AIMIBO Wireless HDMI Transmitter and 3 Receivers

AIMIBO Wireless HDMI Transmitter and 3 Receivers User Manual

Model: Wireless HDMI Transmitter and 3 Receivers

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AIMIBO Wireless HDMI Transmitter and 3 Receivers system. This system allows for wireless transmission of HDMI signals, supporting various configurations for video distribution and KVM functionality.

Image 1.1: Full HD 1080p & 5.8G Stable Transmission. This image highlights the system's capability to transmit Full HD 1080p video content wirelessly using stable 5.8GHz technology, demonstrating a single Transmitter (TX) connected to a source and two Receivers (RXs) connected to displays.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1x AIMIBO Wireless HDMI Transmitter (TX)
- 3x AIMIBO Wireless HDMI Receivers (RX)
- 4x Power Adapters (DC 5V/2A)
- 1x HDMI Cable
- 1x USB-A to USB-B Cable (for KVM function)
- 4x IR Blaster Cables (1 for TX, 3 for RXs)
- User Manual (this document)

3. PRODUCT OVERVIEW

Familiarize yourself with the components and ports of the Transmitter (TX) and Receiver (RX) units.
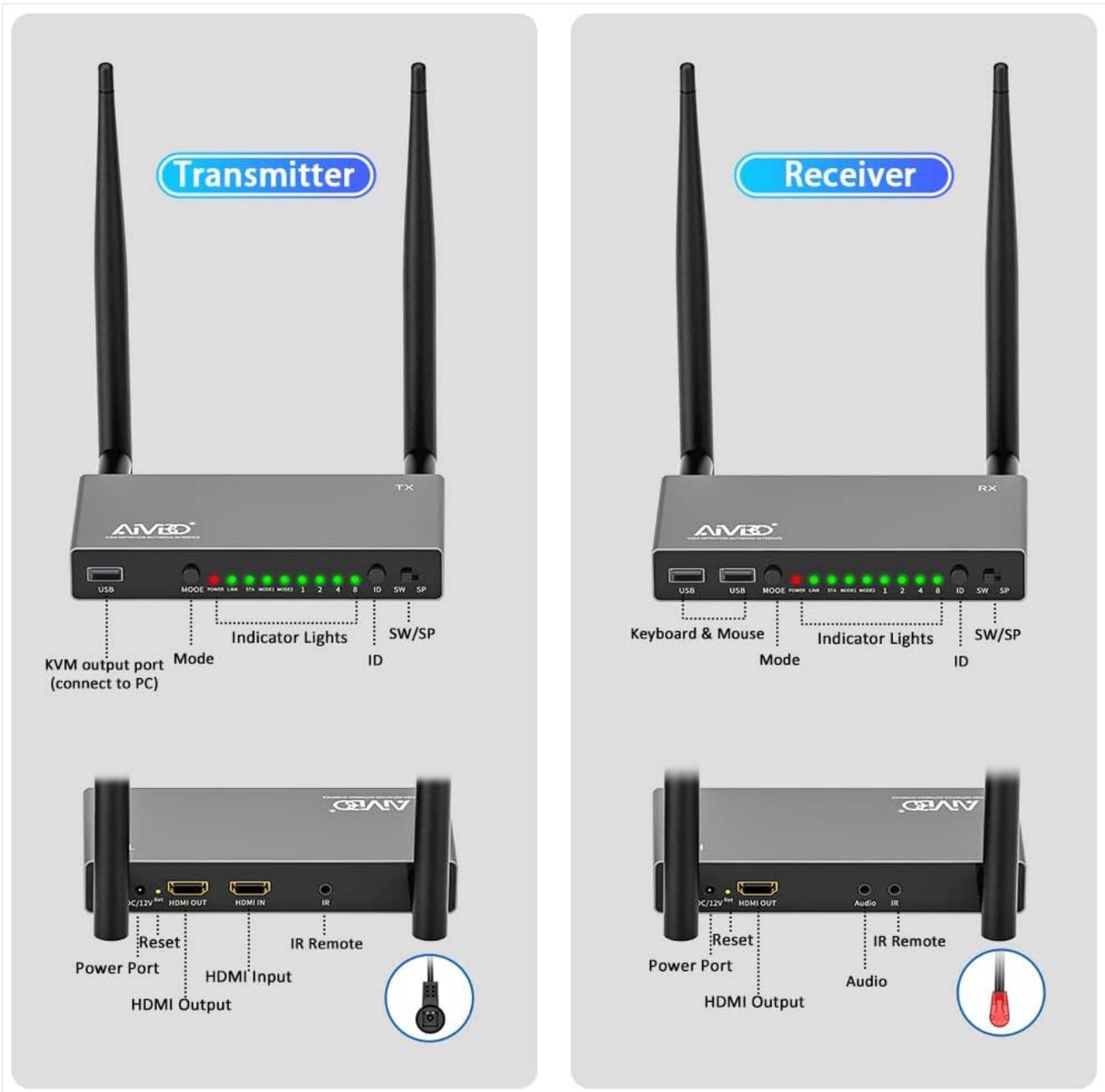

