## YMOO RT5013

# YMOO Bluetooth 5.3 Transmitter Receiver User Manual

Model: RT5013 (B06T2)

## 1. Product Overview

The YMOO Bluetooth 5.3 Transmitter Receiver (Model RT5013, also referred to as B06T2) is a versatile 2-in-1 audio adapter designed to enhance your audio experience. Equipped with a Bluetooth 5.3 chip and a Qualcomm control chip, it supports various audio coding protocols including SBC, MP3, AAC, aptX, aptX-LL, aptX-HD, and aptX-Adaptive, ensuring high-fidelity stereo sound quality.

This compact device functions as both a transmitter (TX) and a receiver (RX), allowing you to connect non-Bluetooth devices to Bluetooth headphones or speakers, and vice-versa. Its aptX-LL (Low Latency) technology ensures audio and video synchronization, making it ideal for watching TV or gaming.

The RT5013 features a convenient one-button reset function to clear pairing history and a dual-link capability to connect two headphones simultaneously. With a built-in battery, it offers portability for various indoor and outdoor uses, including car audio systems, airplanes, and gyms.


Image: The YMOO Bluetooth 5.3 Transmitter Receiver, a compact black device with a 3.5mm audio jack and a central power/Bluetooth button.

## 2. Package Contents

- YMOO Bluetooth 5.3 Transmitter Receiver (Model: RT5013)
- USB-C to USB-A Charging Cable
- 3.5mm Audio Cable (integrated short cable)


Image: The YMOO Bluetooth adapter shown with its USB-C charging cable and integrated 3.5mm audio cable, highlighting its compact size.

## 3. Specifications

| | |
|---|---|
| **Product Dimensions** | 2.4 x 1.18 x 0.55 inches |
| **Item Weight** | 0.776 ounces |
| **Model Number** | RT5013 |
| **Batteries** | 1 Lithium Polymer batteries required (included) |
| **Connectivity Technology** | Bluetooth 5.3 |

| | |
|---|---|
| **Power Source** | Battery Powered |
| **Supported Audio Codecs** | SBC, MP3, AAC, aptX, aptX-LL, aptX-HD, aptX-Adaptive |
| **Operating Modes** | Transmitter (TX) and Receiver (RX) |
| **Dual Link Support** | Yes (connects to 2 headphones simultaneously) |
| **Transmission Distance** | Up to 60 feet (indoor daily use) |
| **Battery Life (Approx.)** | 12H (RX mode), 13H (TX mode) |
| **Charging Time (Approx.)** | 1.5 hours |


Image: A visual representation of the YMOO Bluetooth adapter's dimensions and weight, emphasizing its compact and portable design.

## 4. Setup and Operation

### 4.1. Charging the Device

Before first use, fully charge the YMOO RT5013. Connect the provided USB-C cable to the device's charging port and the other end to a USB power source (e.g., computer USB port, USB wall adapter). The device can be used continuously for

approximately 12 hours in receiver mode and 13 hours in transmitting mode after a 1.5-hour charge.


Image: The YMOO Bluetooth adapter connected to a charging cable, illustrating its charging capability and battery life in TX/RX modes.

### 4.2. Switching Between TX (Transmitter) and RX (Receiver) Modes

The RT5013 features a physical switch to toggle between Transmitter (TX) and Receiver (RX) modes. Ensure the device is in the correct mode for your intended use.

