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ZIOCOM Bluetooth Transmitter BT5804 User Manual

Model: BT5804 | Brand: ZIOCOM

1. INTRODUCTION

The ZIOCOM BT5804 is a versatile Bluetooth 5.0 audio transmitter designed to wirelessly stream audio from non-Bluetooth devices such as TVs, PCs, and CD players to Bluetooth-enabled headphones or speakers. It supports aptX Low Latency technology for synchronized audio and video, offers a long transmission range of up to 30 meters, and allows simultaneous connection to two Bluetooth headphones.

Wide Compatibility



Figure 1: Wide Compatibility of the ZIocom Bluetooth Transmitter. This diagram illustrates how the transmitter can connect to various audio sources (TV, Computer, CD Player, MP3/MP4) and transmit audio to Bluetooth headphones or speakers.

2. PACKAGE CONTENTS

Please check the package contents upon unboxing to ensure all items are present:

- ZIocom Bluetooth Transmitter (BT5804)
- User Manual
- RCA to 3.5mm Audio Cable
- 3.5mm Audio Cable
- USB Power Cable (Type-C)
- Optical Audio Cable



Figure 2: Included Package Contents. This image shows the ZIocom Bluetooth Transmitter and all accompanying cables and the user manual.

3. PRODUCT FEATURES

- **High-Quality Audio:** Utilizes the CSR8670 Bluetooth chip and supports A2DP, SBC, APTX, FS, and aptX-LL decoding for superior sound quality.
- **Automatic AUX/OPT Recognition:** Automatically detects the inserted audio cable (AUX or Optical) without manual mode switching.
- **Transmitter Only Functionality:** Designed to upgrade non-Bluetooth devices (TV, PC, MP3 players) to transmit audio to Bluetooth headphones, speakers, or soundbars.
- **Extended Signal Range:** Features Bluetooth 5.0 technology for a stable and precise signal, offering a transmission distance of up to 30 meters (100 feet). Note that physical obstructions and wireless interference may affect range.
- **Dual Headphone Connection:** Capable of streaming audio to two Bluetooth headphones simultaneously, allowing shared listening experiences.
- **aptX Low Latency Support:** Minimizes audio delays for a synchronized audio-visual experience, ideal for TV, movies, and gaming. Requires connected headphones to also support aptX-LL for optimal performance.

4. SETUP GUIDE

4.1 Power Connection

1. Connect the provided USB power cable to the DC IN (Type-C) port on the transmitter.
2. Plug the other end of the USB cable into a 5V USB power adapter (not included) or a USB port on your TV/PC.

4.2 Audio Input Connection

The BT5804 supports Auxiliary (3.5mm), RCA, and Optical audio inputs. The device automatically recognizes the connected cable.



Figure 3: Flexible Audio Connections. This image highlights the various input ports available on the back of the transmitter: DC IN (Type-C), AUX, and OPTICAL.

- **For Optical Connection:** Connect one end of the optical cable to the OPTICAL port on the transmitter and the other end to the optical audio output port on your TV or other audio source. Ensure your TV's audio output is set to PCM/Stereo format.
- **For AUX (3.5mm) Connection:** Connect one end of the 3.5mm audio cable to the AUX port on the transmitter and the other end to the 3.5mm audio output (headphone jack) on your device.
- **For RCA Connection:** Use the provided RCA to 3.5mm cable. Connect the RCA ends to the red and white audio output ports on your device, and the 3.5mm end to the AUX port on the transmitter.

4.3 Initial Pairing

1. Power on the ZIOCOM BT5804 transmitter. It will automatically enter pairing mode, indicated by a flashing Bluetooth icon on its display.
2. Put your Bluetooth headphones or speaker into pairing mode (refer to your device's manual for specific instructions).
3. Place the headphones/speaker close to the transmitter. The transmitter will automatically search for and connect to nearby Bluetooth devices.
4. Once connected, the Bluetooth icon on the transmitter's display will become solid, and the name of the connected device may appear.

Easy to operate

Quickly connect sound from TV to wireless headphones



Figure 4: Easy Operation. The transmitter simplifies connecting TV audio to wireless headphones.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To power on, connect the device to a 5V power source. It will automatically turn on.
- To power off, disconnect the power cable.

