备注

H24099（ORE01）说明书： 0106020140184

材质：100克书纸
尺寸：111x146mm
装订方式：骑马钉

Wireless HDMI Extender
4K@30Hz with IR up to 50M

WUHD3-165-K

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4K@30Hz with IR up to 50M

USER MANUAL

WUHD3-165-K

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Thank you for purchasing this product

For optimum performance and safety, please read these instructions care-fully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Registration page

Please Activate your warranty by registering your product through the link below - **www.orei.com/register**

Technical Support

Need Help?

Our experienced Technical Support Team is here for you to answer your questions, give technical advice or help troubleshoot your project to get you installed on time and on budget. Call, email or chat with us now.

OREI Live Technical Support Hours

US team (US/Canada/Mexico): Monday-Friday, 9 a.m. - 5 p.m. Central Time

Support Email - info@orei.com |**Support Number** - 877-290-5530

Or

Chat Live on www.orei.com

Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

Introduction

The WUHD3-165-K is a 4K@30Hz HDMI wireless extender, including a transmitter and a receiver. Adopting ipcolor STREAM technology can realize high definition and low-latency transmission. Based on the 5G wireless frequency band, with stable anti-interference and safety performance. It supports up to 1-to-4 wireless transmission, and the transmission distance of 1-to-1 can reach 50meters, effectively solving problems caused by complicated wiring. It's an ideal wireless video transmission solution for video conferences, home entertainment, multimedia education, etc.

Features & Package Contents

1. Adopting ipcolor STREAM technology can realize high definition and low-latency transmission.
2. Support up to 4096x2160@30Hz resolution, backward compatible.
3. It supports up to 1-to-4 wireless transmission, and the transmission distance up to 50 meters (line of sight, 1-to-1).
4. The transmitter supports HDMI loop out.
5. In case of multiple sets of products in the same area, support SSID pairing and channel switching to avoid interference.
6. Support IR passback.
7. Support 5G wireless frequency bands, strong anti-interference.
8. Support firmware upgrade via Micro USB port.
9. Supports stable 24/7 operation.

Package Contents

1.	WUHD3-165-K Transmitter	1 pcs
2.	WUHD3-165-K Receiver	1 pcs
3.	IR Blaster Cable	1 pcs
4.	IR Receiver Cable	1 pcs
5.	Antenna	4 pcs
6.	Mounting Ear	4 pcs
7.	Screw	10 pcs
8.	Grounding Screw	2 pcs
9.	Power Adapter	2 pcs
10.	User Manual	1 pcs

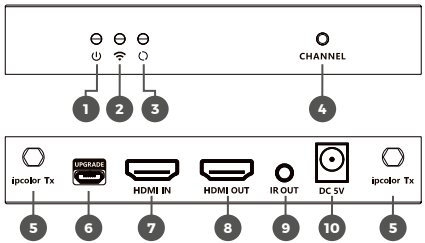
Specifications

Items		Specifications
Power Supply	Voltage/Current	DC 5V/2A
	Power consumption	TX ≤ 5W, RX ≤ 4W
HDMI Performance and Interface	HDMI version	HDMI 1.4
	HDCP version	HDCP 1.4
	Maximum transfer rate	10.2Gbps
	Resolution supported	4096x2160@24/30Hz, 3840x2160@24/30Hz, 1080P@50/60Hz, 720P@50/60Hz, 1920x1200
	Input and output TMDS signal	0.7~1.2Vp-p（TMDS）
	Input and output DDC signal	5Vp-p（TTL）
Transmission	Wi-Fi Frequency bands	5.18~5.24 GHz
	Transmission distance	One-to-one ≤ 50m; One-to-two ≤ 30m; One-to-three ≤ 20m; One-to-four ≤ 15m
	Latency	4K@30Hz: 130~220ms 1080P@60Hz: 70~120ms For reference only, delays may vary depending on the resolution, transmission distance, and connection capacity
	Connection types	One-to-one One-to-two One-to-three One-to-four
	SSID pairing	Supported

Specifications

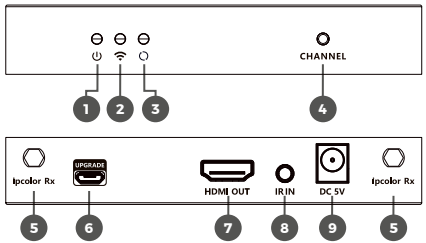
Protection Level	ESD protection	1a Contact discharge level 3 1b Air discharge level 3 Standard: IEC61000-4-2
		Lightning protection, Surge protection
IR Performance	Infrared frequency	20~60kHz
	Receiving range	≤ 5m
Operating Environment	Working temperature	-20~60℃
	Storage temperature	-30~70℃
	Humidity (no condensation)	0~90% RH
Physical Properties	Dimension	TX: 115(W) x 125(L) x 20.6(H) mm RX: 115(W) x 125(L) x 20.6(H) mm
	Color	Black
	Material	Iron
	Net weight	TX: 305g; RX: 303g