Image 3.1: Transmitter and Receiver Components. This image displays the front and rear panels of both the Transmitter (TX) and Receiver (RX) units. The Transmitter shows a USB port for KVM output, indicator lights, SW/SP switch, ID switch, power port, HDMI input, HDMI output (loop-out), and IR remote port. The Receiver shows USB ports for keyboard and mouse, indicator lights, SW/SP switch, ID switch, power port, HDMI output, audio port, and IR remote port.

3.1 Transmitter (TX)

- **USB (KVM output port):** Connects to a PC for KVM functionality.
- **MODE Button:** Switches between different operating modes.
- **Indicator Lights:** Display connection status, signal strength, and mode.
- **SW/SP Switch:** Selects between Switch (SW) and Splitter (SP) modes.
- **ID Switch:** Used for pairing and channel selection.
- **DC 5V/12V:** Power input port.
- **HDMI IN:** Connects to the HDMI source device.

- **HDMI OUT (Loop-Out):** Connects to a local display for monitoring the source.
- **IR Remote:** Connects to the IR blaster cable for remote control extension.

3.2 Receiver (RX)

- **USB (Keyboard & Mouse):** Connects to a keyboard and mouse for KVM functionality.
- **MODE Button:** Switches between different operating modes.
- **Indicator Lights:** Display connection status, signal strength, and mode.
- **SW/SP Switch:** Selects between Switch (SW) and Splitter (SP) modes.
- **ID Switch:** Used for pairing and channel selection.
- **DC 5V/12V:** Power input port.
- **HDMI OUT:** Connects to the HDMI display device.
- **Audio:** Audio output port.
- **IR Remote:** Connects to the IR blaster cable for remote control extension.

4. SETUP INSTRUCTIONS

Follow these steps to set up your wireless HDMI system.

1. **Connect the Transmitter (TX):**
   - Connect your HDMI source device (e.g., laptop, Blu-ray player) to the **HDMI IN** port of the TX unit using an HDMI cable.
   - (Optional) If using the HDMI Loop-Out feature, connect a local display to the **HDMI OUT** port of the TX unit.
   - (Optional) For KVM functionality, connect the USB-A to USB-B cable from the TX's **USB (KVM output)** port to your PC.
   - (Optional) Connect an IR blaster cable to the **IR Remote** port on the TX and position the IR emitter near your source device's IR receiver.
   - Connect the power adapter to the **DC 5V/12V** port of the TX unit and plug it into a power outlet.

2. **Connect the Receiver(s) (RX):**
   - Connect your HDMI display device (e.g., TV, projector) to the **HDMI OUT** port of each RX unit using an HDMI cable.
   - (Optional) For KVM functionality, connect your keyboard and mouse to the **USB** ports on the RX unit.
   - (Optional) Connect an IR blaster cable to the **IR Remote** port on the RX and position the IR emitter near your display device's IR receiver (if controlling the display).
   - Connect the power adapter to the **DC 5V/12V** port of each RX unit and plug it into a power outlet.

3. **Power On:**
   - Ensure all devices (source, displays, TX, RXs) are powered on.
   - The TX and RX units should automatically establish a wireless connection. Observe the indicator lights for connection status.

4. **Pairing (if necessary):**

   In most cases, the units are pre-paired. If a connection is not established, or if you are adding new units, you may need to manually pair them. Refer to the "Operating Modes" section for details on using the ID switch and MODE button for pairing.

5. OPERATING MODES AND FEATURES

5.1 Splitter Mode (SP Mode): 1 Transmitter to Multiple Receivers

In SP Mode, one Transmitter (TX) can send an HDMI signal to multiple Receivers (RXs) simultaneously. This is ideal for distributing a single video source to several displays.

