



User Manual

HiPulse N512

Model Number: N512

Product Name: H-N512

Brand: Hiwill-Audio

support@hiwillaudio.com

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5.1.2-Channel Surround Sound System

- * 1 Center Speaker: Equipped with two full-range drivers designed to enhance dialogue clarity and audio positioning. Even at low volumes or in quiet environments, dialogue remains perfectly clear.
- * 2 Wired Rear Surround Speakers: No cable needed between the rear speakers and the soundbar. Place them anywhere—even in a different room—for a flexible, immersive experience.
- * 2 Wired Front Surround Speakers: Precisely positioned sound sources enhance front soundstage layering.
- * 1×5.25" Wired Subwoofer: Deep, powerful bass down to 45Hz—room-shaking yet distortion-free.

Five Smart Audio Modes for Instant Adaptation

- * Movie Mode: Dynamically enhances bass and surround effects for an exceptional viewing experience.
- * Music Mode: Optimizes mid-high frequencies, clearly reproducing vocals and instruments.
- * News Mode: Intelligently emphasizes vocal range for crystal-clear dialogue, ideal for podcasts, news and audiobooks.
- * Game Mode: 3D audio & enhanced bass for precise gameplay. (For best performance, keep soundbar 2m+ from WiFi router.)
- * Night Mode: Balances audio levels by reducing loud bass and sharp highs, ensuring clear sound at low volumes—perfect for late-night viewing without disturbing others.

Three Professional-Grade Sound Adjustments

- * Bass Adjustment (-6dB to +6dB): Prevents muddiness while maintaining punchy, controlled low-end impact.
- * Treble Adjustment(-6dB to +6dB): Eliminates harshness for smooth, natural high frequencies.
- * Surround Level Adjustment (0–32): Adjusts rear speaker volume only. Helps fine-tune surround effects based on room size. (Front speaker levels are not adjustable.)

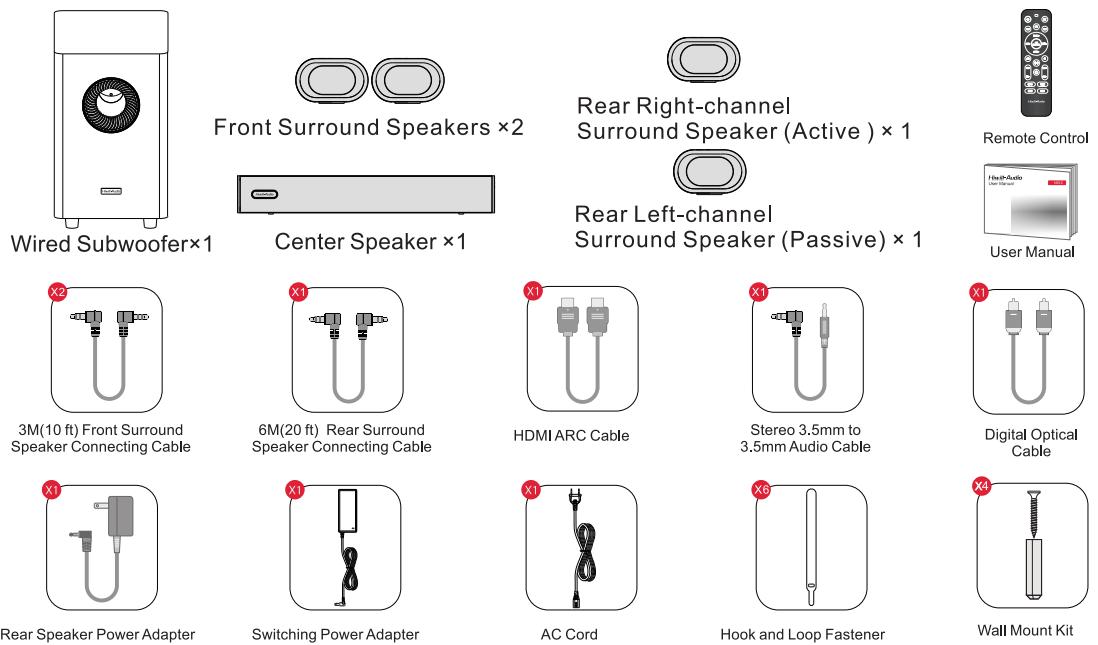
Universal Connectivity Options

- * HDMI ARC: Direct TV connection with CEC function for one-touch volume control.
- * Optical Input: Delivers uncompressed high-fidelity digital audio with minimal interference.
- * 3.5mm AUX: Convenient connection for smartphones, tablets and computers.
- * Bluetooth 5.3: Stable wireless streaming with low latency and high bitrate.
- * Subwoofer Output: Connect to the independent 5.25" subwoofer to enhance low-frequency performance (subwoofer included).
- * Surround Speaker Outputs: Connect included front and rear surround speakers to create a complete surround sound experience.

