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OREI WUHD-150-K

OREI WUHD-150-K 4K60Hz Wireless HDMI Extender User Manual

Model: WUHD-150-K

Introduction | Package Contents | Product Overview | Setup | Operating Instructions | Troubleshooting | Specifications | Warranty & Support

1. Introduction

The OREI WUHD-150-K is a 4K60Hz Wireless HDMI Extender kit designed to transmit Ultra HD video and audio signals wirelessly up to 165 feet (50 meters) with a clear line of sight. This system operates on the 5GHz band, providing reliable transmission with low latency, making it suitable for various applications including home theater, presentations, and video conferencing. It supports HDMI 2.0 and HDCP 2.2 standards, ensuring compatibility with modern display devices and content.

Key features include an HDMI loop-out port on the transmitter for local monitoring, SSID pairing, channel switching, and one-way IR control for convenient device management.



Image: The OREI Wireless HDMI Extender is compatible with various HDMI devices such as laptops, gaming consoles, media players, and projectors.

2. Package Contents

Please verify that all items listed below are included in your package:

- 1x Wireless HDMI Transmitter (TX)
- 1x Wireless HDMI Receiver (RX)
- 2x Power Adapters (DC 5V)
- 2x IR Cables (1x IR Blaster, 1x IR Receiver)
- 1x User Manual (this document)

Note: HDMI cables are not included and must be purchased separately.





Image: The OREI WUHD-150-K kit includes a transmitter, receiver, power adapters, IR cables, and a user manual.

3. Product Overview

The OREI WUHD-150-K consists of two main units: a Transmitter (TX) and a Receiver (RX). Both units are compact and designed for easy integration into your existing setup.

3.1. Transmitter (TX) Unit

The Transmitter unit connects to your HDMI source device (e.g., laptop, gaming console, Blu-ray player).

- **HDMI IN:** Connects to the HDMI output of your source device.
- **HDMI OUT (Loop-Out):** Allows you to connect a local display (e.g., TV, monitor) to view the source content simultaneously.
- **IR OUT:** Connects to the IR Blaster cable to control the source device from the receiver location.
- **DC 5V:** Power input port.
- **Antenna Ports:** For connecting the wireless antennas.
- **Upgrade Port:** For firmware updates.

3.2. Receiver (RX) Unit

The Receiver unit connects to your display device (e.g., TV, projector) where you want to view the extended content.

- **HDMI OUT:** Connects to the HDMI input of your display device.
- **IR IN:** Connects to the IR Receiver cable to receive IR signals from your remote control.
- **DC 5V:** Power input port.
- **Antenna Ports:** For connecting the wireless antennas.
- **Upgrade Port:** For firmware updates.

WUHD-150-K
TECHNICAL SPECIFICATIONS



WARRANTY

Lifetime OREI Tech Support &
12-Month Manufacturer's Warranty

Tx → Rx

Image: Detailed view of the OREI WUHD-150-K Transmitter and Receiver units, highlighting their various input and output ports.



FEATURES

- 4K@60Hz
- HDMI 2.0 & HDCP1.1/2.2 Compliant
- SSID Pairing & Channel Switching
- 5G Wireless Frequency Bands
- One-way IR Control from Receiver to Transmitter.

Image: Technical specifications and compact dimensions of the OREI WUHD-150-K units.

4. Setup Guide

The OREI WUHD-150-K is designed for plug-and-play operation, requiring no software or drivers. Follow these steps for a quick setup:

