

Beeitzie

Beeitzie 2-in-1 Bluetooth 5.4 Transmitter Receiver User Manual

Model: B101 Pro

Brand: Beeitzie

1. INTRODUCTION

The Beeitzie B101 Pro is an advanced 2-in-1 Bluetooth 5.4 Transmitter and Receiver designed to provide seamless wireless audio connectivity. This versatile device allows you to transmit audio from non-Bluetooth sources to Bluetooth headphones or speakers (TX mode) and receive audio from Bluetooth-enabled devices to wired audio systems (RX mode). With its wide compatibility and high-quality audio support, the B101 Pro enhances your audio experience across various environments, including flights, home entertainment, and car audio systems.

2. PRODUCT OVERVIEW

The B101 Pro integrates both transmitting (TX) and receiving (RX) functionalities into a compact and portable unit. It features Bluetooth 5.4 technology and a Qualcomm Chip, ensuring stable connections and high-fidelity audio transmission with minimal delay, especially when paired with devices supporting aptX-Adaptive and aptX-Low Latency codecs.



Figure 2.1: The Beeitzie B101 Pro Bluetooth Transmitter Receiver in white, showcasing its compact design and integrated 3.5mm audio jack.

2.1. Transmitter Mode (TX)

In TX mode, the B101 Pro converts audio signals from devices like TVs, PCs, or airplane entertainment systems into Bluetooth signals. This allows you to wirelessly stream audio to your Bluetooth headphones, earbuds, or speakers. An included dual 3.5mm AUX adapter ensures compatibility with various airplane audio interfaces.

Transmitter Mode

Moderize your non-Bluetooth
TV,PC,MP3



Gaming



Airplane



TV



Bluetooth
Earbuds



Bluetooth
Speakers/Soundbar



Bluetooth
Headphones

Receiver Mode

Update your home stereosystem to wireless
streaming



Wired
Earphones



Car
Stereo



Wired
Speakers



Tablet



Cell Phone

Figure 2.2: Visual representation of the B101 Pro's Transmitter (TX) and Receiver (RX) modes, showing various compatible devices.

2.2. Receiver Mode (RX)

In RX mode, the B101 Pro acts as a Bluetooth receiver, enabling your wired speakers, earphones, car stereos, or home stereos to receive audio wirelessly from your smartphone, tablet, or other Bluetooth-enabled devices.