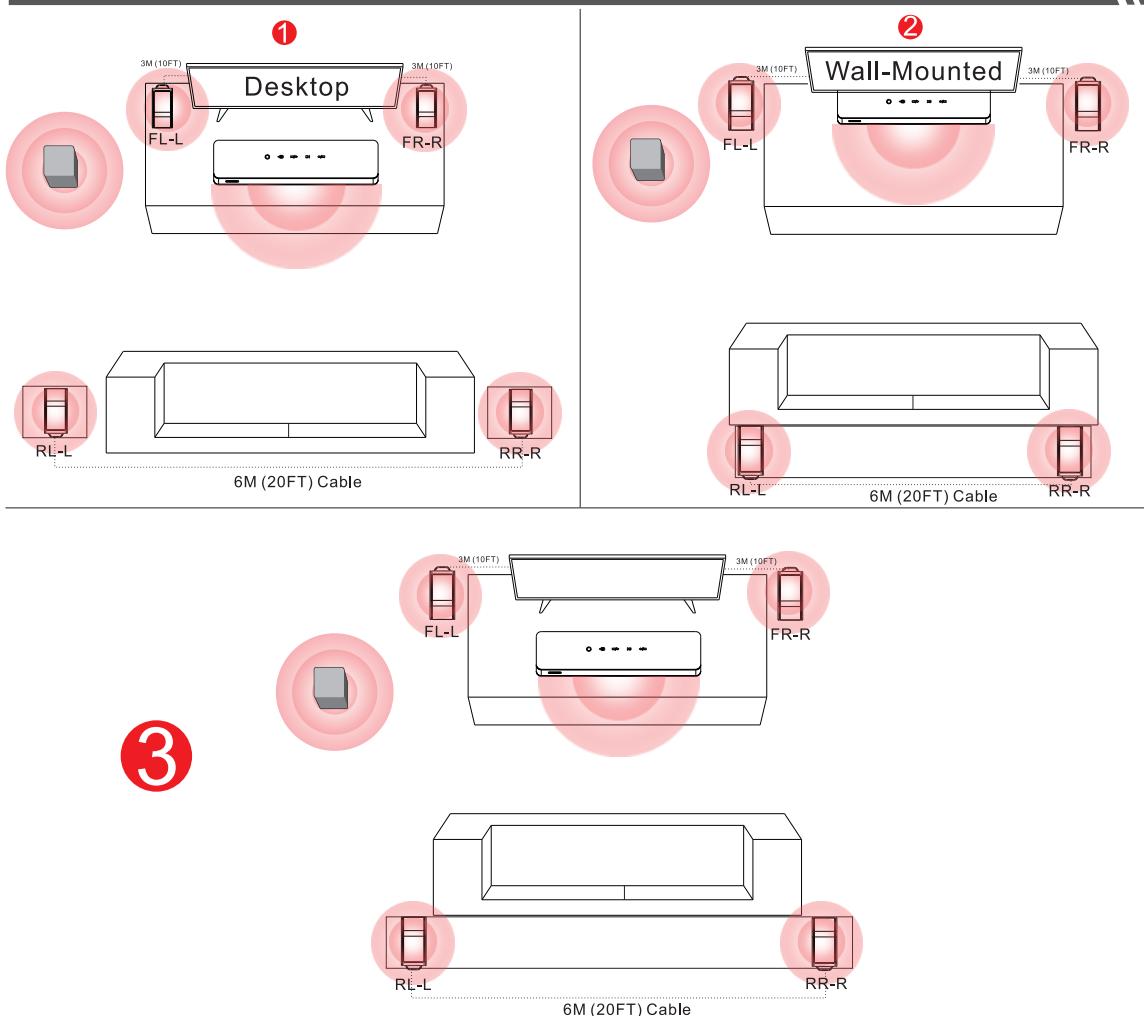
LED Display + Smart Remote+ Cable Management

- * LED Display: Clearly shows real-time volume, mode and input source status.
- * Remote Control: Effortlessly switch modes and adjust settings without leaving your seat.
- * Neat Cable Management: Use included hook and loop fasteners to organize excess cables.