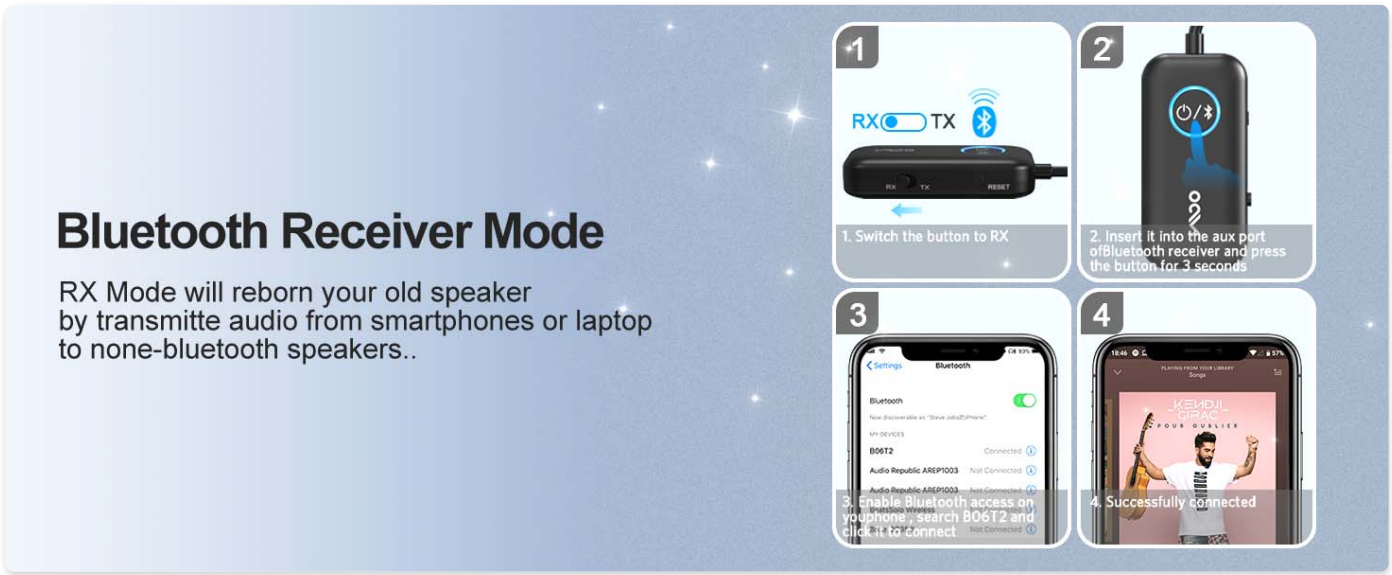


Image: A close-up of the YMOO Bluetooth adapter showing the TX/RX mode switch, indicating its dual functionality.

### 4.3. TX (Transmitter) Mode Setup

In TX mode, the RT5013 transmits audio from non-Bluetooth devices (e.g., TV, airplane entertainment systems, PC) to your Bluetooth headphones or earbuds.

1. Switch the device to TX mode using the side switch.
2. Connect the RT5013 to the audio output (3.5mm jack) of your non-Bluetooth device.
3. Long press the power button on the RT5013 for 2 seconds to turn it on. The indicator light will flash red and blue, indicating it's in pairing mode.
4. Put your Bluetooth headphones into pairing mode.
5. Bring the RT5013 close to your headphones. Once successfully paired, the indicator light on the RT5013 will turn solid blue.

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Video: Demonstrates how to set up and use the YMOO B06T2 in Transmitter (TX) Mode, showing connection to a TV and pairing with headphones.


Image: A person watching TV with headphones connected via the YMOO Bluetooth adapter in Transmitter Mode.


Image: The YMOO Bluetooth adapter connected to an airplane's in-flight entertainment system, enabling wireless audio for headphones.

### 4.4. RX (Receiver) Mode Setup

In RX mode, the RT5013 receives audio from your Bluetooth-enabled smartphone or laptop and outputs it to wired speakers or car audio systems.

1. Switch the device to RX mode using the side switch.
2. Connect the RT5013 to the audio input (3.5mm jack) of your wired speaker or car audio system.
3. Long press the power button on the RT5013 for 2 seconds to turn it on. The indicator light will flash red and blue, indicating it's in pairing mode.
4. On your smartphone or laptop, enable Bluetooth and search for "B06T2".
5. Select "B06T2" to connect. Once successfully paired, the indicator light on the RT5013 will turn solid blue.

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Video: Demonstrates how to set up and use the YMOO B06T2 in Receiver (RX) Mode, showing connection to a speaker and pairing with a smartphone.


