Vrriis WL009-FFF

Vrriis Wireless HDMI Transmitter and Receiver User Manual

Model: WL009-FFF

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1. Introduction

Thank you for choosing the Vrriis Wireless HDMI Transmitter and Receiver. This kit provides a reliable and high-quality solution for wirelessly extending HDMI signals up to 820 feet (250 meters) in open environments. Designed for ease of use, it supports Full HD 1080p @60Hz transmission with minimal latency, making it ideal for various applications including home entertainment, office presentations, and professional video setups. This manual will guide you through the setup, operation, and maintenance of your device, ensuring optimal performance.

2. Key Features

- **Extended Wireless Range:** Transmits 1080P Full HD HDMI signals wirelessly up to 820 feet (250 meters) in open areas using dual 2.4/5.8GHz high-speed transmission. Note that walls, bricks, or glass may reduce signal coverage.
- **Full HD 1080p Transmission:** Supports input/output resolutions up to 1080p @60Hz, delivering clear, stable, and

smooth video with high-quality audio. Features a low latency of 0.06 seconds, suitable for real-time applications.

- **HDMI Loop Out & IR Remote Control:** The transmitter includes an HDMI loop-out port for local display monitoring. The integrated IR remote control allows you to control the source device from the receiver's location.
- **Plug & Play Operation:** No software installation required. Simply connect the transmitter to your HDMI source and the receiver to your display for immediate use.
- **Wide Compatibility:** Compatible with various HDMI-enabled devices such as TVs, projectors, Blu-ray players, set-top boxes, DVRs, laptops, and gaming consoles (e.g., PS4).
- **Multi-Receiver Support:** One transmitter (TX) can connect to up to four receivers (RXs) simultaneously. Note that increasing the number of receivers may slightly reduce the maximum transmission distance.

Image: The Vrriis Wireless HDMI Transmitter and Receiver units, showcasing their compact design and dual antennas.

3. What's in the Box

Please verify that all items are present in your package:

- 1 x Transmitter (TX) Unit
- 1 x Receiver (RX) Unit
- 2 x USB-C Power Cables
- 2 x Power Adapters
- 4 x Antennas
- 2 x Infrared (IR) Cables

4. Setup Guide

Follow these steps to set up your Vrriis Wireless HDMI Extender kit:

1. **Attach Antennas:** Screw the four provided antennas onto the corresponding ports on both the Transmitter (TX) and Receiver (RX) units. Ensure they are securely fastened.
2. **Connect Transmitter (TX):**
    - Connect one end of an HDMI cable (not included) to the HDMI output of your source device (e.g., laptop, PS4, set-top box).
    - Connect the other end of the HDMI cable to the **HD IN** port on the Transmitter (TX) unit.
    - (Optional) If you wish to monitor the source locally, connect an HDMI cable from the **LOOP OUT** port on the TX unit to a local display (e.g., TV, monitor).
    - Connect one USB-C power cable to the TX unit's power input and the other end to a power adapter, then plug it into a power outlet.
3. **Connect Receiver (RX):**
    - Connect one end of an HDMI cable (not included) to the **HD OUT** port on the Receiver (RX) unit.
    - Connect the other end of the HDMI cable to the HDMI input of your display device (e.g., TV, projector).
    - Connect the second USB-C power cable to the RX unit's power input and the other end to a power adapter, then plug it into a power outlet.
4. **Power On:** Ensure both the Transmitter and Receiver units are powered on. The units will automatically pair and establish a connection. The indicator lights will show connection status.
5. **IR Cable Connection (Optional):** If you plan to use the IR remote control feature, connect one IR cable to the IR OUT port on the TX unit and position the IR emitter near the IR sensor of your source device. Connect the other IR cable to the IR IN port on the RX unit and position the IR receiver in a location where your remote control can easily send signals to it.

Image: A diagram illustrating the connection process for the Transmitter (TX) and Receiver (RX) units, showing HDMI input/output and optional loop-out and IR connections.

5. Operating Instructions

5.1 Basic Operation

Once both the Transmitter and Receiver are powered on and connected correctly, they will automatically establish a wireless link. The video and audio from your source device will be transmitted to the connected display.

- Ensure your display is set to the correct HDMI input.
- The system is designed for plug-and-play functionality, requiring no additional configuration for basic use.

5.2 Using the HDMI Loop Out

The HDMI Loop Out port on the Transmitter (TX) allows you to connect a local display. This is useful for monitoring the content being transmitted wirelessly or for having a display near the source device.

- Connect an HDMI cable from the TX unit's **LOOP OUT** port to your local display.
- The local display will show the same content as the wirelessly connected display.