2. UNBOXING & INCLUDED ITEMS



3. RECOMMENDED PLACEMENT METHOD



4. SURROUND SPEAKERS PLACEMENT GUIDE(BY ROOM SIZE)

EN

ROOM TYPE	SPACE REFERENCE	RECOMMENDED PLACEMENT DISTANCE (L/R CHANNELS)	RECOMMENDED LISTENING DISTANCE	SETUP TIPS & NOTES
Small Space	< 108 ft ² (< 10 m ²)	2-2.6 ft (60-80 cm)	5-6.5 ft (1.5-2.0 m)	<ul style="list-style-type: none"> • Reduce bass slightly to prevent booming. • Slight outward tilt of the soundbar can widen the soundstage.
Medium Space	108-215 ft ² (10-20 m ²)	4-5 ft (1.2-1.5 m)	6.5-8 ft (2-2.5 m)	<ul style="list-style-type: none"> • Maintain an equilateral triangle layout with slight inward tilt. • Moderately increase bass.
Large Space	> 215 ft ² (> 20 m ²)	6.5-10 ft (2-3 m)	< 108 ft ² (2.5-3.5 m)	<ul style="list-style-type: none"> • Increase bass appropriately for fuller sound.

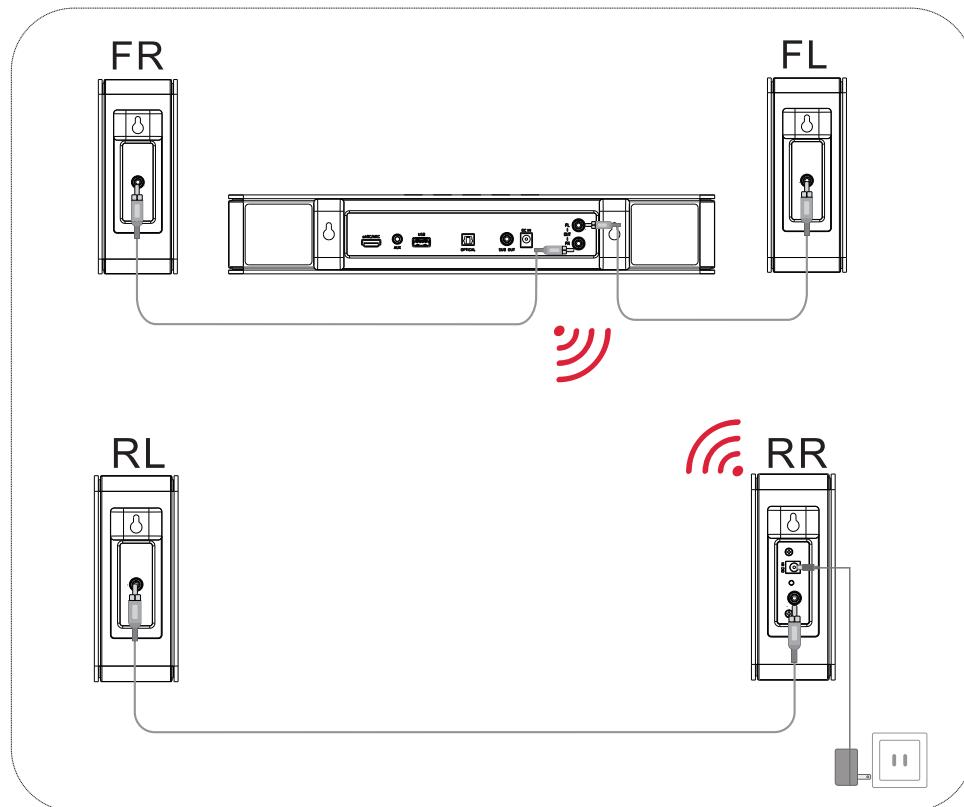
Warm Tips:

- * **Do not place speakers near walls or corners:** This can enhance bass resonance, causing muddiness, especially noticeable in small rooms.
- * **Always use a subwoofer for deep lows**
- * **Avoid obstructing the front sound output area of the speakers:** Objects like curtains, sofa backs, or cabinets may affect high-frequency dispersion and clarity.
- * **Adjust the height and angle to align with ear level.**
- * Set your source device (TV/player) volume to 80%~100% first for full dynamic range, then adjust the soundbar volume for optimal clarity and depth.
- * **Fine-tune EQ settings after testing:** Each room has different acoustic characteristics, please adjust bass/treble balance and surround sound levels based on actual listening experience, or use default movie/music modes.