5.2 Connecting Two Headphones Simultaneously

The BT5804 can transmit audio to two Bluetooth headphones at the same time.

1. First, connect one pair of Bluetooth headphones as described in Section 4.3.
2. Once the first pair is connected, put the second pair of Bluetooth headphones into pairing mode.
3. The transmitter will automatically search for and connect to the second device.
4. Both headphones will now receive audio from the transmitter.

DUAL CONNECTIONS

Supports streaming audio to two headphones at the same time.



Figure 5: Dual Connections. Enjoy shared audio experiences by connecting two headphones simultaneously.

5.3 Reconnecting

After initial pairing, the transmitter will automatically attempt to reconnect to the last paired devices when powered on.

6. MAINTENANCE

To ensure the longevity and optimal performance of your ZIOCOM BT5804 Bluetooth Transmitter, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using liquid cleaners or solvents, as they may damage the surface or internal components.
- **Storage:** Store the device in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Handle the device with care. Avoid dropping it or subjecting it to strong impacts.
- **Environment:** Do not expose the device to water or other liquids. Keep it away from heat sources and open flames.

7. TROUBLESHOOTING

If you encounter issues with your ZIUCOM BT5804, please refer to the following common problems and solutions:

- **No Audio After Successful Pairing:**

If connecting via optical cable, ensure your TV's audio output format is set to **PCM/Stereo**. Different TVs may have varying settings for this. Check your TV's audio settings menu.

- **Audio Delay/Lag (Even with aptX Low Latency):**

For aptX Low Latency (aptX-LL) to function correctly and eliminate audio delays, both the ZIUCOM BT5804 transmitter and your Bluetooth headphones/speaker must support aptX-LL. If your receiving device does not support aptX-LL, you may still experience some audio-video synchronization delay.

- **Connection Issues or Short Range:**

The 30-meter range is an optimal value. Physical obstructions (walls, furniture) and wireless interference (Wi-Fi routers, other Bluetooth devices) can reduce the effective transmission distance. Try moving the transmitter and receiving device closer or away from potential interference sources.

- **Device Not Powering On:**

Ensure the USB power cable is securely connected to both the transmitter and a functional 5V USB power source. The product does not include a power adapter; use a standard 5V USB adapter.

