

AIMIBO Kit

AIMIBO Wireless HDMI Transmitter and Receiver Kit 4K User Manual

Model: Kit

1. INTRODUCTION

The AIMIBO Wireless HDMI Transmitter and Receiver Kit provides a seamless solution for wirelessly streaming high-definition audio and 4K video. This kit eliminates the need for long HDMI cables, offering a transmission range of up to 165 feet (50 meters) in an unobstructed environment. It is ideal for various applications including home entertainment, gaming, business presentations, and educational settings.

Key features include:

- **4K@30Hz Ultra HD Resolution:** Supports high-quality video output for a clear viewing experience.
- **Plug & Play Operation:** No software, apps, Bluetooth, or Wi-Fi configuration required for basic setup.
- **Low Latency:** Features 5Ghz stable casting with approximately 0.1 seconds of latency.
- **Extended Range:** Transmits signals up to 165 feet (50 meters) line-of-sight.
- **Multi-Device Support:** One receiver can pair with up to eight transmitters, and the receiver supports wireless casting from iOS/Android/Windows devices via Miracast, Airplay, DLNA, or Chrome mode.



Image 1.1: AIMIBO Wireless HDMI Transmitter and Receiver Kit components.

2. PRODUCT COMPONENTS

The AIMIBO Wireless HDMI Kit typically includes the following components:

- **Wireless HDMI Transmitter (TX):** Connects to your source device (e.g., laptop, game console).
- **Wireless HDMI Receiver (RX):** Connects to your display device (e.g., TV, projector, monitor).
- **5G External Antenna:** For the Receiver (RX) to ensure stable signal reception.
- **HDMI Adapters:** May include Mini HDMI and Micro HDMI adapters for broader compatibility.
- **USB Power Cables:** For powering both the Transmitter and Receiver.



Image 2.1: Overview of Transmitter (TX) and Receiver (RX) connections and compatible devices.

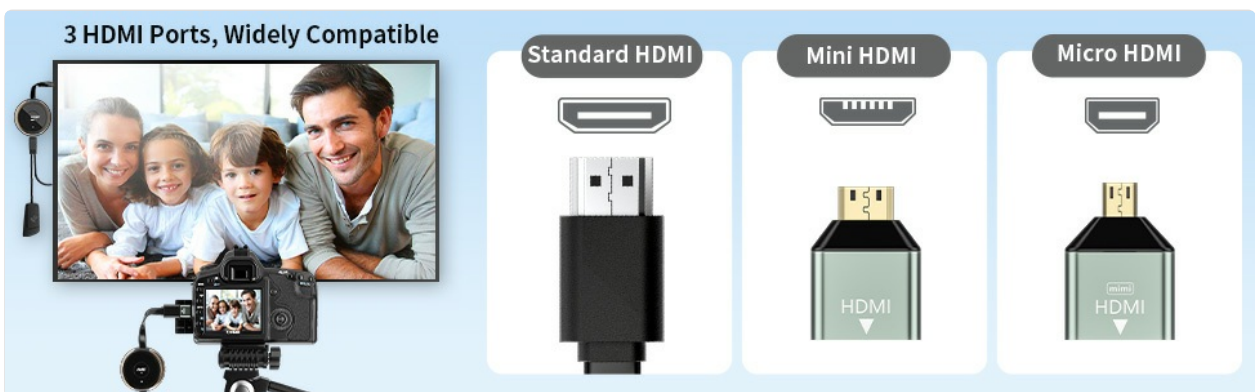


Image 2.2: Various HDMI port types supported by the kit.

3. SETUP INSTRUCTIONS

Follow these steps to set up your AIMIBO Wireless HDMI Kit:

1. **Identify Components:** Distinguish between the Transmitter (TX) and Receiver (RX) units. The RX unit typically has a port for the external 5G antenna.

2. **Connect Receiver (RX):**

- Screw the 5G external antenna into the designated port on the RX unit.
- Plug the RX unit into an HDMI input port on your display device (HDTV, projector, monitor).
- Connect the RX unit's USB power cable to a USB port on your display device or a 5V/1A USB power adapter (not included) and plug it into a power outlet. Ensure the RX unit receives sufficient power.

3. **Connect Transmitter (TX):**

- Plug the TX unit into an HDMI output port on your source device (e.g., laptop, PS5, camera, set-top box). Use the appropriate Mini or Micro HDMI adapter if necessary.
- Connect the TX unit's USB power cable to a USB port on your source device or a 5V/1A USB power adapter (not included) and plug it into a power outlet. Ensure the TX unit receives sufficient power.

4. **Automatic Pairing:** After both TX and RX units are powered on and connected, they will automatically pair. This process usually takes about 3 seconds. The indicator lights on both units will show a stable connection once paired.

5. **Language Selection (First Use):** On the first use, you may be prompted to select your preferred language on the display connected to the RX unit. Follow the on-screen instructions.

Plug and Play
Auto Pairing & Stream
No App or Bluetooth, No Lag

1 Plug 5G external antenna to Receiver to TV, and plug USB cable to TV USB port

2 Insert Transmitter to Output device like laptop, and plug USB cable to USB port

3 Wait for 3s for auto streaming

Transmission Range
50m/165FT

Image 3.1: Step-by-step guide for connecting the Transmitter and Receiver.

4. OPERATING INSTRUCTIONS

4.1 Basic Streaming

Once the TX and RX units are successfully paired, the content from your source device will automatically be mirrored or extended to your display. No further action is typically required for basic operation.

4.2 Multiple Transmitters (1 RX to 8 TXs)

The system supports connecting one Receiver (RX) to up to eight Transmitters (TXs). This is useful for sharing content from multiple source devices to a single display.

