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## SOOMFON BT021

# SOOMFON BT021 Bluetooth 5.3 2-in-1 Transmitter Receiver User Manual

Model: BT021 | Brand: SOOMFON

## 1. INTRODUCTION

This manual provides detailed instructions for the SOOMFON BT021 Bluetooth 5.3 2-in-1 Transmitter Receiver. It covers product features, setup, operation, maintenance, and troubleshooting to ensure optimal performance and user experience. Please read this manual thoroughly before using the device.



Image 1: SOOMFON BT021 Bluetooth 5.3 2-in-1 Transmitter Receiver. This image displays the compact device with its 3.5mm audio jack, control buttons, and mode switch.

## 2. PRODUCT OVERVIEW

The SOOMFON BT021 is a versatile Bluetooth 5.3 adapter designed to function as both a transmitter (TX) and a receiver (RX). It enables wireless audio streaming for various devices, enhancing connectivity for non-Bluetooth enabled equipment.

### 2.1 Key Features

- **Bluetooth 5.3 Technology:** Provides stable and efficient wireless audio transmission with low latency.
- **2-in-1 Functionality:** Operates as both a Bluetooth audio transmitter and receiver.
- **Built-in Microphone:** Supports hands-free calling in receiver mode.
- **CVC 8.0 Noise Cancellation:** Reduces background noise for clearer calls.
- **High-Fidelity Audio:** Professional HD audio decoding chip for quality sound.

- **Long Battery Life:** Up to 8 hours in RX mode, 6.5 hours in TX mode.
- **Wide Compatibility:** Connects to devices with 3.5mm audio input/output.

## 2.2 Package Contents



Image 2: Package contents of the SOOMFON BT021. This image shows the Bluetooth adapter, a USB-C charging cable, a 3.5mm auxiliary

cable, a 3.5mm connector, and the user manual.

Please verify that all items are present in the package:

- SOOMFON BT021 Bluetooth 5.3 Transmitter Receiver x1
- USB-C Charging Cable x1
- 3.5mm Auxiliary Cable x1
- 3.5mm Connector x1
- User Manual x1

### 3. DEVICE LAYOUT



Image 3: Diagram illustrating the various parts and controls of the SOOMFON BT021. It highlights the 3.5mm audio port, microphone, multi-function button (MFB), volume/track control buttons, TX/RX mode switch, and charging port.

- **3.5mm Audio Port:** For connecting to audio input/output devices.
- **Microphone:** For hands-free calls.
- **Multi-function Button (MFB):** Power ON/OFF, Play/Pause, Answer/End Call, Reject Call, Redial.
- **Volume + / Next Track Button:** Short press for volume up, long press for next track.
- **Volume - / Previous Track Button:** Short press for volume down, long press for previous track.
- **TX/RX Mode Switch:** Toggles between Transmitter and Receiver modes.
- **Charging Port (USB-C):** For charging the device.

### 4. SETUP AND PAIRING

#### 4.1 Charging the Device

Before initial use, fully charge the device. Connect the provided USB-C charging cable to the device's charging port and a USB power source (e.g., computer USB port, USB wall adapter). The LED indicator will show charging status and turn off when fully charged.

#### 4.2 Receiver Mode (RX) Setup

In RX mode, the device receives Bluetooth audio from your phone/tablet and outputs it to a non-Bluetooth audio system (e.g., car stereo, home stereo, wired headphones).

1. Switch the mode selector to **RX**.
2. Connect the BT021 to your audio system's 3.5mm AUX input using the provided audio cable or connector.
3. Power on the BT021 by pressing and holding the MFB for 3 seconds until the LED flashes blue and red, indicating pairing mode.
4. On your mobile device (smartphone, tablet), enable Bluetooth and search for "SF-BT021" in the list of available devices.
5. Select "SF-BT021" to pair. The LED will turn solid blue once connected.
6. Play audio on your mobile device, and it will stream wirelessly to your connected audio system.

