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JOYROOM SHLS-CB2S-US

JOYROOM Bluetooth 5.4 Transmitter Receiver SHLS-CB2S-US Instruction Manual

Model: SHLS-CB2S-US

1. Introduction

The JOYROOM SHLS-CB2S-US is a versatile Bluetooth 5.4 Transmitter and Receiver designed to enhance your audio experience. It allows you to wirelessly transmit audio from non-Bluetooth devices to Bluetooth headphones or speakers (Transmitter Mode) or receive audio from Bluetooth-enabled devices to non-Bluetooth speakers or car stereos (Receiver Mode). Featuring an intuitive OLED display and long battery life, this device offers seamless audio connectivity.



Image: Overview of the JOYROOM Bluetooth 5.4 Transmitter Receiver highlighting its key features.

2. Package Contents

Please verify that all items are present in your package:

- Bluetooth Transmitter Receiver x 1
- 3.5mm AUX Cable x 1
- USB-C Charging Cable x 1
- RCA Cable x 1
- User Manual x 1



Image: All items included in the product package.

3. Product Overview

3.1 Device Layout and Controls



Image: Detailed view of the device's buttons and ports.

- **Confirm Button:** For selection and pairing confirmation.
- **Sound Increase Button:** To increase volume.
- **Sound Reduction Button:** To decrease volume.
- **LED Lamp:** Indicates device status.
- **Display Screen:** OLED display for status information.
- **Mode Switching (TX/RX) Switch:** To toggle between Transmitter and Receiver modes.
- **Power On/Off Button:** To turn the device on or off.

- **3.5mm Audio Interface:** For audio input/output.
- **Type-C Charging Port:** For charging the device.

3.2 OLED Display

The integrated 1-inch OLED screen provides real-time information about the device's status, including:

- Battery Level (0-100%)
- Active Mode (TX/RX)
- Connected Devices
- Audio Codec



Image: The OLED display showing current operational status.

4. Setup

4.1 Charging the Device

Before first use, fully charge the device using the provided USB-C charging cable. Connect the USB-C end to the device's charging port and the USB-A end to a standard USB power adapter (not included).

4.2 Power On/Off

- **To Power On:** Press and hold the Power On/Off button until the OLED display illuminates.
- **To Power Off:** Press and hold the Power On/Off button until the OLED display turns off.

4.3 Selecting Operating Mode (TX/RX)

Use the TX/RX switch located on the side of the device to select the desired operating mode:

- **TX (Transmitter) Mode:** For sending audio from a non-Bluetooth source to Bluetooth headphones/speakers.
- **RX (Receiver) Mode:** For receiving audio from a Bluetooth source to non-Bluetooth speakers/car stereos.



Image: Sliding the switch to select TX mode.



Image: Sliding the switch to select RX mode.

5. Operating Modes

5.1 Transmitter (TX) Mode

Use TX mode to transmit audio from devices without Bluetooth (e.g., TV, airplane entertainment system, computer) to your Bluetooth headphones or speakers.

1. Ensure the device is switched to **TX Mode**.
2. Connect the 3.5mm AUX cable or RCA cable (if applicable) from the audio source's output jack to the 3.5mm audio interface on the JOYROOM device.
3. The device will automatically enter pairing mode. The OLED display will show "Connecting...".
4. Put your Bluetooth headphones or speaker into pairing mode.
5. The JOYROOM device will search for and connect to nearby Bluetooth audio devices. Once connected, the device name will appear on the OLED display.



Image: Connecting the 3.5mm AUX cable to the device.



Image: Connecting the device to an audio source.



Image: Pairing with Bluetooth headphones.

TX Mode Usage Examples:

- **Airplane Entertainment:** Connect to an airplane's 3.5mm audio jack to use your wireless headphones.



Image: Using the device in TX mode on an airplane.

- **TV Audio:** Connect to your TV's audio output to listen with Bluetooth headphones.



Image: Using the device in TX mode with a TV.

5.2 Receiver (RX) Mode

Use RX mode to receive audio from Bluetooth-enabled devices (e.g., smartphone, tablet, laptop) and play it through non-Bluetooth speakers or car stereos.

1. Ensure the device is switched to **RX Mode**.
2. Connect the 3.5mm AUX cable or RCA cable (if applicable) from the JOYROOM device's 3.5mm audio interface to the audio input jack of your non-Bluetooth speaker or car stereo.

3. The device will automatically enter pairing mode. The OLED display will show "Connecting...".
4. On your Bluetooth-enabled device (e.g., smartphone), enable Bluetooth and search for "JR-CB2S". Select it to connect.
5. Once connected, the device name will appear on the OLED display, and audio will stream to your connected speaker/stereo.



Image: Connecting the 3.5mm AUX cable to the device for RX mode.

