SONRU J52

SONRU Bluetooth 5.3 Transmitter Receiver User Manual

Brand: SONRU

Model: J52

1. Introduction

Thank you for choosing the SONRU Bluetooth 5.3 Transmitter Receiver. This device is designed to provide seamless wireless audio connectivity for a wide range of devices, transforming non-Bluetooth audio sources into Bluetooth-enabled ones, and vice-versa. Please read this manual carefully before use to ensure proper operation and to maximize the product's performance.

2. Product Overview

The SONRU J52 is a compact and versatile 2-in-1 Bluetooth adapter. Below is an image of the device and its key components.



Figure 2.1: SONRU Bluetooth 5.3 Transmitter Receiver main unit with 3.5mm audio jack and airplane adapter.



Figure 2.2: Detailed view of the SONRU J52 adapter showing its buttons, ports, and included accessories such as the audio cable, Type-C charging cable, RCA audio cable, airplane audio connector, and female to female 3.5mm adapter.

3. Key Features

- **2-in-1 Transmitter & Receiver:** Seamlessly switch between TX (Transmitter) and RX (Receiver) modes to adapt to various audio needs.
- **Bluetooth 5.3 Technology:** Ensures a more stable connection, lower latency, extended range, reduced power consumption, and faster transmission speeds.
- **Hi-Fi Sound Quality:** Delivers clear and high-fidelity audio for an immersive listening experience.
- **Dual Connectivity:** Connects to two Bluetooth devices simultaneously in both TX and RX modes, allowing shared audio experiences.
- **Long Battery Life:** Built-in 300 mAh battery provides up to 14 hours of operation in TX mode and 11 hours in RX mode on a single 2.5-hour charge.
- **10-Meter Transmission Range:** Enjoy wireless audio freedom up to 10 meters (33 feet) from the connected device.
- **Hands-Free Calling (RX Mode):** Integrated microphone allows for safe hands-free calls when connected to a car stereo or headphones.
- **Automatic Reconnection:** Features an automatic memory function that reconnects to previously paired devices when Bluetooth is reactivated.
- **Wide Compatibility:** Compatible with a broad range of Bluetooth devices including headphones, AirPods Pro/Max, TVs, car stereos, speakers, laptops, tablets, and smartphones.
- **Compact and Portable:** Weighing less than 10 grams, its small size makes it ideal for travel and on-the-go use.

4. Package Contents

Please check the package for the following items:

- SONRU Bluetooth 5.3 Transmitter Receiver (J52)
- 3.5mm Audio Cable
- RCA Audio Cable
- Type-C USB Charging Cable
- Airplane Audio Connector

- 3.5mm Female to Female Adapter
- User Manual (this document)

5. Setup and Operation

5.1 Charging the Device

Before first use, fully charge the SONRU J52. Connect the included Type-C USB charging cable to the device's charging port and plug the other end into a USB power source (e.g., computer USB port, USB wall adapter). The device takes approximately 2.5 hours to fully charge.



Figure 5.1: The device charges in 2.5 hours, offering up to 14 hours in TX mode and 11 hours in RX mode.

5.2 Switching Between TX (Transmitter) and RX (Receiver) Modes

The SONRU J52 features a mode switch on its side. Slide the switch to select either TX or RX mode based on your intended use.



Figure 5.2: Illustration of the 2-in-1 functionality, demonstrating how the device acts as a transmitter for non-Bluetooth sources (TV, PC, Gym) and a receiver for non-Bluetooth audio output devices (Car, Amplifier, Marine).

5.3 TX Mode (Transmitter)

In TX mode, the SONRU J52 transmits audio from non-Bluetooth devices (e.g., TV, PC, gym equipment) to Bluetooth headphones or speakers.

1. Slide the mode switch to **TX**.
2. Connect the SONRU J52 to your non-Bluetooth audio source (e.g., TV's 3.5mm audio out port) using the provided 3.5mm audio cable or RCA cable.
3. Press and hold the MFB (Multi-Function Button) for 3 seconds to power on the device. The red and blue indicators will flash alternately, indicating pairing mode.
4. Enable Bluetooth on your receiving device (e.g., Bluetooth headphones, speaker) and ensure it is in pairing mode.
5. The SONRU J52 will automatically search for and connect to nearby Bluetooth devices. Once connected, the "A" indicator will light up, and the MFB will slowly flash blue.

6. For dual connection, after connecting the first device, press the MFB once to enter pairing mode again (the "B" indicator will flash). Connect the second Bluetooth device. Both "A" and "B" indicators will light up when two devices are successfully connected.



Figure 5.3: Step-by-step guide for connecting the SONRU J52 in TX (Transmitter) mode.



Figure 5.4: Example of dual pairing in TX mode, allowing two Bluetooth headsets to receive audio from a TV up to 10 meters away.



Figure 5.5: Using the SONRU J52 with the airplane audio connector for wireless audio during flights.

5.4 RX Mode (Receiver)

In RX mode, the SONRU J52 receives audio from Bluetooth-enabled devices (e.g., smartphone, tablet) and transmits it to non-Bluetooth audio output devices (e.g., car stereo, wired headphones, home speakers).

1. Slide the mode switch to **RX**.
2. Connect the SONRU J52 to your non-Bluetooth audio output device (e.g., car AUX port, wired speaker) using the provided 3.5mm audio cable or RCA cable.
3. Press and hold the MFB for 3 seconds to power on the device. The red and blue indicators will flash alternately, indicating pairing mode.
4. On your Bluetooth-enabled device (e.g., smartphone), search for "J52" in the Bluetooth settings and select it to connect.
5. Once connected, the "A" indicator will light up, and the MFB will slowly flash blue.
6. For dual connection, after connecting the first device, press the MFB once to enter pairing mode again (the "B"

indicator will flash). Connect the second Bluetooth device. Both "A" and "B" indicators will light up when two devices are successfully connected.