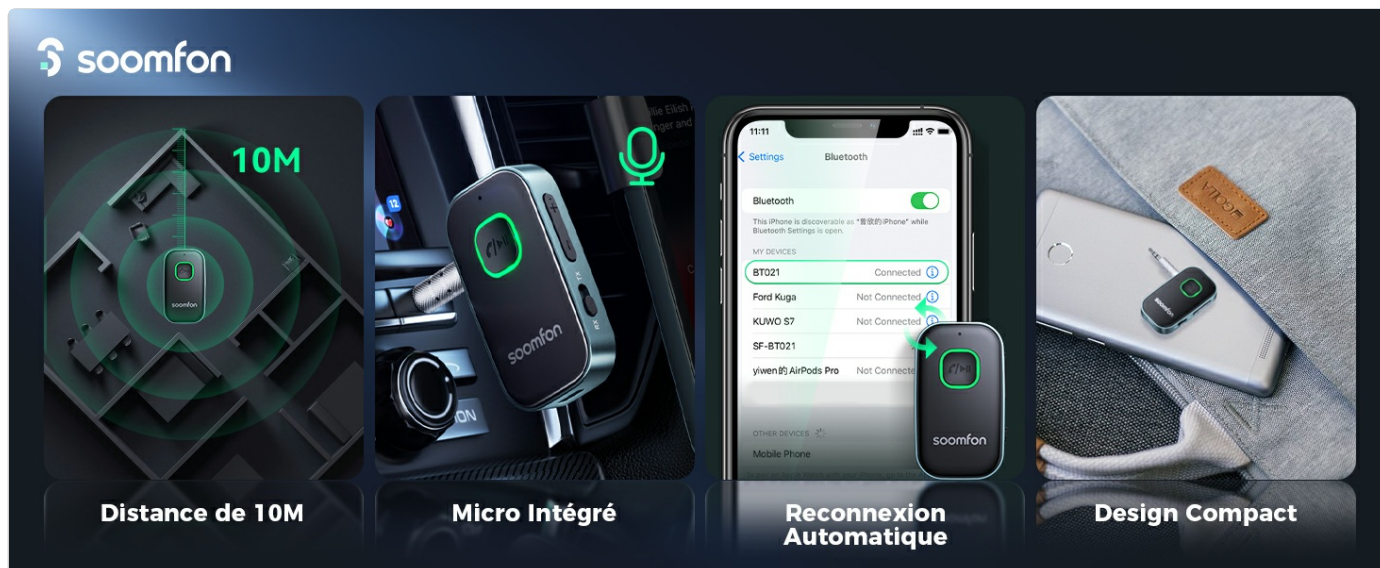


Image 4: Visual guide for connecting the SOOMFON BT021 in Receiver (RX) mode. It shows switching to RX, connecting to a car stereo, enabling Bluetooth on a phone, and pairing with "SF-BT021".

### 4.3 Transmitter Mode (TX) Setup

In TX mode, the device transmits audio from a non-Bluetooth source (e.g., TV, computer, MP3 player) to Bluetooth headphones or speakers.

1. Switch the mode selector to **TX**.
2. Connect the BT021 to your audio source's 3.5mm audio output (e.g., TV headphone jack) using the provided audio cable.
3. Power on the BT021 by pressing and holding the MFB for 3 seconds until the LED flashes blue and red, indicating pairing mode.
4. Put your Bluetooth headphones or speaker into pairing mode.
5. The BT021 will automatically search for and connect to nearby Bluetooth audio devices. The LED will turn solid blue once connected.
6. Play audio from your source device, and it will stream wirelessly to your Bluetooth headphones/speaker.





Image 5: Visual guide for connecting the SOOMFON BT021 in Transmitter (TX) mode. It shows switching to TX, connecting to a TV's AUX port, putting Bluetooth headphones in pairing mode, and automatic pairing.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

- **Power On:** Press and hold the MFB for approximately 3 seconds until the LED indicator lights up.
- **Power Off:** Press and hold the MFB for approximately 3 seconds until the LED indicator turns off.