Important Notes:

- * Regardless of room size, it's recommended to separate the left/right surround speakers and the center speaker to expand the overall surround soundstage.
- * Avoid obstructing the front sound output area of the speakers.

Rear View





Step 1: Choose Placement Locations

- * Place the center speaker on a tabletop or wall-mount.
- * Wall-mount or position the front wired surround speakers on each side of the TV to expand the front soundstage.
- * Place the rear surround speaker pair (connected by wire) behind or beside the sofa for a wider surround experience. No cable needed to the soundbar.
- * Position the wired subwoofer near the center speaker or near the TV.
- * Tip: For optimal sound quality, position all speakers at or near ear level when seated.

Step 2: Connect Front Wired Surround Speakers

- * Connect each front speaker to the center speaker's left/right output ports using 3m(10 ft) cables.
- * connect the other end of each cable to the respective front speakers, positioning them according to the output port labels (FL↔Left, FR↔Right) to ensure the correct channel orientation.

Step 3: Set Up Rear Surround Speakers (Wireless to Soundbar)

- * Cable Connection: Use the included 6m(20 ft) cable to link the two rear speakers.
- * Channel Assignment: Active Rear Speaker (Powered): Right Channel (RR)
Passive Rear Speaker: Left Channel (RL)
Ensure correct placement (RL↔Left, RR↔Right) to maintain proper surround imaging.
- * Power Setup: Connect the 2m power adapter to the active right speaker (RR).
Plug the adapter into a power outlet.
- * Confirmation & Note: Successful pairing is indicated by the blue light on the active speaker remaining steadily on. (Pairing is already completed before leaving the factory, so no manual pairing is necessary.)
- * Important: Incorrect positioning (swapped L/R) will disrupt surround sound accuracy.

Step 4: Connect the Wired Subwoofer

- * Use the subwoofer's cable to connect the "SUB OUT" port on the center speaker.
- * Place the subwoofer in front of the TV cabinet or on either side, ensuring it's at least 10cm away from the wall for optimal sound quality.

Step 5: Select Input Source

- * Use HDMI ARC, optical, AUX, USB or Bluetooth to connect your audio source. (See page 7 for detailed connection instructions.)

Step 6: Connect Power

- * Connect one end of the switching power adapter to the center speaker DC IN connector and the other end to the AC cord and plug the AC cord into an outlet.

Step 7: Power On and Setting

- * Press the power button to turn on the center speaker, and the soundbar system will automatically enter the default mode.
- * Use the remote control to select the audio mode you want (Movie, Music, News, Game). Enjoy a tailored audio experience!

Note: To prevent issues related to cable clutter, secure the excess length using the hook and loop fasteners supplied by Hiwill-Audio.

6. IMPORTANT TIPS:

△ Key Reminders:

- * Complete all wired connections before performing wireless pairing.
- * Make sure cables are plugged in securely.
- * Secure the cables between the rear surround speakers to prevent tripping hazards.
- * All speakers should be placed away from heat sources and ensure good ventilation.

Troubleshooting

✗ Rear Surround Speakers Not Working / Connection Failed

- * Check the pairing indicator (should show a solid blue light). Verify all cable connections are secure.
- * Press the “((•))” button on the remote to confirm 5.1 channel mode is selected (LED should display "5.1").
- * Adjust surround volume to 32 (LED should display "SR: 32").
- * Check for wireless interference (e.g., microwaves, Wi-Fi routers).

If the issue persists, try resetting the system:

- * First, press and hold the Mute button on the remote control for 3 seconds to reset. If pairing still fails, unplug all speakers, move the surround speakers within 3 meters of the center speaker, reconnect the power, and reset again.

✗ No Sound from the Subwoofer

- * Ensure both ends of the cable are properly connected.
- * Adjust up the subwoofer volume (may be set to zero).
- * Avoid placing near Wi-Fi routers, microwaves, or power strips.
- * Restart all devices.