Image: Illustration showing the HDMI loop-out feature on the transmitter, allowing a local display to mirror the wirelessly transmitted content.

5.3 IR Remote Control Functionality

The included IR cables enable you to control your source device (e.g., cable box, DVD player) from the location of the receiver.

1. Ensure the IR cables are connected as described in the Setup Guide (IR OUT on TX, IR IN on RX).
2. Point your source device's remote control at the IR receiver connected to the RX unit.
3. The signal will be transmitted back to the IR emitter connected to the TX unit, allowing you to control your source device remotely.

Image: A visual representation of the IR remote control setup, showing how the remote signal is relayed from the receiver to the source device via the IR cables.

5.4 Multi-Receiver Setup (1 TX to 4 RXs)

This system supports connecting one Transmitter (TX) to up to four Receivers (RXs) simultaneously. Additional RX units are sold separately (ASIN: B09XQRCDQK).

- To add more receivers, simply power on and connect each additional RX unit to its respective display. The TX unit will automatically detect and connect to them.
- Note the following approximate transmission distances based on the number of receivers (line of sight, unobstructed):
    - 1 TX to 1 RX: 820 FT / 250 m
    - 1 TX to 2 RX: 755 FT / 230 m
    - 1 TX to 3 RX: 689 FT / 210 m
    - 1 TX to 4 RX: 623 FT / 190 m

Image: A diagram illustrating the capability of one transmitter to connect to multiple receivers, showing the varying transmission distances based on the number of connected receivers.

6. Product Specifications

Feature	Specification
Model Number	WL009-FFF
Product Dimensions	7.8 x 2.2 x 6 inches
Item Weight	1.27 pounds

Connectivity Technology	Wi-Fi (2.4/5.8GHz)
Max Transmission Distance	820 feet (250 meters) in open field (1 TX to 1 RX)
Supported Resolution	Up to 1080p @60Hz
Latency	0.06 seconds
Total HDMI Ports	3 (1x HD IN, 1x LOOP OUT on TX; 1x HD OUT on RX)
Audio Output Mode	Stereo
Surround Sound Channel Configuration	4.0
Video Encoding	H.263
Compatible Devices	Projector, Laptop, Monitor, Television, Personal Computer
Manufacturer	Vrriis
Country of Origin	China

7. Maintenance

To ensure the longevity and optimal performance of your Vrriis Wireless HDMI Extender, please follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the units. Do not use liquid cleaners or aerosol sprays, as they may damage the device.
- **Ventilation:** Ensure the units are placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Storage:** When not in use for extended periods, disconnect the power adapters and store the units in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Avoid bending or kinking the HDMI and power cables excessively to prevent internal damage.
- **Antennas:** Handle the antennas with care. While sturdy, excessive force can cause damage.

8. Troubleshooting

If you encounter issues with your Vrriis Wireless HDMI Extender, please refer to the following common problems and solutions:

8.1 No Signal / "Searching TX..." on Receiver Screen

- **Power Check:** Ensure both the Transmitter (TX) and Receiver (RX) units are properly connected to power and

turned on. Check that the power indicator LED is illuminated on both units.

- **HDMI Connections:** Verify that all HDMI cables are securely connected to the correct ports on both the source device, TX unit, RX unit, and display.
- **Transmission Distance & Obstacles:** Check if the transmission distance exceeds the device's maximum range (820ft/250m for 1 TX to 1 RX). Walls, bricks, or glass can significantly reduce signal strength. Try reducing the distance or relocating the units to minimize obstructions.
- **Signal Strength:** Observe the signal strength indication on the receiver (if available). Try to enhance the installation and placement of wireless devices to ensure optimal signal reception.
- **Source Resolution:** Ensure your source device's output resolution is compatible (up to 1080p @60Hz). Some devices may need their resolution adjusted manually.

8.2 IR Remote Control Not Responding

- **IR Cable Orientation:** Ensure the IR emitter cable connected to the TX unit is positioned directly in front of the IR sensor of your source device. Similarly, ensure the IR receiver cable connected to the RX unit is facing your remote control. Make sure the logo on the IR head is correctly oriented.
- **IR Frequency:** Verify that the IR frequency of your remote control is within the controllable range of 20KHz-60KHz supported by the extender.
- **Remote Batteries:** Check the batteries in your remote control.