Image: The YMOO Bluetooth adapter connected to a car's audio system, enabling wireless music streaming from a smartphone.

### 4.5. Pairing with AirPods (TX Mode Example)

This section provides specific steps for pairing your AirPods with the YMOO RT5013 in TX mode.

1. Ensure the B06T2 is in TX mode and enter pairing. Long press the power button to turn on the device, then long press the power button again to enter into pairing mode (Red and blue flashing).
2. Turn on your AirPods and go to pairing mode. There is a white button on the back of your AirPods case; long press this button until the AirPods light blinks white.
3. Bring the B06T2 close to the AirPods until the B06T2 blue light is solid, indicating a successful pairing connection.

*Note: If you are unable to establish a pairing connection after a long time, try switching the B06T2 and AirPods on and off again.*

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Video: Step-by-step guide on how to pair AirPods with the YMOO B06T2 for the first time.

### 4.6. Dual Headphone Connection (TX Mode)

The YMOO RT5013 supports connecting two wireless headphones simultaneously in TX mode.

1. First, pair one headphone with the RT5013 as described in the TX mode setup.
2. Once the first headphone is connected, press the power button on the RT5013 again to enter pairing mode for the second headphone.
3. Put the second Bluetooth headphone into pairing mode.
4. Bring the RT5013 close to the second headphone. Once both are successfully paired, the indicator light will turn purple.

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Video: This video also demonstrates the process of pairing two headphones simultaneously with the YMOO B06T2 in Transmitter Mode.

### 4.7. Changing Audio Decoding Modes

The RT5013 supports various audio coding protocols, each indicated by a different color on the device's LED indicator. You can cycle through these modes by clicking the power button.

- **Green:** aptX-HD
- **White:** aptX-Low Latency (aptX-LL)
- **Blue:** SBC

- **Yellow:** aptX-Adaptive

*Note: For aptX modes (aptX, aptX-LL, aptX-HD, aptX-Adaptive) to function, your connected receiving device (headphones/speakers) must also support the corresponding aptX codec.*

## Connection and Low Latency instruction

| Bluetooth Headphone Type | Single Connection | Single Low Latency | Dual Connection | Dual low latency |
|---|---|---|---|---|
| airpods | yes | no | yes | no |
| airpods pro/max | no | no | no | no |
| airpods gen 2/gen 3 | no | no | no | no |
| **Aptx** bluetooth headphone | yes | yes | yes | no |
| **Generic** bluetooth headphone | yes | no | yes | no |
| **Sony** bluetooth headphone | most ,1000mx4 will not work | no | most ,1000mx4 will not work | no |
| Bluetooth **Hearing Aids** without Aptx | yes | no | yes | no |
| Bluetooth **Hearing Aids** Aptx | yes | yes | yes | no |

Image: A bar chart illustrating the audio delay (latency) for different audio codecs supported by the YMOO Bluetooth adapter, highlighting the low latency of aptX-LL.