If the issue still exists, please contact us directly or at support@hiwillaudio.com for assistance.

7. RECOMMENDED CONNECTION METHODS

CONNECTION METHOD	RECOMMENDATION	PROS	CONS	BEST USE CASE
HDMI ARC	★★★★★	Single-cable CEC remote control	Requires TV with ARC support	Movies/gaming (balanced quality & convenience)
Optical (Toslink)	★★★★★	No interference long-distance	Manual volume adjustment needed	TVs without ARC or long-distance setups
Bluetooth	★★	Wireless, no cables	High latency compressed audio	Casual music playback
AUX (3.5mm)	★	Works with legacy devices	Poor quality, 2.0 only	Last-resort option

8. IMPORTANT TIPS:

Connection Priority

HDMI ARC → Optical → Bluetooth → AUX

Always use HDMI ARC when available for best performance

Compatibility Note:

The Hiwill-Audio N512 does not support Dolby Atmos or DTS format decoding.

Required Audio Setup:

To ensure proper playback, you must set your TV's audio output to PCM:

Navigate to:

TV Settings > Sound > Audio Processing → Select "Off"
→Digital Audio Output → Select "PCM"

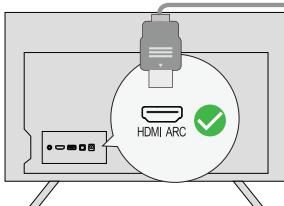
For External Devices (Blu-ray players, game consoles, etc.):

Manually set audio output to PCM in each device's settings. This ensures optimal compatibility and prevents audio playback issues.

Note:

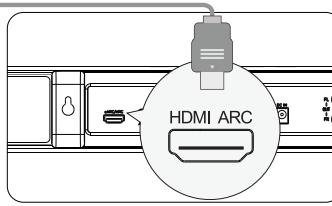
Menu options may vary by TV brand. For brand-specific setup assistance, please provide your TV model number.

9. CONNECT TO TV VIA ARC



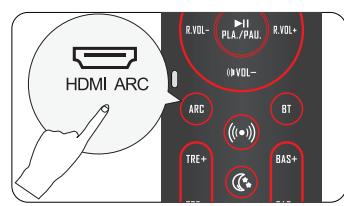
1. Check Device Compatibility

① Ensure that your TV supports HDMI ARC functionality.



2. Connect the Soundbar and TV

① Insert one end of the HDMI cable into the HDMI ARC output port on the Center Speaker.
 ② Insert the other end of the HDMI cable into the HDMI ARC input port on the TV.
 ③ Ensure the connection is secure to prevent any loose connections.



3. Enable ARC Functionality

① Power on the TV and Soundbar.
 ② Press the input icon "HDMI" on the soundbar or the ARC button on the remote to select ARC.
 ③ Go to TV Settings > Sound > Digital Audio Output > Select "PCM"

Note: If the sound from the soundbar is intermittent please check whether the ARC port is loose.

CEC Functionality

When HDMI is connected, your TV remote control can control the soundbar and TV simultaneously:

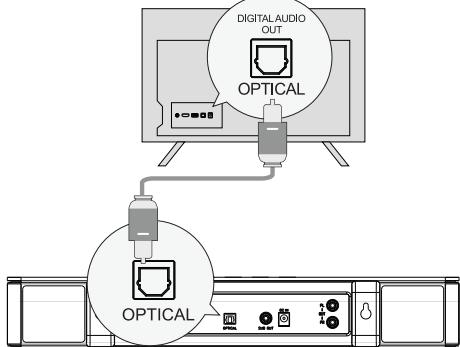
① Turn on/off
 ② Adjust the volume

Note:

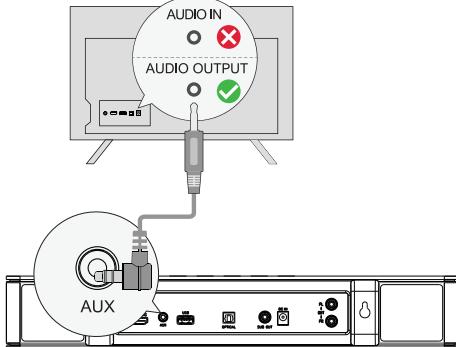
① Look for CEC control options in your TV's "Settings" and make sure the CEC feature is turned on on your TV.
 ② Attention: There are slight differences between different types of TV.