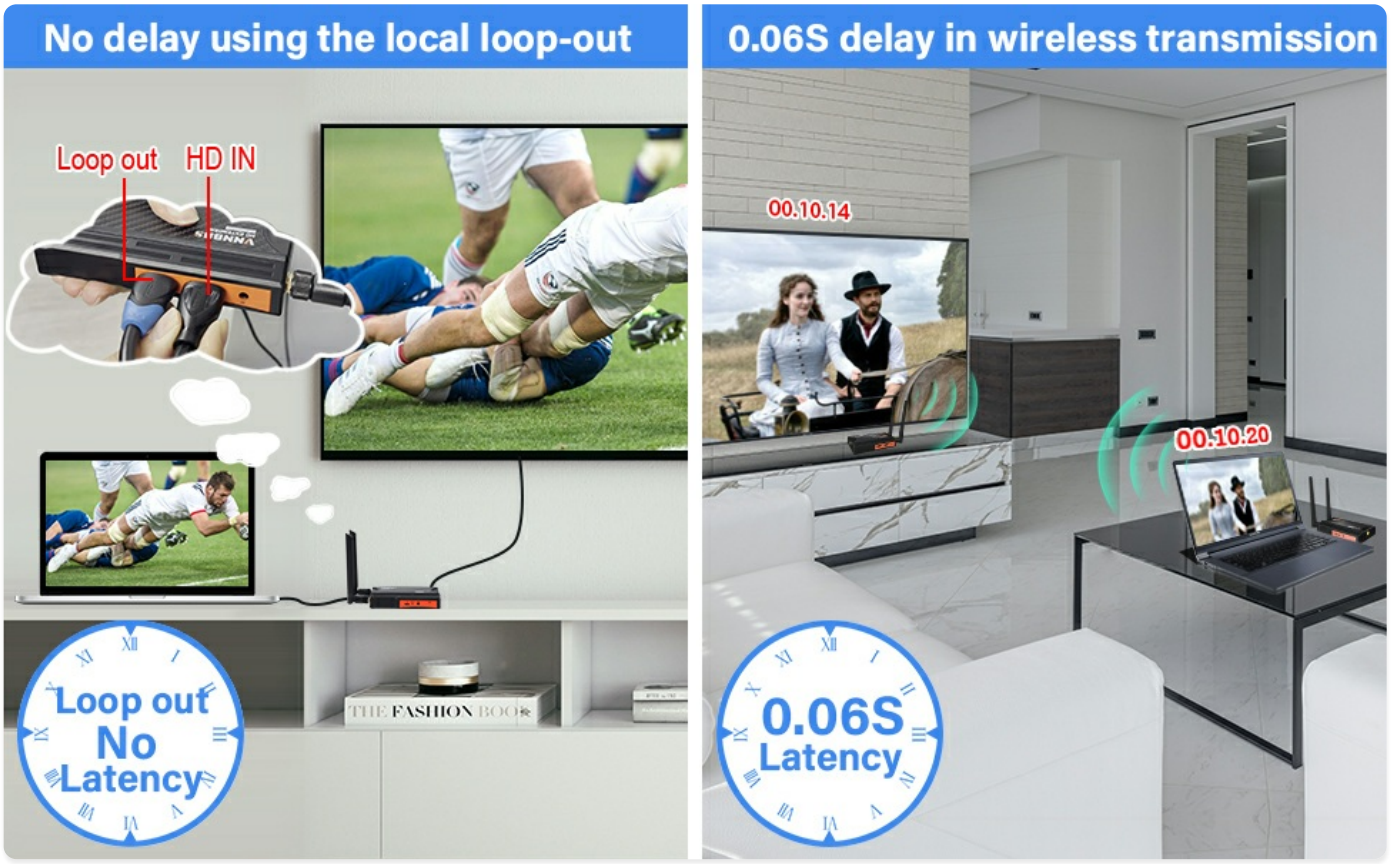

Image: A visual guide to common troubleshooting questions, including signal loss and IR remote issues, with suggested solutions.

8.3 Picture Quality Issues (Pixelation, Choppiness)

- **Interference:** Other wireless devices (Wi-Fi routers, cordless phones) operating on similar frequencies (2.4GHz or 5.8GHz) can cause interference. Try changing the channel on your Wi-Fi router or relocating the extender units away from other wireless devices.
- **Signal Strength:** Weak signal due to distance or obstacles can lead to poor picture quality. Refer to "No Signal" troubleshooting steps.

- **HDMI Cable Quality:** Ensure you are using high-quality HDMI cables. Faulty or low-quality cables can degrade signal integrity.

9. Warranty and Customer Support

Vrriis products are backed by a **1-year limited warranty** from the date of purchase.
If you have any questions, concerns, or require technical assistance, please do not hesitate to contact Vrriis customer support. You can typically find contact information by clicking on the "Vrriis" brand name in the product listing and selecting "Ask a Question".
Please have your product model number (WL009-FFF) and purchase details ready when contacting support.