Operation controls and functions



No.	Name	Function
1	Power Indicator	The indicator will light up blue when active power is received
2	Wi-Fi Indicator	a) Slow flash: Waiting for connection b) Steady: Connection successful c) Quick flash: SSID Pairing mode
3	Signal Indicator	a) Light off: No HDMI signal b) Steady: HDMI signal transmitting normally c) Quick flash: Restore factory settings
4	Channel Switch Button	a) Press to switch channels b) Press and hold for 5s for SSID pairing c) Press and hold for 10s to restore to factory settings
5	Antenna Connectors	Connect the included antennas
6	Micro-USB port	Used for firmware upgrade
7	HDMI Input	Connect a media source device such as a Blu-ray player, set-top box, etc.
8	HDMI Output	Connect a display device such as a monitor, TV, etc.
9	IR Out	Connect the included IR Blaster cable
10	Power Input	Connect the included power adapter

Operation controls and functions

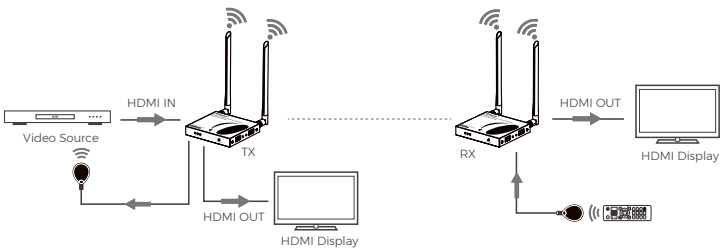


No.	Name	Function
1	Power Indicator	The indicator will light up blue when active power is received
2	Wi-Fi Indicator	a) Slow flash: Waiting for connection b) Steady: Connection successful c) Quick flash: SSID Pairing mode
3	Signal Indicator	a) Light off: No HDMI signal b) Steady: HDMI signal transmitting normally c) Quick flash: Restore factory settings
4	Channel Switch Button	a) After connecting with the Transmitter, press to switch channels b) Press and hold for 5s for SSID pairing c) Press and hold for 10s to restore to factory settings
5	Antenna Connectors	Connect the included antennas
6	Micro-USB port	Used for firmware upgrade
7	HDMI Output	Connect a display device such as a monitor, TV, etc.
8	IR in	Connect the included IR Receiver cable
9	Power Input	Connect the included power adapter

Application Example

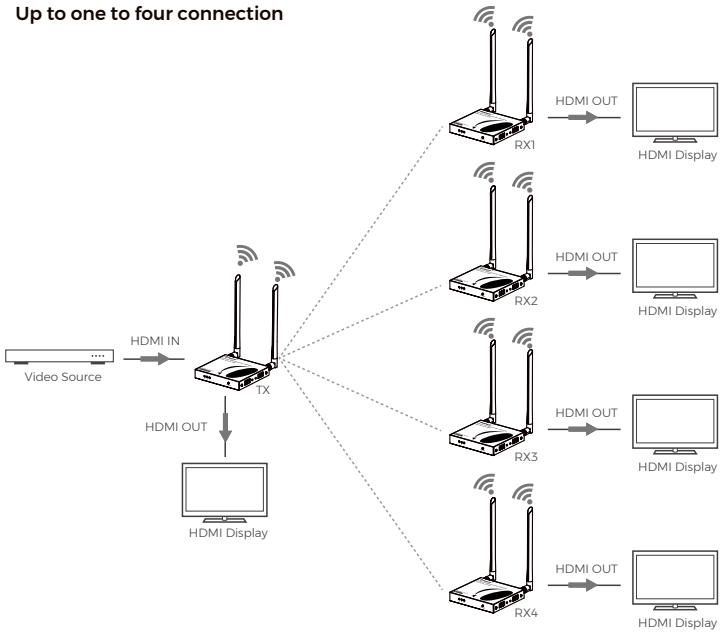
Description

One to one connection



Application Example

Up to one to four connection



Application Example

Connection Instructions

1. Connect the source device to the HDMI IN port on the Transmitter and connect yourlocal display to the HDMI OUT port.
2. Connect the IR Blaster cable to the IR OUT port on the Transmitter and place the blaster near the IR window on the source device.
3. Connect a display at the secondary location to the HDMI OUT on the Receiver and the IR Receiver cable to the IR IN.
4. Plug in the included power adapters on both ends to start the devices.
5. SSID Pairing
   A. Enter the SSID pairing mode by holding the Transmitter and Receiver's Channel switch buttons for five seconds. Both Wi-Fi connection indicators will flash quickly in yellow.
   B. When the SSID pairing is successful, the Wi-Fi indicators on the transmitter and receiver will change from quick flashing to slow flashing or steady on.

Note: In case of multiple sets of the WUHD3-165-K being used at the same time in the same area, to prevent mutual interference, switch each set of Transmitters and Receivers to a different channel after they have been manually paired with the SSID.

Application Example

NO.	Frequency
Channel 1	5.180 GHz
Channel 2	5.200 GHz
Channel 3	5.220 GHz
Channel 4	5.240 GHz