1. **Connect Antennas:** Screw the provided antennas firmly onto the antenna ports of both the Transmitter (TX) and Receiver (RX) units. Ensure they are oriented for optimal signal reception.
2. **Connect Transmitter (TX):**
    - Connect an HDMI cable from your source device (e.g., laptop, cable box) to the **HDMI IN** port on the TX unit.
    - (Optional) If you wish to use a local display, connect another HDMI cable from the **HDMI OUT (Loop-Out)** port on the TX unit to your local display.
    - Connect the IR Blaster cable to the **IR OUT** port on the TX unit. Position the IR Blaster head near the IR sensor of your source device.
    - Connect one of the DC 5V power adapters to the **DC 5V** port on the TX unit and plug it into a power outlet.
3. **Connect Receiver (RX):**
    - Connect an HDMI cable from the **HDMI OUT** port on the RX unit to the HDMI input of your remote display device (e.g., projector, TV).
    - Connect the IR Receiver cable to the **IR IN** port on the RX unit. Position the IR Receiver head in a location where it can easily receive signals from your remote control.
    - Connect the second DC 5V power adapter to the **DC 5V** port on the RX unit and plug it into a power outlet.
4. **Power On:** Ensure both the TX and RX units are powered on. The units will automatically attempt to pair and establish a wireless connection.
5. **Verify Connection:** Once connected, the video and audio from your source device should appear on your remote display.



Image: The OREI Wireless HDMI Extender features a simple plug-and-play setup, requiring no software or drivers.





Image: Diagram illustrating the wireless connection between the transmitter (TX) and receiver (RX) units, extending the signal up to 150 feet.

Your browser does not support the video tag.

Video: An official OREI video demonstrating the setup and usage of the 4K Wireless HDMI Extender, showing how to connect the transmitter and receiver units to source and display devices.

5. Operating Instructions

5.1. Wireless Connection

The extender automatically establishes a wireless connection between the TX and RX units upon power-up. It utilizes the 5GHz frequency band for stable and low-latency transmission. For optimal performance, ensure a clear line of sight between the transmitter and receiver, and minimize obstructions.

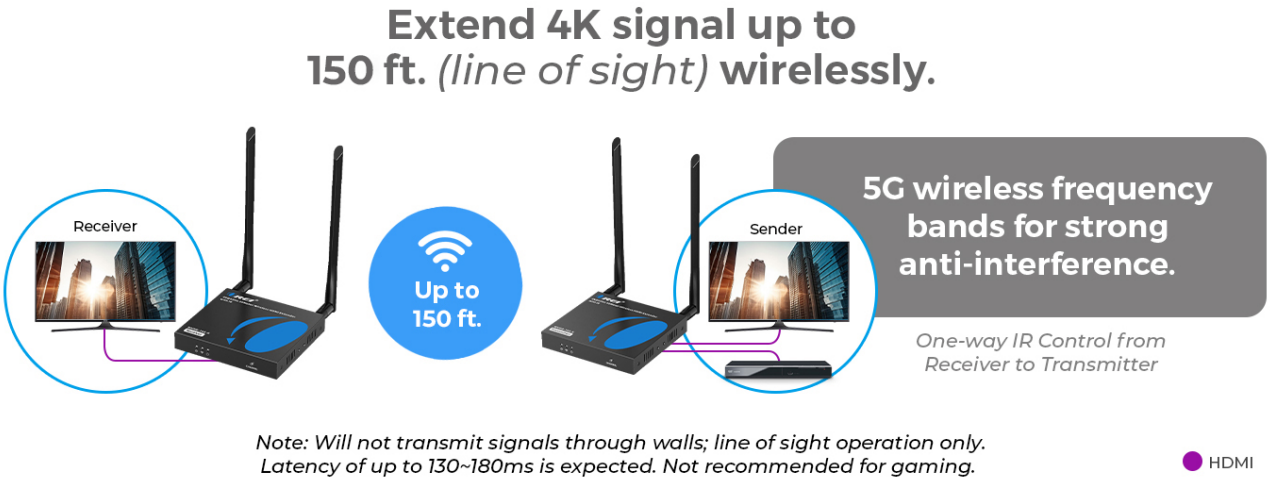


Image: Illustration of the point-to-point wireless connection between a laptop (input) and a monitor (output) using the OREI extender.

5.2. HDMI Loop-Out

The Transmitter unit features an HDMI Loop-Out port. This allows you to connect a local display (e.g., a TV in the same room as your source device) to view the content simultaneously while it is being wirelessly transmitted to the remote

receiver. This is useful for monitoring the source or for dual-display setups.