10. CONNECT TO THE TV VIA OPTICAL / AUX

OPTICAL



AUX



① Make sure the TV's port is OPTICAL OUT and connect both ends of the cable to the OPTICAL ports on both the TV and the Center Speaker.
 ② Ensure the optical plug is inserted correctly, as shown in the picture.
 Do not insert the plug upside down, as it may damage the optical connection.

① Connect the 3.5mm to 3.5mm Audio Cable to your TV's AUDIO OUT port.
 ② Not support AUDIO IN port on TV.

Note:

1. When connecting via Optical, please disable the TV speaker first: Audio Settings → TV Speaker → OFF.
 2. Please remember to unplug the AUX cable from TV and Center Speaker when you want to other mode.
 3. If there is no sound, try setting the TV audio output to PCM: TV Settings>Home>Settings>Sound>Digital Audio Output>PCM

Activate the Soundbar's Bluetooth Mode

Press the "BT" button on your soundbar to cycle through input sources until the LED displays "BT". Or press the "BT" button on the remote control directly.

Phone Setup

Open your phone's Settings → Bluetooth and ensure Bluetooth is enabled. Select "Hiwill-Audio-N512" from the list of available devices (if it's the first time pairing, manually confirm the connection).

Complete the Connection

- * Connected: Voice prompt + solid LED + phone shows "Paired"
- * Disconnected: Voice prompt "Disconnected"

Troubleshooting Common Issues:

Can't Find the Device?

- * Ensure the soundbar is in pairing mode, not standby.
- * If your phone cannot detect the soundbar via Bluetooth, please check whether another device is already connected to it. Disconnect that device first, then try pairing again with your new device.
- * Reduce the distance between the phone and soundbar to under 1 meter to avoid interference.

Connection Fails?

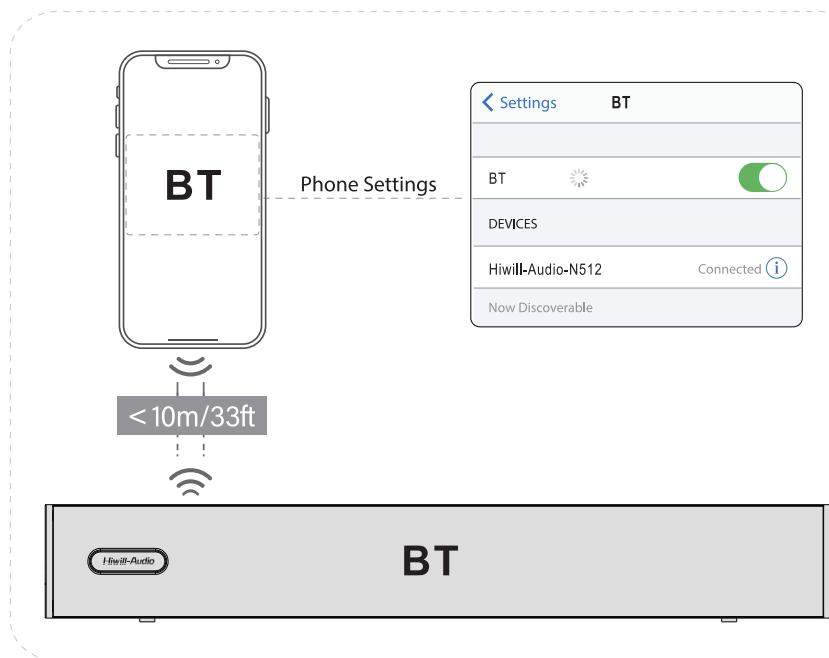
- * Restart the soundbar and your phone's Bluetooth function.
- * Delete old pairing records from your phone's Bluetooth list and try again.

No Sound or Intermittent Audio?

- * Check if both the phone volume and soundbar volume are turned up.
- * Move away from potential signal interference sources (e.g., Wi-Fi routers, microwaves).

Important Notes:

- * After successful pairing, the soundbar will usually reconnect automatically upon next startup (if your phone's Bluetooth is on).
- * If the connection still fails after following these steps, please prioritize contacting our customer support email at support@hiwillaudio.com, and we will provide you with a satisfactory solution.