Running Without Wire Astriction



Qualcomm® aptX™
Lossless



TX

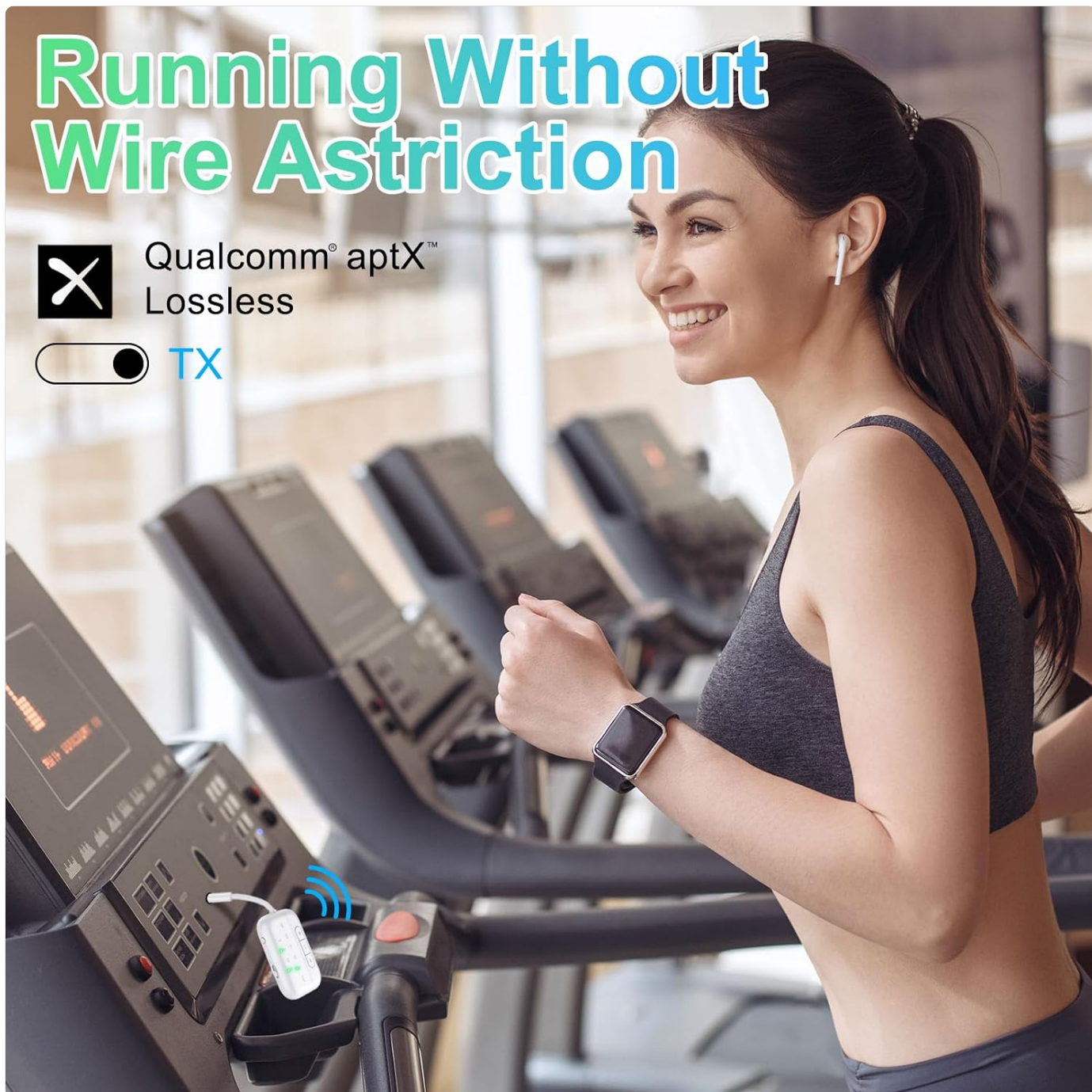


Figure 2.3: The B101 Pro connected to a boat stereo, demonstrating its use in Receiver mode for streaming music from a phone.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Beeitzie B101 Pro Bluetooth Transmitter Receiver
- Dual 3.5mm AUX Adapter (Airplane Adapter)
- 3.5mm Audio Cable
- RCA Audio Cable
- Type-C Charging Cable
- Lanyard
- User Manual

Product Diagram



Figure 3.1: Detailed product diagram illustrating the B101 Pro device and all accompanying accessories.

4. SPECIFICATIONS

Model Number	B101
Bluetooth Version	5.4
Supported Codecs	aptX-Adaptive, aptX-Low Latency, aptX, AAC, SBC
Battery Life (approx.)	Over 24 hours
Charging Time (approx.)	2 hours
Charging Port	Type-C

Dimensions	5.35 x 4.61 x 0.75 inches
Item Weight	3.52 ounces (0.1 Kilograms)
Certifications	FCC, CE, RoHS, BQB

5. SAFETY INFORMATION

To ensure safe and optimal operation of your Beeitzie B101 Pro, please observe the following safety guidelines:

- Do not expose the device to extreme temperatures, humidity, or corrosive environments.
- Avoid dropping, disassembling, or attempting to repair the device yourself. This may void the warranty and cause damage.
- Use only the provided Type-C charging cable or a certified equivalent to charge the device.
- The device is equipped with voltage endurance, overcurrent, short circuit, and NTC overheat protection features. However, always ensure proper usage to prevent potential hazards.
- Keep the device away from children and pets.
- Dispose of the device and its battery responsibly according to local regulations.

6. SETUP AND INITIAL USE

Before using your B101 Pro, ensure it is fully charged. Connect the provided Type-C charging cable to the device and a USB power source. The charging indicator light will show the charging status.

6.1. Powering On/Off

- To power on: Slide the TX/OFF/RX switch to either the "TX" or "RX" position.
- To power off: Slide the TX/OFF/RX switch to the "OFF" position.

7. OPERATING MODES AND PAIRING

The B101 Pro operates in two distinct modes: Transmitter (TX) and Receiver (RX). The mode is selected using the physical switch on the side of the device.

7.1. Transmitter (TX) Mode

Use TX mode to send audio from non-Bluetooth devices to Bluetooth headphones or speakers.

1. **Switch to TX Mode:** Slide the TX/OFF/RX switch to the "TX" position. The TX indicator light will begin flashing rapidly, indicating it's in pairing mode.
2. **Connect to Audio Source:** Plug the B101 Pro's 3.5mm audio jack into the audio output port of your device (e.g., TV, PC, airplane entertainment system). Use the appropriate adapter if necessary (e.g., dual 3.5mm AUX adapter for airplanes).
3. **Pair with Bluetooth Headphones/Speakers (First Device):**

- Ensure your Bluetooth headphones or speakers are in pairing mode.
- The B101 Pro will automatically search for and connect to nearby Bluetooth audio devices.
- Once connected, the "TX A" indicator light on the B101 Pro will illuminate steadily.