### 5.2 Music Playback Control (RX Mode)

- **Play/Pause:** Short press the MFB.
- **Volume Up:** Short press the "Volume +" button.
- **Volume Down:** Short press the "Volume -" button.
- **Next Track:** Long press the "Volume +" button.
- **Previous Track:** Long press the "Volume -" button.

### 5.3 Call Management (RX Mode)

- **Answer/End Call:** Short press the MFB.
- **Reject Call:** Long press the MFB for 2 seconds.
- **Redial Last Number:** Double-press the MFB.

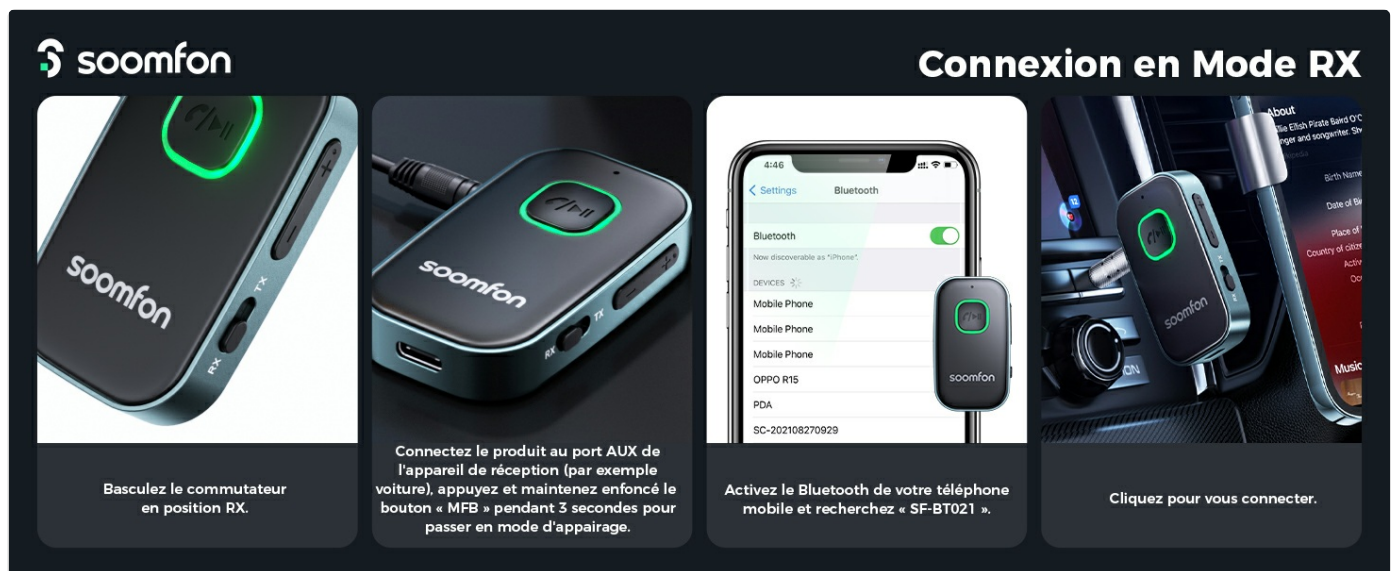


Image 6: The SOOMFON BT021 being used in a car for hands-free calling. This demonstrates the device's microphone and CVC 8.0 noise cancellation features for clear communication while driving.

