesn't control my soundbar.	Make sure that your soundbar has learned your TV remote's button codes. See <a href="#">Programming another remote</a> on page 12 for instructions for setup.
The sound is breaking up or buzzing.	Make sure that you are connected to an audio out jack on your sound source. The jack doesn't send audio out if it is an input jack.
	Make sure that all connections are secure and cables are not broken or damaged.
	If you're using the <b>HDMI (TV eARC/ARC)/OPTICAL</b> jack, make sure that the source device's audio source is set to the PCM/DTS/Dolby format. See the documentation that came with the audio source device (such as a TV or DVD/Blu-ray player) for additional information.
	Connect to a different source device (such as a TV or DVD/Blu-ray player) to see if the buzzing still occurs. If it doesn't, this may indicate an issue with the original source device.
	Use a different connection method (for example, try the <b>HDMI (TV eARC/ARC)/OPTICAL</b> jack instead of the <b>AUX</b> jack) between your soundbar and the source device to make sure that the jacks on both devices are still working.
	Make sure that the audio cable you're using is not damaged or broken. Try using another one.

PROBLEM	POSSIBLE SOLUTION
There is no sound or very low sound.	Make sure that you're connected to an audio out jack on your sound source. The jack doesn't send audio out if it is an input jack.
	Make sure that the volume level of your soundbar is set to an adequate level.
	If you're using Bluetooth, turn up the volume on your Bluetooth device.
	If you're using Bluetooth, make sure that your Bluetooth device isn't paired with another device.
	Make sure that the volume level isn't muted. Press the  (mute) button on the remote to restore the sound output.
	Make sure that the correct audio source is selected. Press the  (sound source selector) button on your soundbar or your remote repeatedly to switch to the correct audio source.
	Make sure that the power is on and all connections are secure.
	Make sure that the volume is turned up on your sound source.
	If you are using the <b>HDMI (TV eARC/ARC)/OPTICAL</b> jack, make sure that the source device's audio source is set to the PCM/DTS/Dolby format. See the documentation that came with the audio source device (such as a TV or DVD/Blu-ray player) for additional information.
	Make sure that the audio cable you're using isn't damaged or broken. Try using another one.
	Make sure that the sound source device is outputting sound to your soundbar.
There is no sound or low volume in Bluetooth mode.	Make sure that your Bluetooth device is turned on, Bluetooth is turned on, and <b>Insignia NS-SB512</b> is selected.
	Turn up the volume on your soundbar.
	Turn up the volume on your Bluetooth device.
	Make sure that your Bluetooth device is not muted.
	Make sure that you're playing music from your Bluetooth device.
	Make sure that you have selected the Bluetooth source on your soundbar.
	Make sure that your Bluetooth device is not paired to a different Bluetooth speaker or other device.

PROBLEM	POSSIBLE SOLUTION
My soundbar won't connect to my Bluetooth device.	Shorten the distance between your soundbar and your Bluetooth device.
	Turn your devices off, then on. Re-pair your soundbar and your Bluetooth device.
	Make sure that your soundbar isn't paired to another Bluetooth device.
	Make sure that your soundbar and Bluetooth device are both in pairing mode.
	Make sure that you have selected <b>Insignia NS-SB512</b> on your Bluetooth device.
My Bluetooth device keeps unpairing.	Shorten the distance between your soundbar and your Bluetooth device.
	If the battery on your Bluetooth device is low, recharge the battery.
<b>Insignia NS-SB512</b> doesn't appear on my Bluetooth device.	Shorten the distance between your soundbar and your Bluetooth device.
	Put your soundbar into pairing mode, then refresh your list of Bluetooth devices. For more information, see the documentation that came with your Bluetooth device.
	Make sure that your Bluetooth device is visible to other devices. For more information, see the documentation that came with your Bluetooth device.
The sound is lagging or I hear an echo.	Turn off or mute the internal speakers of your TV. See your TV's User Guide for instructions.
My soundbar turns off automatically after 15 minutes.	When there is no signal input for 15 minutes, your soundbar automatically enters standby mode.
My subwoofer/satellite speakers won't connect.	Your wireless subwoofer/satellite speakers are default paired at the factory so that your soundbar and subwoofer/satellite speakers should link automatically when your soundbar is turned on. However, if the pairing indicator does not light when your soundbar and subwoofer/satellite speakers are both powered on, or if your soundbar has been serviced recently, you need to re-pair the devices.
	Make sure that your subwoofer/satellite speakers are next to your soundbar.

## Specifications

Designs and specifications are subject to change without notice.

