

HDMI over Wireless Extender

User Manual

VER:2.0

Thank you for purchasing this product

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

Surge protection device recommended

This product contains sensitive electrical 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.

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1. Introduction

The HDMI over wireless kit extends high-definition video and audio to any HDTV displays up to 50 meters away. It supports up to 4 displays to show one source content synchronously and resolutions up to 1080p.

The extender transmits the vivid real time video and audio signals with very low latency, allowing user to view the content in other rooms of the house, such as bedroom, living room, or kitchen. It also allows user to control source device from display side via source device's remote controller.

2. Features

- ◇ Digital 2.4G & 5GHz dual frequency wireless A/V transmission
- ◇ HDMI 1.4b (4.95Gbps), HDCP 1.4 and DVI compliant
- ◇ Full HD 1080p transmits up to 50 meters wirelessly in open space
- ◇ Supports Point-to-Point and Multicast transmission (up to 4 receivers)
- ◇ Extends infrared remote to control source device from display side
- ◇ USB HID transmission from display to source
- ◇ Simple Plug and Play, no software installation required

3. Package Contents

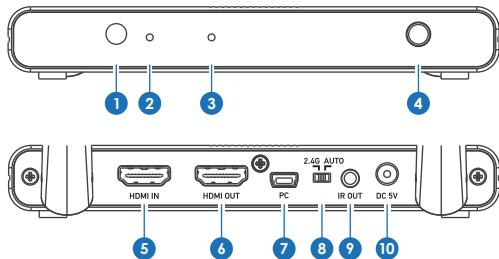
- ◇ 1 x HDMI over Wireless Transmitter
- ◇ 1 x HDMI over Wireless Receiver
- ◇ 1 x Wideband IR Blaster cable
- ◇ 1 x Wideband IR Receiver cable
- ◇ 2 x 5V/1A Power Adaptor
- ◇ 1 x User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 1.4b
HDCP Compliance	HDCP 1.4
Video Bandwidth	4.95 Gbps
Video Resolutions	up to 1080P@50/60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	8-bit
HDMI Audio Formats	LPCM 2CH
Wireless Standard	802.11a/b/g/n
Modulation Method	BPSK/QPSK/16-QAM/64-QAM
Wireless Band	2.4GHz, 5GHz ISM Band
Operation Range	Up to 50 meters in open space
IR Frequency	20KHz - 60KHz
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connections	
Transmitter	Inputs: 1x HDMI Type A [19-pin female] Outputs: 1x HDMI Type A [19-pin female] 1x USB [Mini USB Type] 1x IR Out [3.5mm Stereo Mini-jack]
Receiver	Inputs: 2x USB [USB Type A] 1x IR In [3.5mm Stereo Mini-jack] Outputs: 1x HDMI Type A [19-pin female]
Mechanical	
Housing	Aluminum Enclosure
Color	Black
Dimensions	142mm [W] x 80mm [D] x 19mm [H]
Weight	TX: 270g RX: 260g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	3W (Max)
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