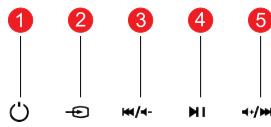


12. CONTROL PANEL

1 “”: Power On/ Power Off

2 “”: Input

Press to switch channels: ARC - OPT (OPTICAL) - BT - AUX - USB.
Hold for 3 seconds to disconnect the current device and manually connect to a new device on your mobile, PC, or TV.



3 “”: Previous / Volume Down
for BT/USB Mode:

* Short press: Skip to the previous track. Long press: Decrease volume
for ARC / OPT / AUX Mode:

* Short or long press: Decrease volume (No track control)

4 “”: Play/Pause

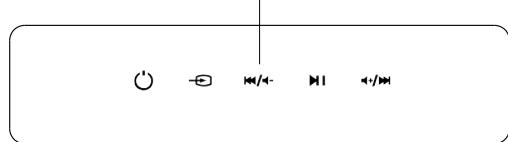
5 “”: Next / Volume Up

for BT/USB Mode:

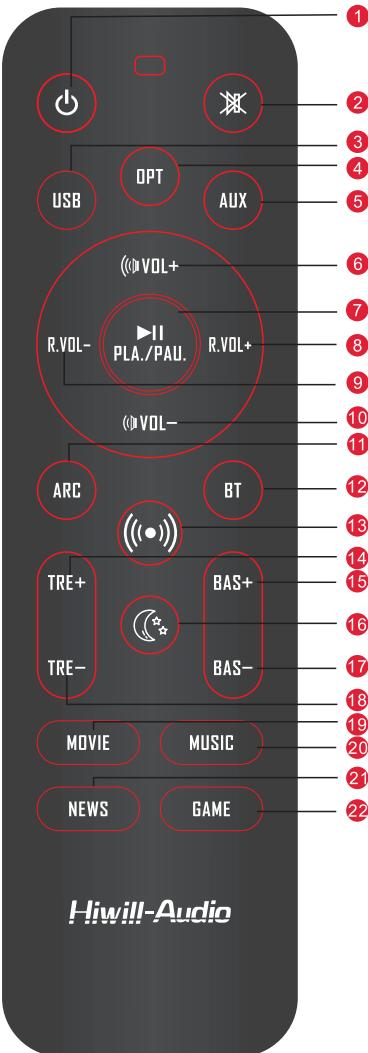
* Short press: Skip to the next track. Long press: Increase volume.

for ARC / OPT / AUX Mode: Short or long press: Increase volume (No track control).

* In working state, if no operation is performed, the device will automatically turn off the display and enter standby mode after 30 seconds.



13. REMOTE CONTROLS



1 “”: Power Button
Press to power on / Hold for 3 seconds to power off.

2 “”: Mute/Unmute/Reset to Factory Settings
Short press to “Mute” or “Restore Volume”.
Long press for 3 seconds to reset to factory settings.

3 “”: USB Input

4 “”: Optical Input
Switch to optical input source.

5 “”: AUX Input
Switch to AUX input source.

6 “”: Volume Up
Increase volume level.

7 “”: Play/Pause

8 “”: Rear Surround Volume Up
Short or long press to increase rear surround speaker volume (0-32).

9 “”: Rear Surround Volume Down
Short or long press to decrease rear surround speaker volume (32-0).

10 “”: Volume Down
Decrease volume level.

11 “”: HDMI ARC Input
Switch to HDMI ARC input source.

12 “”: Bluetooth Input
* Press to switch to Bluetooth mode. * Hold for 5+ seconds to clear paired devices.

13 “”: 3.1 / 5.1 Channel Toggle
Use 5.1ch when rear speakers are connected.

14 “”: Treble Enhancement
Short or long press to increase treble (0 to 6).

15 “”: Bass Enhancement
Press to increase bass (0 to 6).

16 “”: Night Mode
* Short press: Activates night mode.
* Long press (3 seconds): Turns off LED lighting.

17 “”: Bass Reduction
Press to decrease bass (-6 to 0).

18 “”: Treble Reduction
Short or long press to decrease treble (-6 to 0).

19 “”: Movie Mode
Press to switch to movie mode.

20 “”: Music Mode
Press to switch to music mode.

21 “”: News Mode
Press to switch to news mode.

22 “”: Game Mode
Press to switch to game mode.