<b>Soundbar</b>	
Power requirement	100/240V~50/60Hz
Audio input sensitivity	450mV
Frequency response	150Hz-18KHz
Speaker impedance	8 ohms.
Dimensions (approx.) (H x W x D)	2 3/4 x 31 1/2 x 3 2/3 in. (6.5 x 80 x 9.3 cm)
Weight	6.59 lbs. (2.99 kg)
Working environment	Temperature - 32 ~ 104° F (0 ~ 40° C) Humidity - 5% ~ 90%
Inputs	HDMI eARC/ARC USB port AUX IN audio jack Digital optical audio jack Bluetooth
<b>Subwoofer</b>	
Power requirement	100/240V~50/60Hz
Dimensions (approx.) (H x W x D)	12 1/2 x 7 3/4 x 7 3/4 in. (32 x 19.5 x 19.5 cm)
Weight	11.18 lbs. (5.07 kg)
Frequency response	40Hz-150Hz
<b>Satellite speakers</b>	
Adapter mode	100-240V~ 50/60Hz
Dimension (HxWxD)	2 9/16 x 5 1/2 x 3 2/3 in. (14 x 6.5 x 9.3 cm)
Net Weight	2.2 lbs. (1.0 kg)
Frequency response	150Hz - 18KHz
Impedance	8 ohms. x 2
<b>Remote</b>	
Distance/angle	19 3/4 ft. (6 m) / 30°
Batteries	AAA (2)

## Legal notices

### 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.

Note: 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 or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- It is recommended that a dealer or an experienced radio/TV technician be contacted for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment

This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## ONE-YEAR LIMITED WARRANTY

Best Buy, or its Authorized Partner of Insignia branded products, warrants to you, the original purchaser of this new Insignia branded product ("Product"), that the Product shall be free of defects in the original manufacture of the material or workmanship for a period of one (1) year from the date of your purchase of the Product or the date of delivery (if later than the date of purchase) ("Warranty Period").

For this warranty to apply, your Product must be (i) purchased in the United States or Canada from a Best Buy branded retail store, online at [www.bestbuy.com](http://www.bestbuy.com) or [www.bestbuy.ca](http://www.bestbuy.ca), or from Best Buy's Authorized Partner, and (ii) packaged or sold with this warranty statement.

The term "Best Buy", as used in this warranty, refers to Best Buy branded retail stores, [www.bestbuy.com](http://www.bestbuy.com), [www.bestbuy.ca](http://www.bestbuy.ca), and Best Buy's Authorized Partner.

Because Insignia cannot control the quality of products sold by unauthorized sellers, this warranty applies only to Products that were purchased from Best Buy or an Insignia Authorized Partner, unless otherwise prohibited by law. Insignia reserves the right to reject warranty claims for Products purchased from unauthorized sellers, including unauthorized websites.

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### How long does the coverage last?

The Warranty Period lasts for 1 year (365 days) from the date you purchased the Product or the date of delivery (if later than the date of purchase). Your purchase date is printed on the receipt you received with the Product. In the event that Authorized Partner ceases to sell the covered Insignia branded product, this warranty shall terminate for that product and there shall be no repair or replacement of the Product.

### What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Insignia repair center or store personnel, Insignia will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Insignia and are not returned to you. If service of Products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Insignia Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

### How to obtain warranty service?

If you purchased the Product at a Best Buy retail store location or from a Best Buy online website ([www.bestbuy.com](http://www.bestbuy.com) or [www.bestbuy.ca](http://www.bestbuy.ca)), please take your original receipt and the Product to any Best Buy store. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased your Product from an Authorized Partner, call Insignia at 1-877-467-4289.

To obtain warranty service, in the United States and Canada call 1-877-467-4289. Call agents may diagnose and correct the issue over the phone.

If you purchased the Product from an Authorized Partner other than Best Buy, please call 1-888-BESTBUY in the United States or 1-866-BESTBUY in Canada. You will be asked to provide proof of purchase and to return your Product to Best Buy. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

### Where is the warranty valid?

This warranty is valid only in the United States and Canada to the original purchaser of the product from an Authorized Partner, in the country where the original purchase was made.

### What does the warranty not cover?

This warranty does not cover:

- Food, beverage, and or medicine loss/spoilage.
- Damage to other products caused by a power surge or other similar issue while connected to the Product.
- Customer instruction/education.
- Installation.
- Set up adjustments.
- Cosmetic damage.
- Damage due to weather, lightning, and other acts of God, such as power surges.
- Accidental damage.
- Misuse.
- Abuse.
- Negligence.
- Commercial purposes/use, including but not limited to use in a place of business or in communal areas of a multiple dwelling condominium or apartment complex, or otherwise used in a place of other than a private home.
- Modification of any part of the Product, including the antenna.
- Display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).
- Damage due to incorrect operation or maintenance.
- Connection to an incorrect voltage or power supply.
- Damage due to attempted repair by any person not authorized by Insignia to service the Product.
- Products sold "as is" or "with all faults".
- Consumables, including but not limited to batteries (i.e. AA, AAA, C etc.).
- Products where the factory applied serial number has been altered or removed.
- Loss or Theft of this product or any part of the product.
- Display panels containing up to three (3) pixel failures (dots that are dark or incorrectly illuminated) grouped in an area smaller than one tenth (1/10) of the display size or up to five (5) pixel failures throughout the display. (Pixel based displays may contain a limited number of pixels that may not function normally).
- Failures or Damage caused by any contact including but not limited to liquids, gels or pastes.

Contact Insignia:

1-877-467-4289

[www.insigniaproducts.com](http://www.insigniaproducts.com)

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