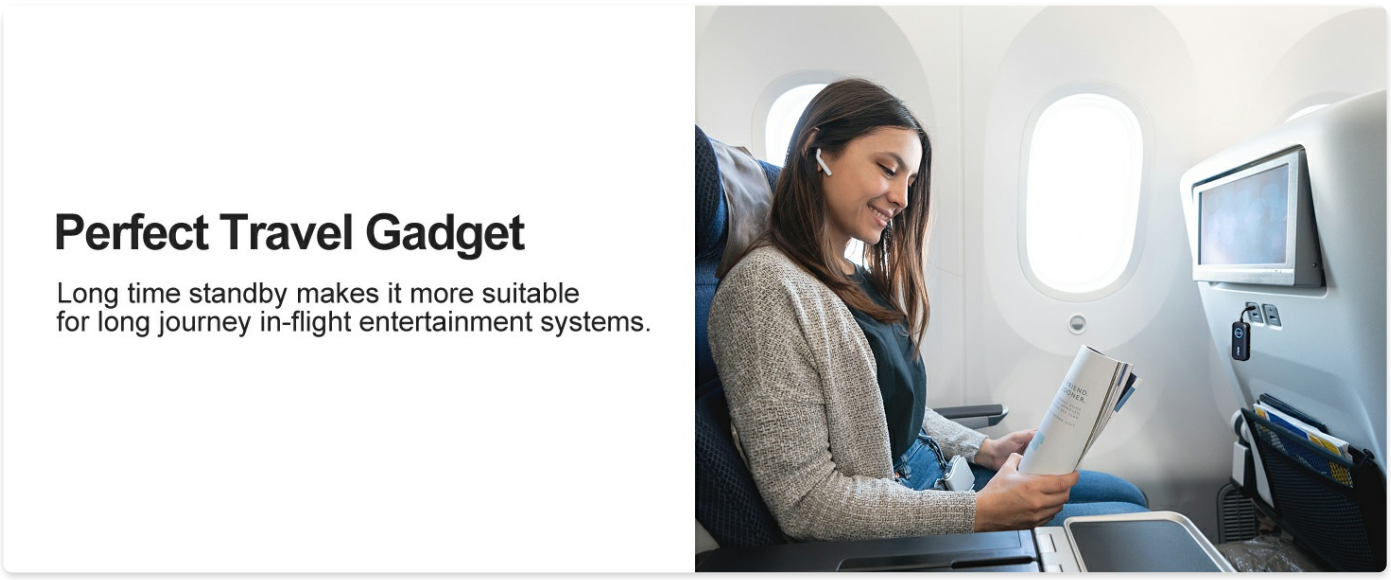


Image: A visual guide showing the different LED colors corresponding to the various audio decoding formats supported by the YMOO B06T2.

## 5. Troubleshooting

- **No Audio/Disconnection:** If you experience disconnections or no audio, ensure the device is fully charged and within the 60ft transmission range. Try resetting the device by long-pressing the RESET button for 2 seconds to clear all pairing history and re-enter pairing mode. This often resolves 90% of matching problems.
- **Audio Delay/Latency:**
  - The RT5013 supports aptX-LL for low latency (<36ms). For true picture and sound synchronization, both the RT5013 and your Bluetooth headphones must support aptX-LL.
  - We do not recommend using the B06T2 to watch TV if your Bluetooth headsets do not support aptX low latency, or if your headsets are AirPods Pro/Gen/Max, Bose, or some Sony models, as there might be a significant delay.
  - When connecting with two Bluetooth headsets, it is recommended for listening to music, but not suitable for watching TV as it would also cause ultra-high latency.
- **Compatibility Issues:**
  - The B06T2 is not suitable for AirPods Pro/AirPods Gen/AirPods Max, some Sony Bluetooth headsets (e.g., 1000mx4), and music instruments such as guitar or electronic pianos.
  - For musical instruments like electronic pianos and guitars, 2.4G transmission is typically required for audio synchronization, which Bluetooth devices cannot provide due to protocol limitations and smaller transmission channels.