- Set the **SW/SP** switch on both the TX and all RX units to **SP**.
- Ensure the **ID** switches on all connected units are set to the same channel.
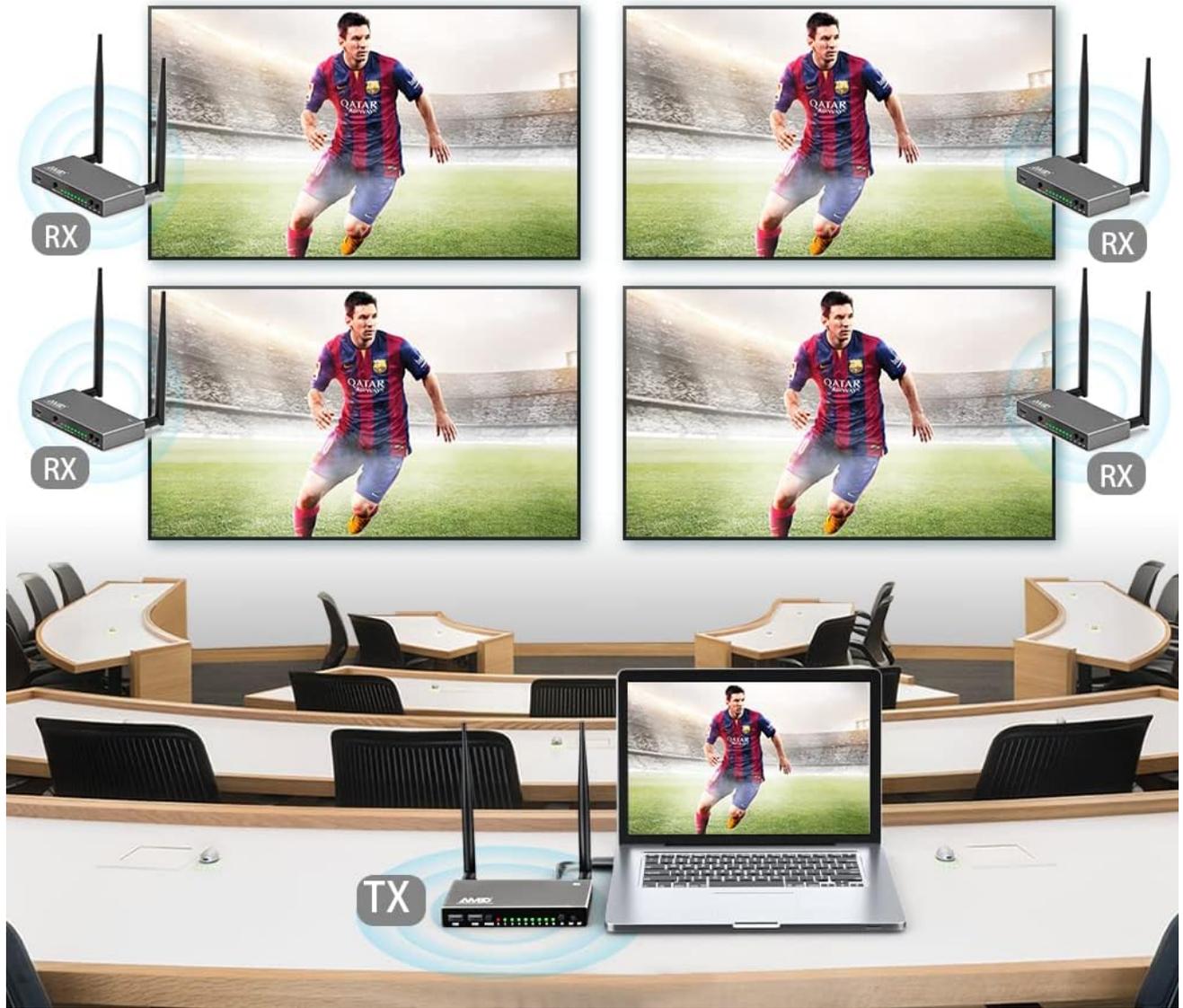- The system supports up to 1 TX connecting to 8 RXs.

Image 5.1.1: SP Mode Configuration. This image illustrates a setup where a single Transmitter (TX) connected to a laptop wirelessly sends its video signal to four separate Receivers (RXs), each connected to a display, effectively mirroring the content across multiple screens. This demonstrates the 1 TX to 4 RXs capability in Splitter Mode.

Image 5.1.2: SP Mode Application Example. This image provides two examples of SP Mode. The top part shows a multi-floor house with a TX on one floor and RXs on other floors, indicating wireless signal distribution across different rooms. The bottom part shows a 1x8 configuration, where one TX can pair with up to 8 RXs, displaying the same content on 8 screens simultaneously.