Image: Connecting the device to a speaker.



Image: Pairing with a smartphone in RX mode.

RX Mode Usage Examples:

- **Home Stereo:** Connect your phone to an old stereo system to stream music wirelessly.

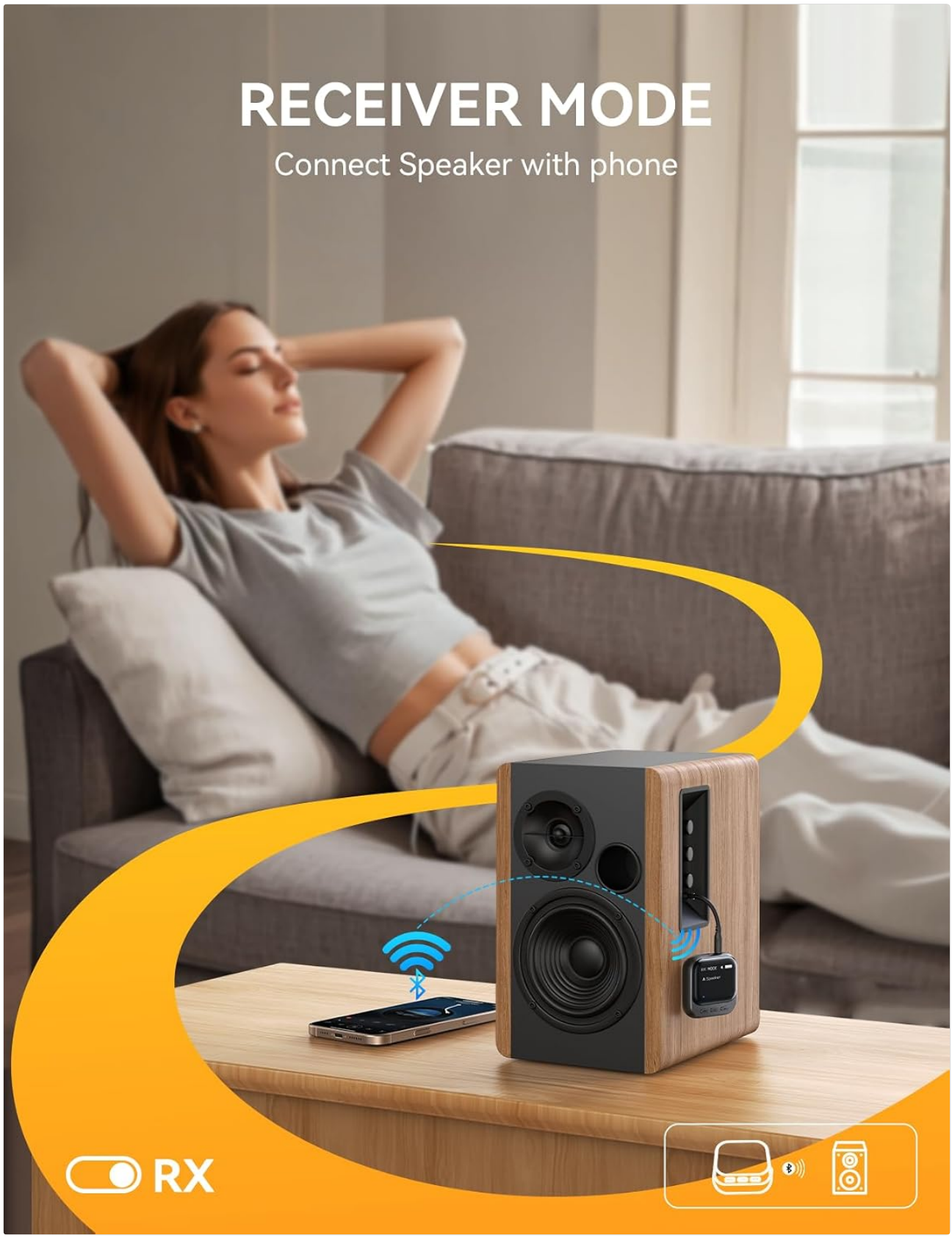


Image: Using the device in RX mode with a home speaker.

- **Car Stereo:** Upgrade your car's audio system to receive Bluetooth audio from your phone.