## 6. MAINTENANCE AND CARE

- Keep the device dry. Moisture can damage internal circuits.
- Do not expose the device to extreme temperatures.
- Avoid dropping or subjecting the device to strong impacts.
- Clean the device with a soft, dry cloth. Do not use harsh chemicals or detergents.
- Store the device in a cool, dry place when not in use for extended periods.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device fully using the provided USB-C cable.
Cannot pair with a device.	Device not in pairing mode. Too far from the source device. Interference from other devices.	Ensure the BT021 is flashing blue and red (pairing mode). Move the devices closer (within 10 meters). Turn off other Bluetooth devices temporarily. Clear previous pairing records on your phone/speaker and try again.
No audio or poor audio quality.	Incorrect mode (TX/RX). Loose audio cable connection. Volume too low. Source device not playing audio.	Verify the BT021 is in the correct TX or RX mode. Ensure all audio cables are securely connected. Adjust volume on both the BT021 and the connected audio device. Confirm audio is playing on the source device.
Call quality is poor (RX mode).	Environmental noise. Microphone obstruction.	Ensure the microphone is not covered. Move to a quieter environment if possible.

## 8. SPECIFICATIONS

Model Name	BT021
Bluetooth Version	5.3
Bluetooth Profiles	A2DP, AVRCP, HFP, HSP
Audio Codecs	SBC, AAC
Operating Range	Up to 10 meters (33 feet)
Battery Capacity	250 mAh Lithium-ion
Charging Time	Approximately 1.5 hours
Working Time (RX Mode)	Up to 8 hours
Working Time (TX Mode)	Up to 6.5 hours
Input/Output	3.5mm Audio Jack
Charging Port	USB-C
Special Features	CVC 8.0 Noise Cancellation, Built-in Microphone, Low Latency

## 9. WARRANTY AND SUPPORT

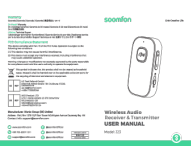

SOOMFON products come with a standard manufacturer's warranty. For specific warranty details, please refer to the warranty card included in your package or visit the official SOOMFON website.

If you encounter any issues or have questions regarding your SOOMFON BT021, please contact our customer support team. Our team is available to assist you within 24 hours.







**Customer Support Contact:** Please refer to the contact information provided on the product packaging or the official SOOMFON website.

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### Related Documents - BT021

	<a href="#">Soomfon J23 Wireless Audio Receiver &amp; Transmitter User Manual</a> User manual for the Soomfon J23 Wireless Audio Receiver & Transmitter, detailing package contents, specifications, panel description, key operation instructions, and usage modes (Receiver and Transmitter).
	<a href="#">Soomfon SF-BT013 Wireless Audio Streaming Box: User Manual &amp; Guide</a> Comprehensive user manual for the Soomfon SF-BT013 Audio Streaming Box, a versatile Bluetooth transmitter and receiver for home appliances. Learn how to connect, use TX/RX/Bypass modes, troubleshoot issues, and understand FCC compliance.



 	<p><a href="#">SF-BT020 2-in-1 Bluetooth Adapter for Car User Manual</a></p> <p>User manual for the SOOMFON SF-BT020 2-in-1 Bluetooth Adapter for Car, detailing specifications, panel description, operating instructions in receive and transmitter modes, button functions, warranty, and compliance information.</p>
 	<p><a href="#">Soomfon SF-BT023 Wireless Car FM Transmitter and Bluetooth Receiver User Manual</a></p> <p>Comprehensive user manual for the Soomfon SF-BT023, a wireless car FM transmitter and Bluetooth receiver. Learn about its features, installation, operation, and troubleshooting for safe and optimal use.</p>
	<p><a href="#">Soomfon BT17 Wireless Audio Adapter User Manual</a></p> <p>This user manual provides comprehensive instructions for the Soomfon BT17 wireless audio adapter. It covers setup and operation for Transmitter (TX) mode, Receiver (RX) mode, and Bypass mode, along with detailed troubleshooting guidance and important notes on audio settings.</p>
	<p><a href="#">Soomfon BT17 Audio Streaming Box User Manual</a></p> <p>User manual for the Soomfon BT17 Audio Streaming Box, a multifunctional wireless audio adapter for home appliances. Learn how to use it as a transmitter, receiver, or in bypass mode with setup instructions and troubleshooting tips.</p>