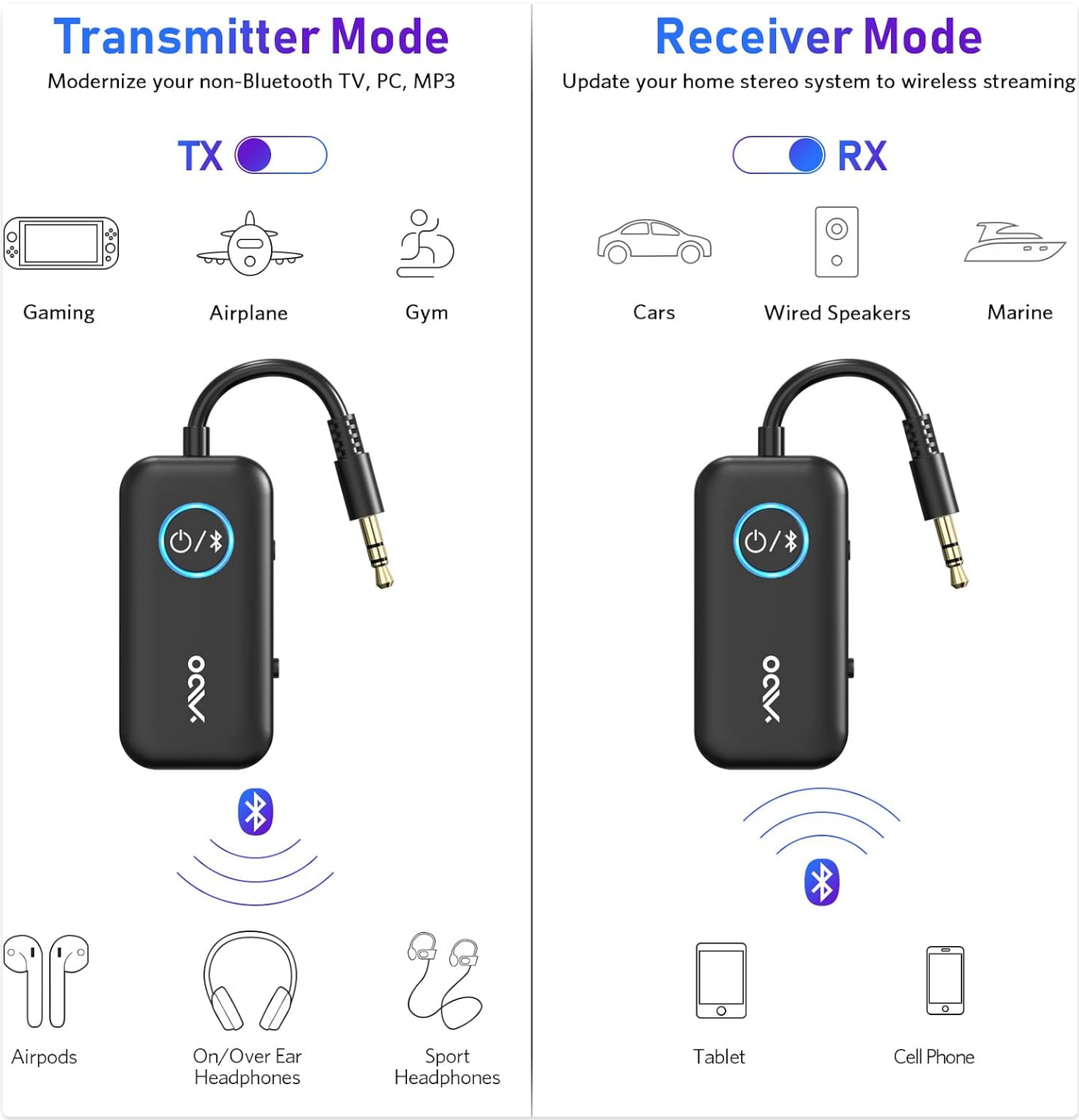


Image: A close-up of the YMOO Bluetooth adapter highlighting the reset button for easy troubleshooting and pairing history clearance.