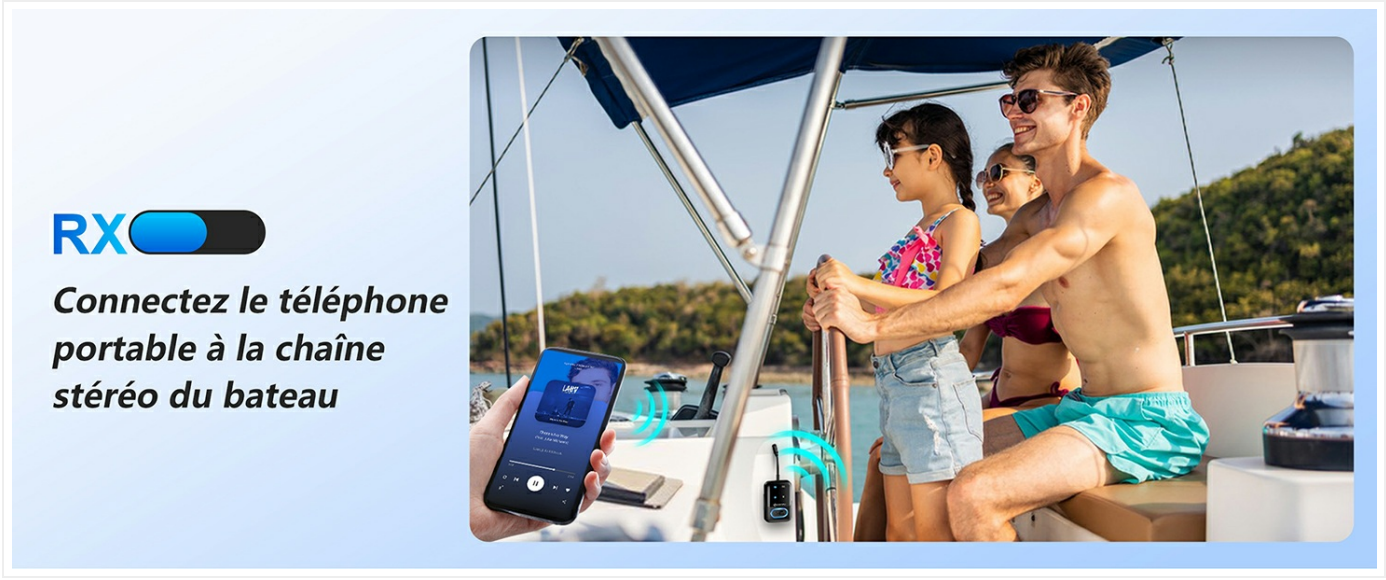


Figure 5.6: Step-by-step guide for connecting the SONRU J52 in RX (Receiver) mode.



Figure 5.7: Hands-free calling feature in RX mode, enhancing safety while driving.



Figure 5.8: The SONRU J52 providing high-quality stereo sound for outdoor gatherings in RX mode.

6. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device for at least 2.5 hours.
Cannot pair with a Bluetooth device.	Device is not in pairing mode; Bluetooth is off on the other device; devices are too far apart.	Ensure the SONRU J52 is in pairing mode (red and blue lights flashing). Turn on Bluetooth on your device and ensure it's discoverable. Move devices closer (within 10m).

Problem	Possible Cause	Solution
No audio or poor audio quality.	Incorrect mode (TX/RX); cables not fully inserted; volume too low; interference.	Verify the correct mode is selected. Ensure all audio cables are securely connected. Adjust volume on both the SONRU J52 and connected devices. Move away from sources of interference (e.g., Wi-Fi routers, other Bluetooth devices).
Dual connection not working.	Second device not in pairing mode; connection issue.	After connecting the first device, press the MFB once to re-enter pairing mode for the second device. Ensure the second device is also in pairing mode.

7. Specifications

Feature	Detail
Brand	SONRU
Model Number	J52
Color	Black
Connectivity Technology	Bluetooth
Wireless Communication Standard	Bluetooth 5.3
Special Features	2-in-1 AUX 3.5mm Audio Bluetooth Adapter, Simultaneous connection with two devices, Long battery life, Supports APTX low latency (less than 40ms), Noise reduction, Wireless music streaming.
Compatible Devices	Laptop, Smart TV, Tablet, Bluetooth headphones, Mobile phones, MP3 players, Smartphone, Bluetooth speaker, Old wired speaker.
Battery Type	Lithium
Rechargeable Battery	Yes
Power Source	Battery Powered
Material	Acrylonitrile Butadiene Styrene (ABS)
Media Type Supported	MP3, WAV, WMA, AAC, FLAC

8. Safety Information

Please observe the following safety guidelines:

- **Battery Handling:** Keep the battery away from extreme temperatures and humidity. Do not dispose of the battery in fire.

- **Interference Warning:** This device may interfere with other wireless devices. Observe local regulations for electronic waste disposal.
- Do not disassemble, repair, or modify the device yourself. Contact qualified personnel for service.
- Avoid exposing the device to water or other liquids.
- Keep out of reach of children.

9. Warranty and Support

SONRU products come with a standard warranty. For detailed warranty information, technical support, or any inquiries regarding your product, please refer to the warranty card included in your package or visit the official SONRU website. You may also contact SONRU customer service directly.

10. Product Video

Watch the official product video for a visual guide on the SONRU Bluetooth 5.3 Transmitter Receiver's features and usage.



Video: Overview of the SONRU Bluetooth 5.3 Transmitter Receiver, demonstrating its key functionalities and design.

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Example: How do I reset this device or fix this error?

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