5.2 Switch Mode (SW Mode): Multiple Transmitters to 1 Receiver

In SW Mode, multiple Transmitters (TXs) can send signals to a single Receiver (RX). The user can switch between different source devices connected to the TXs using the MODE button on the RX.

- Set the **SW**/**SP** switch on all TX units and the RX unit to **SW**.
- Assign a unique **ID** to each TX unit. The RX unit should be set to the ID of the TX you wish to view.
- Press the **MODE** button on the RX to cycle through available TX signals.
- The system supports up to 8 TXs connecting to 1 RX.

Image 5.2.1: SW Mode Configuration. This image depicts a meeting room scenario where multiple participants, each with a laptop connected to a Transmitter (TX), can wirelessly send their presentation to a single Receiver (RX) connected to a large projector screen. The RX allows switching between the different TX sources.

5.3 KVM Functionality (Keyboard, Video, Mouse)

The KVM feature allows you to control a remote computer using a keyboard and mouse connected to the Receiver (RX) unit.

- Connect the USB-A to USB-B cable from the TX's **USB (KVM output)** port to your computer's USB port.
- Connect your keyboard and mouse to the **USB** ports on the RX unit.
- Ensure the TX and RX are properly connected and displaying the video signal. You should now be able to control the remote computer with the keyboard and mouse connected to the RX.

Image 5.3.1: KVM Function in Use. This image illustrates the KVM functionality. A laptop is connected to a Transmitter (TX), and a desktop monitor is connected to a Receiver (RX). A user is operating a keyboard and mouse connected to the RX, controlling the laptop's display shown on the monitor, demonstrating remote control via KVM.

5.4 HDMI Loop-Out on Transmitter (TX)

The Transmitter (TX) unit includes an HDMI Loop-Out port, allowing you to connect a local display to monitor the source content without wireless transmission.

- Connect your HDMI source to the **HDMI IN** port of the TX.
- Connect a local display (e.g., a monitor or TV) to the **HDMI OUT (Loop-Out)** port of the TX using an HDMI cable.
- The content from your source will be displayed on both the local monitor and wirelessly transmitted to the RX units.

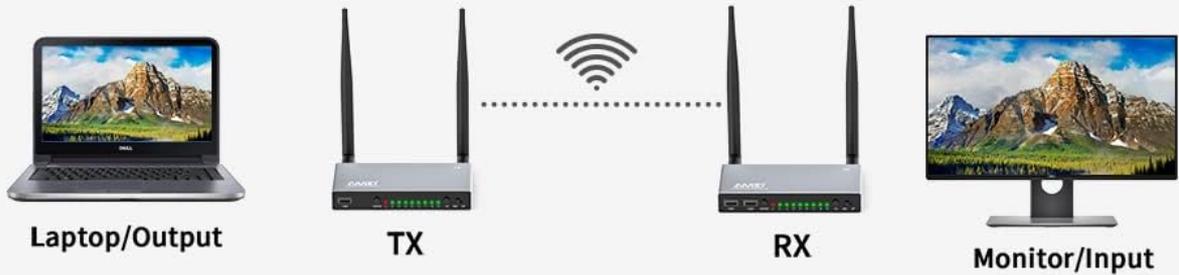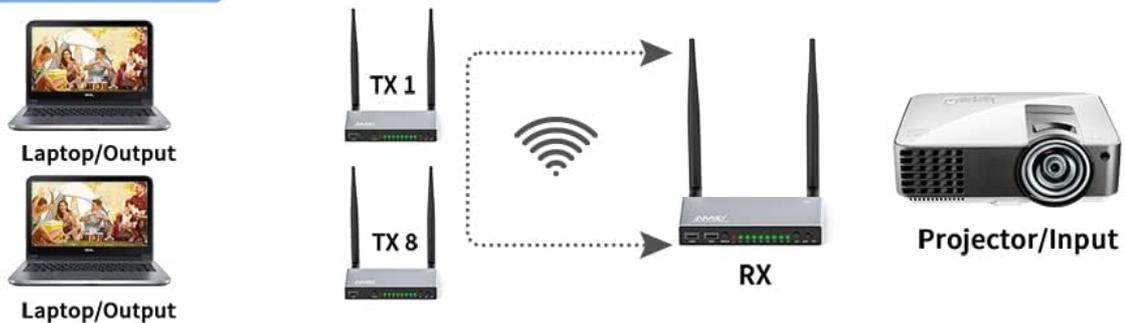**Image 5.4.1: HDMI Loop-Out Feature.** This image demonstrates the HDMI Loop-Out function. A laptop is connected to the Transmitter (TX). The TX then outputs the video signal to a local monitor via its HDMI OUT port, while simultaneously transmitting the signal wirelessly to a larger television screen, allowing for local monitoring and remote display.
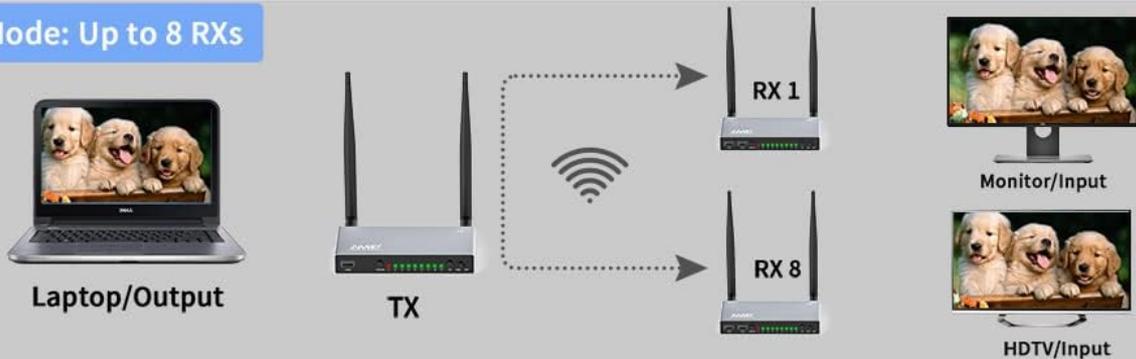
Image 5.5.1: Multiple TX/RX Support Diagram. This diagram provides a comprehensive overview of the system's flexibility, illustrating three main configurations: SW Mode (1 TX to 1 RX), SW Mode (up to 8 TXs to 1 RX for switching between sources), and SP Mode (1 TX to up to 8 RXs for distributing a single source to multiple displays).