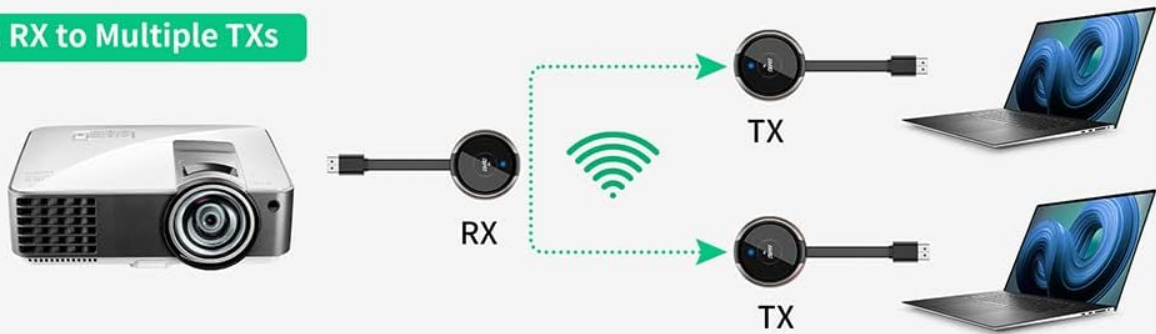
- To switch between different active Transmitters, simply press the button on the desired TX unit. The display will switch to show the content from that Transmitter.
- Ensure all TX units are powered and connected to their respective source devices.

Multiple Connection

1 RX to 1 TX



1 RX to Multiple TXs



RX for Phone/Tablet Directly Casting



Image 4.1: Illustration of various connection modes, including multiple transmitters.

4.3 Wireless Casting from Phone/Tablet

The Receiver (RX) unit can also directly cast content from iOS, Android, or Windows devices using standard wireless casting protocols.

- **Miracast:** For Android and Windows devices. Enable Miracast on your device and select the AIMIBO RX from the available devices.
- **Airplay:** For iOS devices. Enable Airplay on your iPhone/iPad and select the AIMIBO RX.
- **DLNA/Chrome Mode:** Other devices may use DLNA or Chrome casting features to connect to the RX.

Refer to your phone or tablet's operating system instructions for specific steps on enabling screen mirroring or casting features.

5. MAINTENANCE

To ensure the longevity and optimal performance of your AIMIBO Wireless HDMI Kit, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the surfaces of the Transmitter and Receiver units. Avoid using liquid cleaners or abrasive materials.

- **Storage:** When not in use for extended periods, store the kit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Handle HDMI and USB cables gently. Avoid bending them sharply or placing heavy objects on them to prevent damage.
- **Ventilation:** Ensure the units have adequate ventilation to prevent overheating, especially during prolonged use. Do not cover the ventilation holes.

6. TROUBLESHOOTING

If you encounter issues with your AIMIBO Wireless HDMI Kit, refer to the following troubleshooting tips:

6.1 No Signal or Black Screen

- **Check Power:** Ensure both the Transmitter (TX) and Receiver (RX) units are properly powered via their USB cables. The indicator lights should be on.
- **HDMI Connections:** Verify that all HDMI cables and adapters are securely connected to both the source device and the display.
- **Input Source:** Confirm that your display device is set to the correct HDMI input channel where the RX unit is connected.
- **Re-pair:** Disconnect and reconnect the power to both TX and RX units to force a re-pairing attempt.
- **Source Device Output:** Ensure your source device is outputting a signal. Try connecting the source device directly to the display with an HDMI cable to confirm it works.

6.2 Intermittent Connection or Poor Video Quality

- **Distance and Obstructions:** Reduce the distance between the TX and RX units. Avoid placing thick walls, furniture, or other electronic devices that may cause interference between the units. The effective range is significantly reduced when transmitting through walls (e.g., to 32 feet / 10 meters).
- **Interference:** Keep the units away from other wireless devices (Wi-Fi routers, cordless phones, microwaves) that operate on similar frequencies.
- **Antenna:** Ensure the 5G external antenna on the RX unit is securely attached and oriented for optimal reception.
- **Power Supply:** Ensure both units are receiving stable and sufficient power. Use a dedicated 5V/1A power adapter if the USB port on your device is not providing enough power.

6.3 Latency Issues

- While the system boasts low latency, environmental factors can affect it. Minimize obstructions and interference as described above.
- Ensure the source device is not under heavy load, which could also contribute to delays.

7. SPECIFICATIONS

Feature	Specification
Brand	AIMIBO
Model Number	Kit

Feature	Specification
Connectivity Technology	Wireless (5Ghz), Bluetooth, Wi-Fi (for casting)
Connector Type	HDMI
Resolution	4K (3840x2160)
Video Output Resolution	3840x2160
Video Codec	H.264, H.265/HEVC
Transmission Range	Up to 165FT / 50 meters (line-of-sight)
Latency	Approximately 0.1 seconds
Compatible Devices	Laptops, PCs, PS5, Cameras, Smartphones, Tablets, Projectors, HDTVs, Monitors, TV Boxes, DVD players, DV machines, Set-top boxes
Power Output	5 Watts

5Ghz Stable Cast 0.1s Latency

Enjoy your project on a big screen with 4K ultra clear image and only 0.1S delay



Image 7.1: Visual representation of 5Ghz stable casting performance.

8. WARRANTY AND SUPPORT

AIMIBO products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official AIMIBO website. If you encounter any issues or require technical assistance, please contact AIMIBO customer support through the contact information provided on the product packaging or their official website.

Please retain your proof of purchase for warranty claims.