5.3. IR Control

The system supports one-way IR control, enabling you to control your source device (e.g., DVD player, cable box) from the remote display location using its original remote control. The IR Receiver on the RX unit captures the remote's signal and transmits it wirelessly to the IR Blaster on the TX unit, which then relays the command to your source device.



Image: Diagram showing the 5GHz wireless frequency bands and the IR control functionality, allowing control of the source device from up to 150 feet away.

5.4. SSID Pairing & Channel Switching

The extender utilizes SSID pairing for secure and direct connection. In environments with multiple wireless devices, the channel switching feature allows you to select an optimal channel to minimize interference and ensure stable transmission.

6. Maintenance

- Keep the devices in a cool, dry place, away from direct sunlight, high temperatures, and humidity.
- Clean the units with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Ensure proper ventilation around the units to prevent overheating.
- Avoid dropping or subjecting the units to strong impacts.
- Do not attempt to disassemble or modify the units, as this will void the warranty.

7. Troubleshooting

If you encounter issues with your OREI WUHD-150-K, please refer to the following common solutions:

7.1. No Video/Audio Output

- **Check Power:** Ensure both the TX and RX units are properly powered on and their power indicators are lit.

- **HDMI Connections:** Verify all HDMI cables are securely connected to the correct ports on both the source, extender units, and display.
- **Source/Display Settings:** Confirm your source device is outputting a signal and your display is set to the correct HDMI input.
- **Resolution Compatibility:** Ensure your display supports the resolution output by your source device. The extender supports up to 4K@60Hz.

7.2. Intermittent Signal or Poor Quality

- **Line of Sight:** The extender performs best with a clear line of sight between the TX and RX units. Walls, furniture, and other obstructions can degrade signal quality.
- **Distance:** Ensure the distance between the TX and RX units does not exceed the maximum recommended range of 165 feet (50 meters) in line of sight.
- **Interference:** Other 5GHz wireless devices (e.g., Wi-Fi routers, cordless phones) can cause interference. Try repositioning the extender units or other wireless devices, or use the channel switching feature if available.
- **Antenna Orientation:** Ensure antennas are securely attached and oriented for optimal signal.

7.3. IR Control Not Working

- **IR Cable Placement:** Ensure the IR Blaster head on the TX unit is directly aligned with the IR sensor of your source device. Similarly, ensure the IR Receiver head on the RX unit is positioned to receive signals from your remote control.
- **Battery Check:** Verify the batteries in your remote control are functional.

7.4. Latency Issues (Especially for Gaming)

While the OREI WUHD-150-K offers low latency, it is not a zero-latency device. A minor delay (typically 130-180ms) is inherent in wireless transmission. This latency may be noticeable in fast-paced gaming scenarios. For critical gaming applications, a direct wired HDMI connection is generally recommended.

8. Specifications

Feature	Detail
Brand	OREI
Model Name	WUHD-150-K
Connectivity Technology	Wi-Fi
Wireless Communication Standard	802.11ac (Wi-Fi 5)
Frequency Band Class	Single-Band (5 GHz)
Video Resolution	Up to 4K@60Hz
HDMI Standard	HDMI 2.0
HDCP Compliance	HDCP 2.2
Data Transfer Rate	18Gbps

Wireless Range	Up to 165 feet (50 meters) line of sight
Latency	Low Latency (approx. 130-180ms)
Features	HDMI Loop-Out, One-Way IR Control, SSID Pairing, Channel Switching, HDR Support, 3D Support
Compatible Devices	Laptop, Personal Computer, Projector, TV, Gaming Consoles, Media Players
Item Weight	900 g (approx. 1.98 lbs)
Power Supply	DC 5V

9. Warranty and Support

OREI products are backed by a **12-Month Manufacturer's Warranty**, ensuring your peace of mind. In addition, OREI provides **Lifetime Technical Support** for all its products. If you encounter any issues or have questions regarding your WUHD-150-K Wireless HDMI Extender, please contact OREI customer support.
For further assistance, please visit the official OREI website or contact their support team directly. Details can typically be found on the product packaging or the OREI brand store.

Image: Information highlighting OREI's 15 years of AV expertise, extensive product range, and commitment to free lifetime technical support.

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