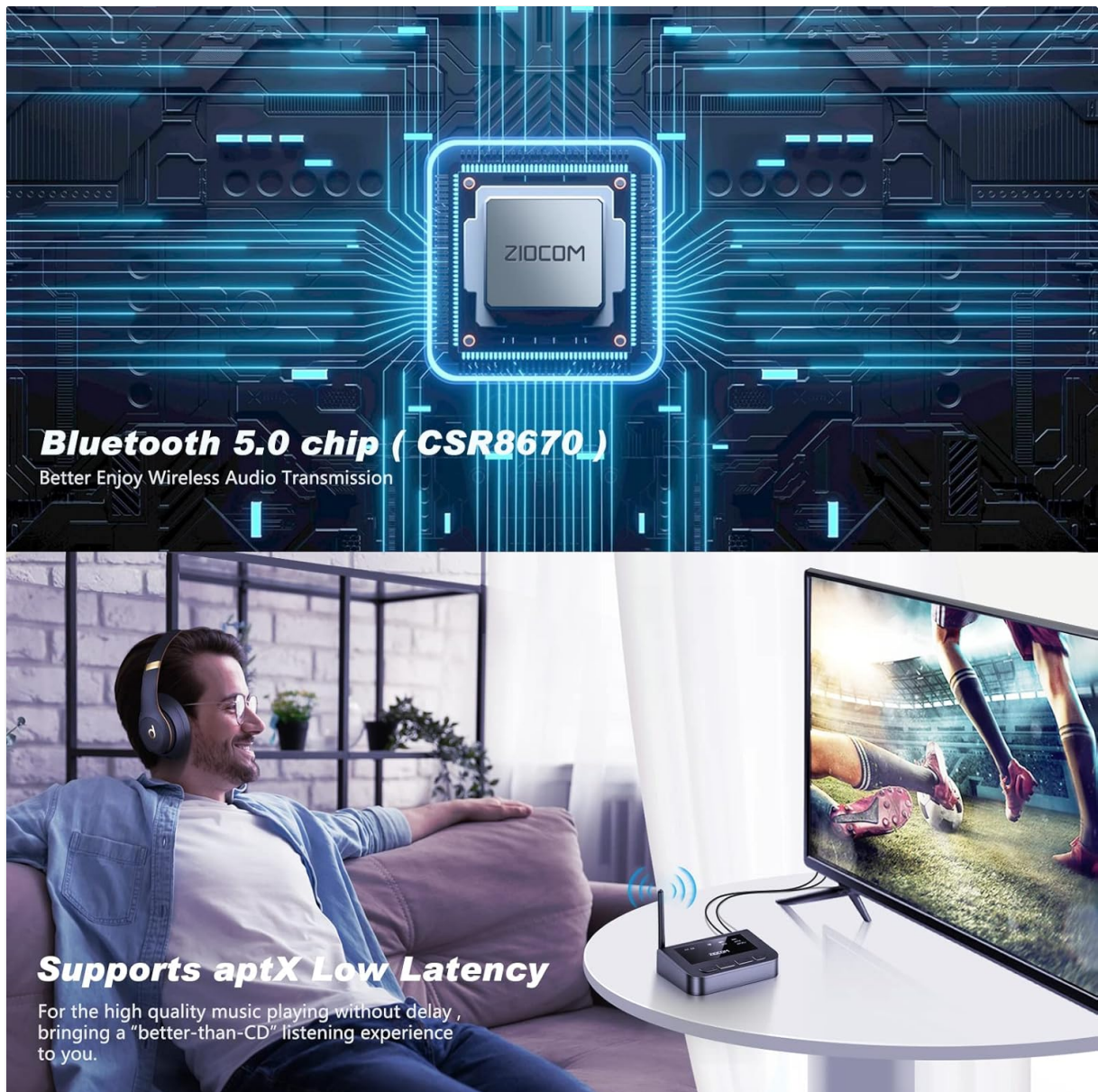


Figure 6: aptX Low Latency for Synchronized Audio. This image illustrates the technology enabling high-quality, low-latency audio transmission.

7.1 Audio Delay Performance Table

The following table provides an overview of expected audio delays based on the codecs supported by your headphones when connected to the BT5804 transmitter.

Expected Audio Delay with ZIOCOM BT5804

Bluetooth Transmitter Supports	Your Headphone Supports	Final Transmission Codec	Audio Delay	
aptX HD / aptX Low Latency / aptX / SBC	aptX Low Latency	aptX Low Latency	<=40ms	
	aptX HD	aptX HD	<=130ms	
	aptX	aptX	<=130ms	
	SBC	SBC	<=220ms	
Connect with Two Wireless Headphones	Your First Headphone Supports	Your Second Headphone Supports	Final Transmission Codec	Audio Delay
	aptX Low Latency	aptX Low Latency	aptX	<=130ms
	aptX/SBC	aptX Low Latency	SBC	<=220ms
	aptX Low Latency/aptX	SBC	SBC	<=220ms

Figure 7: Audio Delay Table. This table details the expected audio delay when connecting one or two wireless headphones, depending on the codecs supported by the headphones.

8. SPECIFICATIONS

Specification	Detail
Model Number	BT5804
Brand	ZIOCOM
Connectivity Technology	Bluetooth 5.0
Color	Black
Compatible Devices	Speakers, Personal Computers, Televisions
Interface Hardware	Bluetooth, Bluetooth 5, USB
Connector Type	3.5mm Auxiliary, RCA, Optical
Voltage	5 Volts (DC)
Data Link Protocol	Bluetooth
Human Input Interface	Buttons
Number of Channels	1

9. WARRANTY AND SUPPORT

For any technical questions or support inquiries regarding your ZIOCOM BT5804 Bluetooth Transmitter, please contact ZIOCOM customer service. We aim to respond to all technical questions within 24 hours. Please refer to your purchase documentation for specific warranty information.