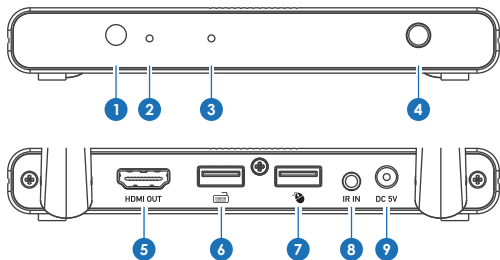
5. Operation Controls and Functions

5.1 Transmitter Panel



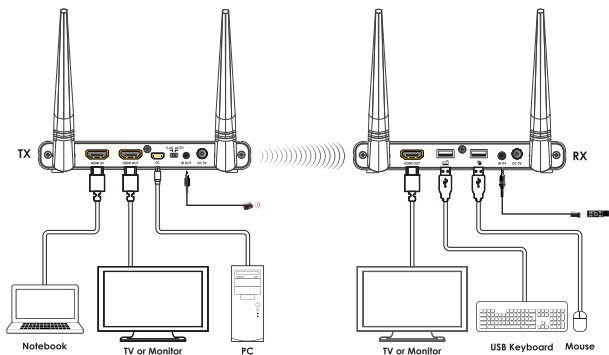
- 1 IR Emitter:** IR emitter window.
- 2 Power LED:** System power indicator LED.
- 3 Link LED:** Link status indicator LED, it will be always on when there is a receiver is linked or flickering when no receiver is linked.
- 4 Pair:** Press this button to pair with receiver at first time. Once established connection, transmitter and receiver will auto pair each other at next time power on.
- 5 HDMI In:** Connect to a HDMI source device.
- 6 HDMI Out:** Connect to a HDMI display device.
- 7 PC:** USB device port, connecting to a PC/laptop USB port.
- 8 2.4G/AUTO:** Set wireless frequency to fixed 2.4G or auto (means automatically decide 2.4G or 5G according to current WIFI condition)
- 9 IR Out:** Connect to an IR emitter cable and put IR emitter header close to source device's IR receiver window.
- 10 DC 5V:** Connect 5V/1A adaptor for power supply.

5.2 Receiver Panel



- 1 IR Receiver:** IR receiver window.
- 2 Power LED:** System power indicator LED.
- 3 Link LED:** Link status indicator LED, it will be always on when there is a transmitter is linked or flickering when no transmitter is linked.
- 4 Pair:** Press this button to pair with transmitter. Once established connection, receiver and transmitter will auto pair each other at next time power on.
- 5 HDMI Out:** Connect to an HDMI display device.
- 6 USB Keyboard:** Connect to an USB keyboard.
- 7 USB Mouse:** Connect to an USB mouse.
- 8 IR In:** Connect to an IR receiver cable and put IR receiver header close to display device's IR receiver window.
- 9 DC 5V:** Connect 5V/1A adaptor for power supply.

6. Connection Diagram



7. Troubleshooting

7.1 Link LED always be flickering

It means the transmitter and the receiver didn't be paired before, you should press the pair button on the front of the transmitter and the receiver to let them start to pair. They will auto pair at next power up once they have paired once successfully.

7.2 Receiver OSD display “Scanning”

It means the receiver didn't find the transmitter. Please check transmitter Power and Link LED status, if Link LED is flickering, please power the transmitter again then press the pair button on the front panel of the transmitter.

7.3 No video after receiver OSD display “connected”

Please connect your HDMI source device to display device directly and check if it's related with your HDMI cable.

7.4 Video is paused or mosaic or noise sometimes

It's related with your WIFI condition or the distance from transmitter to receiver exceeds 50 meters or too many brick walls were blocked. Please place transmitter and receiver closely if possible.

7.5 USB mouse or keyboard doesn't work

Please check your mini-USB to USB-A cable is connected between the transmitter and PC/laptop. Also you should check if PC/laptop completes your USB mouse or keyboard's driver installation.

Note: USB function is only working after the transmitter and receiver are paired and display video.

7.6 IR function doesn't work

This product only supports one-way IR from receiver to transmitter.

Please check if you connect correct IR cable to the transmitter and receiver.

Note: IR function is only working after the transmitter and receiver are paired and display video.

Note: some consumer devices use 2.4G remote control. We don't support this kind of remote control.

7.7 How to switch 2.4G/AUTO mode

There is a switch to select 2.4G or AUTO mode on the rear panel of transmitter.

Switching wireless mode need a power reset operation on the transmitter.

2.4G mode: wireless frequency is fixed to 2.4G band.

AUTO mode: wireless frequency is decided automatically according to WIFI condition. 5G is the first priority for best video quality.

7.8 How to setup 1TX to 4RX

Firstly you should have one TX and one RX working normally, then place the second RX and press pair button on this RX and the TX to let the second RX be added into network, the third and the fourth RX has the same operation with the second RX. Finally you can get 1TX and 4RX working together.