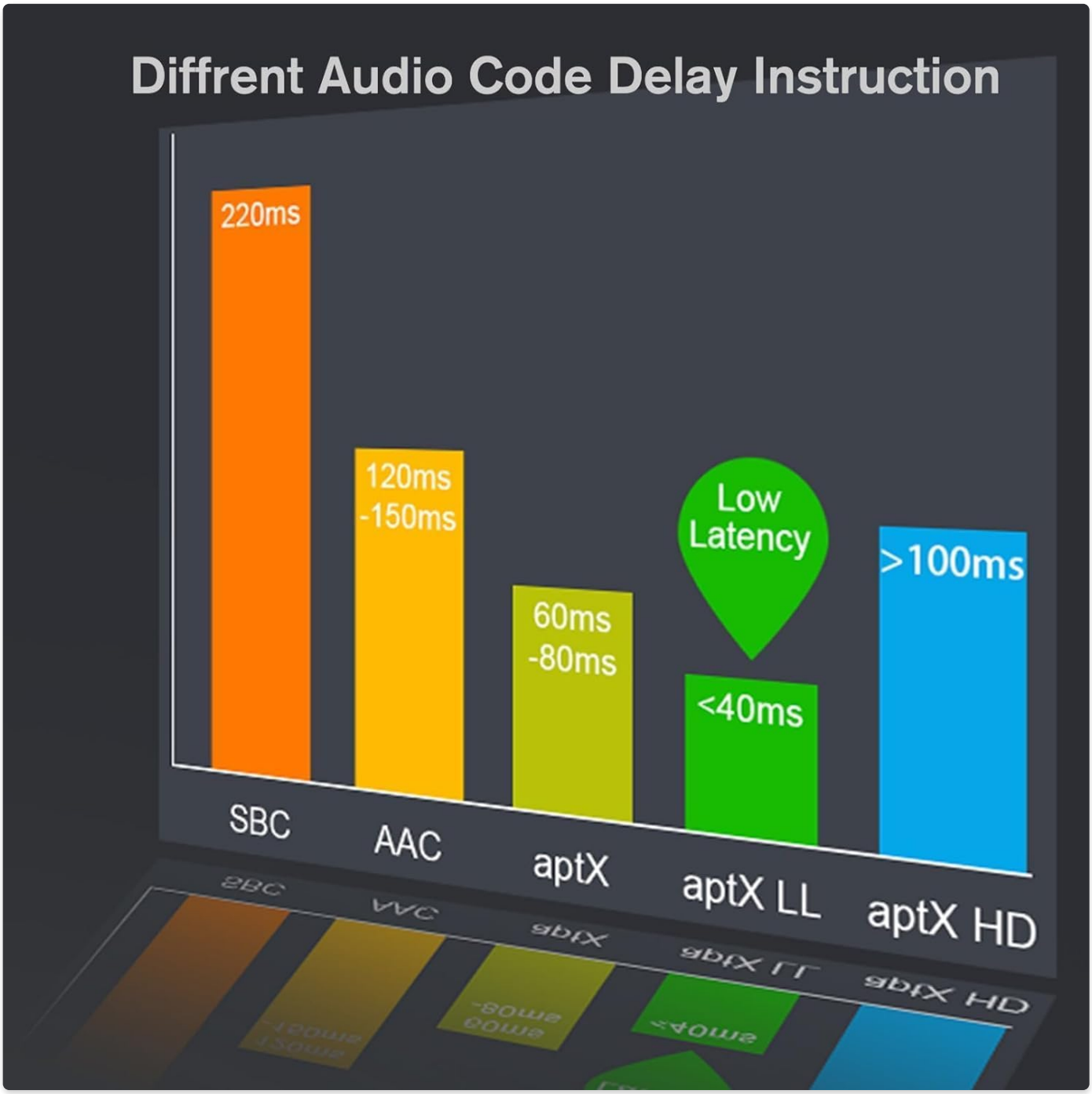


Image: A table detailing compatibility and low latency performance with various Bluetooth headphone types, including AirPods and aptX-enabled devices.

## 6. Important Notes and Warnings

- Always ensure the RT5013 is set to the correct mode (TX or RX) before attempting to pair with other devices.
- For optimal audio quality and low latency, ensure your connected Bluetooth headphones or speakers support the same aptX codecs as the RT5013.
- The device is not designed for real-time music transmission with instruments like electronic pianos or guitars due to Bluetooth protocol limitations.
- Avoid exposing the device to extreme temperatures, moisture, or direct sunlight.
- Do not attempt to disassemble or modify the device, as this will void the warranty and may cause damage.

## 7. Warranty and Support

If you encounter any disconnection problems or require assistance with your YMOO Bluetooth 5.3 Transmitter Receiver, please contact YMOO-US customer support for a free return or exchange.

For further support, please refer to the official YMOO website or contact their customer service directly.

User Guide (PDF) is available for download: Download User Guide