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the units. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure the units are placed in a well-ventilated area to prevent overheating. Do not block ventilation openings.
- **Power:** Use only the provided power adapters. Disconnect power during lightning storms or when unused for long periods.
- **Environment:** Avoid exposing the units to extreme temperatures, humidity, or direct sunlight. Keep away from water and other liquids.
- **Handling:** Handle the units with care. Avoid dropping or subjecting them to strong impacts.

7. TROUBLESHOOTING

If you encounter issues with your wireless HDMI system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No signal on display.	- Power not connected. - HDMI cables loose or faulty. - TX and RX not paired. - Incorrect input selected on display. - Signal interference.	- Ensure TX and RX units are powered on. - Check all HDMI cable connections. Try different cables. - Verify TX and RX ID switches are set correctly and units are paired. - Select the correct HDMI input on your display. - Reduce distance between TX/RX, remove obstructions, or change wireless channel (if applicable).
Video flickering or intermittent signal.	- Weak wireless signal. - Interference from other devices. - Resolution incompatibility.	- Move TX and RX closer together. - Ensure line of sight between TX and RX. - Avoid placing units near Wi-Fi routers, microwaves, or other 5.8GHz devices. - Try a lower resolution on the source device.
KVM (keyboard/mouse) not working.	- USB cable not connected or faulty. - Incorrect USB port used. - Driver issues on PC.	- Ensure the USB-A to USB-B cable is securely connected between TX and PC. - Ensure keyboard/mouse are connected to the correct USB ports on the RX. - Try different USB ports on the PC. - Restart the PC and the wireless HDMI units.

8. SPECIFICATIONS

The following are general specifications for the AIMIBO Wireless HDMI Transmitter and 3 Receivers system. Specific performance may vary based on environmental factors.

- **Brand:** AIMIBO
- **Model:** Wireless HDMI Transmitter and 3 Receivers
- **ASIN:** B0FCBXYZ65
- **Wireless Frequency:** 5.8 GHz
- **Video Resolution:** Up to 1080p Full HD
- **Transmission Distance:** Varies based on environment and obstructions.
- **HDMI Standard:** HDMI 1.3/1.4 (typical for 1080p systems)
- **Power Supply:** DC 5V/2A (via included power adapters)
- **Operating Modes:** Splitter (SP) Mode (1 TX to up to 8 RXs), Switch (SW) Mode (up to 8 TXs to 1 RX)
- **Features:** KVM Function, HDMI Loop-Out

9. WARRANTY AND SUPPORT

AIMIBO products are designed for reliability and performance. For warranty information, technical support, or customer service inquiries, please refer to the contact information provided with your purchase or visit the official AIMIBO website.

Please have your product model and purchase details ready when contacting support.