4. Pair with Second Bluetooth Headphones/Speakers (Dual Connection):

- After the first device is successfully paired, double-click the "P/R" button on the B101 Pro. The "TX B" indicator light will start flashing.
- Put your second Bluetooth headphones or speakers into pairing mode.
- The B101 Pro will connect to the second device, and the "TX B" indicator light will illuminate steadily.
- *Note: A slight audio delay of around 200ms may occur when using dual connections, especially if your devices do not support aptX-Low Latency.*

Dual Connection

Effortlessly connect and switch between two devices



Figure 7.1: The B101 Pro in use on an airplane, demonstrating dual connection capability for shared audio.

Your browser does not support the video tag.

Video 7.1: Demonstration of the Upgraded Pro Bluetooth Transmitter Receiver, including pairing and usage scenarios.

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7.2. Receiver (RX) Mode

Use RX mode to receive audio from Bluetooth-enabled devices (like smartphones) and play it through wired audio systems.

1. **Switch to RX Mode:** Slide the TX/OFF/RX switch to the "RX" position. The RX indicator light will begin flashing rapidly, indicating it's in pairing mode.
2. **Connect to Audio System:** Plug the B101 Pro's 3.5mm audio jack into the audio input port of your wired speakers, earphones, car stereo, or home stereo. Use the appropriate adapter (e.g., RCA audio cable) if needed.
3. **Pair with Bluetooth Device (First Device):**
 - On your smartphone, tablet, or other Bluetooth-enabled device, go to Bluetooth settings and search for "B101 Pro".
 - Select "B101 Pro" to connect.
 - Once connected, the "RX A" indicator light on the B101 Pro will illuminate steadily.
4. **Pair with Second Bluetooth Device (Dual Connection):**
 - After the first device is successfully paired, double-click the "P/R" button on the B101 Pro. The "RX B" indicator light will start flashing.
 - On your second smartphone or tablet, search for "B101 Pro" in Bluetooth settings and connect.
 - The "RX B" indicator light will illuminate steadily upon successful connection.

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Video 7.3: Overview of the Beeitzie Bluetooth Audio Transmitter/Receiver's functionalities and setup.

8. CHARGING THE DEVICE

The B101 Pro is equipped with a built-in rechargeable Lithium Ion battery. To charge the device:

1. Connect the provided Type-C charging cable to the charging port on the B101 Pro.
2. Connect the other end of the USB cable to a standard USB power adapter (5V/500mA recommended) or a computer's USB port.
3. The charging indicator light will show the charging status. A full charge takes approximately 2 hours.
4. Once fully charged, the device can operate for over 24 hours, depending on usage.

9. MAINTENANCE

To ensure the longevity and optimal performance of your Beeitzie B101 Pro:

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Store the device in a cool, dry place when not in use.
- Avoid exposing the device to direct sunlight or extreme temperatures.
- Do not block the ventilation holes (if any) to prevent overheating.

10. TROUBLESHOOTING

If you encounter issues with your B101 Pro, refer to the following common solutions:

Problem	Possible Cause / Solution
Device not powering on.	Battery may be depleted. Charge the device for at least 30 minutes. Ensure the TX/OFF/RX switch is in TX or RX position.
Unable to pair with Bluetooth device.	Ensure the B101 Pro is in the correct mode (TX or RX) and its indicator light is flashing rapidly. Ensure your target Bluetooth device (headphones/speakers/smartphone) is in pairing mode. Turn off any other nearby Bluetooth devices that might interfere with pairing. For AirPods, ensure they are inside their case when attempting to pair. Try resetting the B101 Pro by long-pressing the "P/R" button for 8 seconds. This clears all historical pairing data.
Low audio quality or static.	Verify the audio source is providing a clear signal. Ensure the audio cables are securely connected. Check if your connected Bluetooth device supports aptX codecs for higher quality audio. Move the B101 Pro closer to the connected Bluetooth device to reduce interference.
Audio latency (delay).	Ensure both the B101 Pro and your Bluetooth headphones/speakers support aptX-Low Latency (aptX-LL) or aptX-Adaptive codecs. A slight delay (around 200ms) can occur with dual connections, especially if aptX-LL is not supported by both connected devices.

11. WARRANTY AND SUPPORT

Beeitzie products are manufactured to high-quality standards. For any questions, technical support, or warranty inquiries, please contact Beeitzie customer service through the platform where you purchased the product or refer to the contact information provided in the original product packaging.
Please retain your proof of purchase for warranty claims.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question