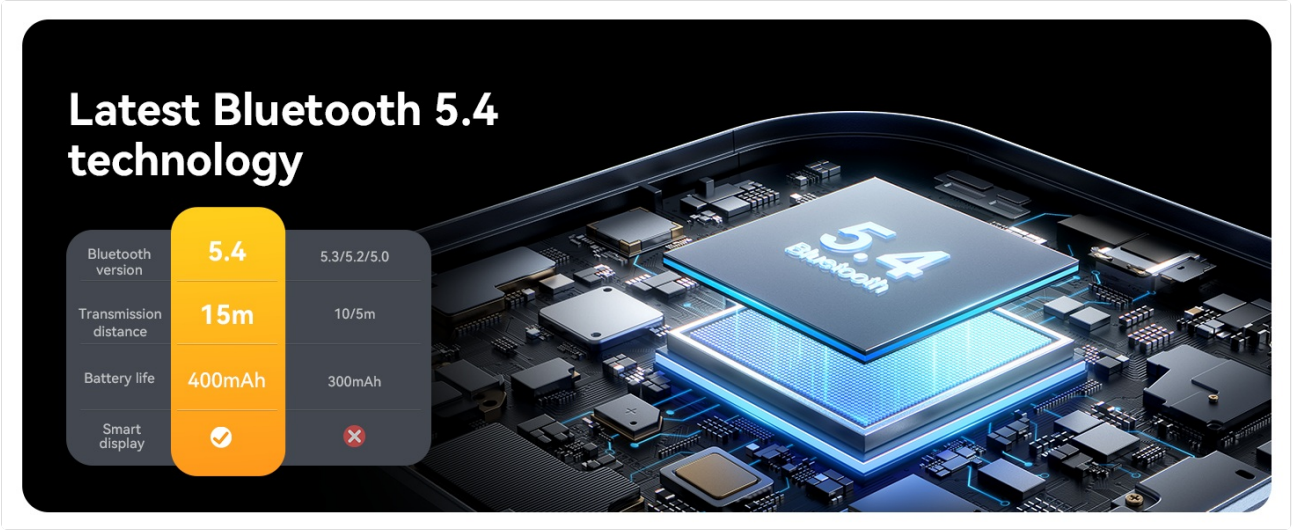


Image: Using the device in RX mode in a car.

5.3 Dual Device Connection

The device supports connecting to two Bluetooth audio devices simultaneously in TX mode, or pairing with two source devices in RX mode.

- **In TX Mode:** Connect the first Bluetooth audio device (e.g., headphones). To connect a second device, double-press the Confirm button. The device will search for and connect to the second device. Both connected devices will be displayed on the OLED screen.
- **In RX Mode:** Connect the first Bluetooth source device (e.g., Phone 1). To connect a second device (e.g., Phone 2), ensure Phone 2's Bluetooth is active and tap "JR-CB2S" in its Bluetooth settings. Both connected sources will be displayed on the OLED screen.



Image: Dual device connection capabilities in TX and RX modes.

6. Maintenance

6.1 Cleaning

Wipe the device with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the surface or internal components.

6.2 Storage

Store the device in a cool, dry place away from direct sunlight and extreme temperatures. When not in use for extended periods, ensure the device is fully charged before storage and recharge it periodically to maintain battery health.

6.3 Battery Care

To prolong battery life and ensure safe operation:

- Keep the battery away from extreme temperatures and humidity.
- Do not expose the battery to fire or water.
- Dispose of the battery according to local regulations.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound after connecting.	Incorrect cable connection, low volume, device not properly paired, incorrect mode selected.	Verify all audio cables are securely connected. Check volume levels on both the JOYROOM device and the connected audio source/receiver. Ensure the correct TX/RX mode is selected. Re-pair the Bluetooth devices.
Device does not pair.	Device not in pairing mode, Bluetooth disabled on other device, too far apart, interference.	Ensure both devices are in pairing mode. Confirm Bluetooth is enabled on the target device. Bring devices closer together. Minimize interference from other wireless devices.
Short battery life.	Battery not fully charged, high volume usage.	Ensure the device is fully charged before use. Reduce volume levels to extend battery life.
Cannot make/receive calls.	Feature not supported.	This device does not support hands-free calling functionality.

8. Specifications

Feature	Detail
Model Number	SHLS-CB2S-US
Bluetooth Version	5.4
Product Dimensions	1.88 x 1.88 x 0.57 inches
Item Weight	0.705 ounces (20 Grams)
Battery Capacity	400mAh

Feature	Detail
Battery Life (TX Mode)	Up to 30 hours (at 60% volume)
Battery Life (RX Mode)	Up to 18 hours (at 60% volume)
Transmission Distance	Up to 15 meters
Display Type	OLED
Charging Port	USB-C



Image: Overview of Bluetooth 5.4 technology benefits.

9. Safety Information

9.1 Battery Handling

- Keep the battery away from extreme temperatures and humidity.

- Do not expose the battery to fire or water.
- Dispose of the battery according to local regulations.

9.2 Interference Warning

This device may interfere with other wireless devices. Follow instructions to minimize interference and ensure optimal performance.

10. Warranty and Support

For warranty information and customer support, please refer to the contact details provided with your purchase or visit the official JOYROOM website. Our customer service team is available to assist with any questions or concerns.

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