

HDMI Wireless Extender with One-way IR (100M)



User Manual

VER 1.0

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, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction.....1
2. Features.....1
3. Package Contents.....1
4. Specifications.....2
5. Operation Controls and Functions.....3
 5.1 Encoder Panel.....3
 5.2 Decoder Panel.....4
 5.3 Pairing Instruction.....5
 5.4 IR Pin Definition.....5
6. Application Example.....7

1. Introduction

This product is based on H.265 standard solution for transmitting one HD source signal to one HD display. It extends distance up to 330ft/100 meters (In an open environment without Wi-Fi interference) between the encoder and decoder via wireless transmission. It supports one-way IR control. It offers high quality configurable and low-bandwidth H.265 compression video. Input video resolution is up to 1920×1080@60Hz; Output video resolution is up to 1080P@60Hz. This wireless extender is designed special to transmit high definition video & audio within one environment.

2. Features

- ☆ HDMI 1.3, HDCP 1.4 and DVI 1.0 compliant
- ☆ Transmit one HDMI HD source signal to one HDMI HD display via wireless technology
- ☆ With one-way IR control
- ☆ Input video resolution is up to 1920×1080@60Hz YCbCr 4:4:4; Output video resolution is up to 1080P@60Hz YCbCr 4:4:4
- ☆ HDMI wireless transmission distance up to 330ft/100m. (In an open environment without Wi-Fi interference.)
- ☆ Supported HDMI audio formats:
Input: LPCM 2.0CH 32KHz/44.1KHz/48KHz/88.2KHz/96KHz/176.4KHz/192KHz
Output: LPCM 2.0CH 48KHz
- ☆ Adopt H.265 high performance codec technology
- ☆ End-to-end delay is less than 120Ms
- ☆ Compact design for easy and flexible installation.

3. Package Contents

Qty	Item
1	HDMI Wireless Extender (Encoder)
1	HDMI Wireless Extender (Decoder)
1	IR Blaster cable (1.5 meters)
1	20~60KHz IR Receiver cable (1.5 meters)
4	5G WiFi Antenna
2	5V/2A Multi-country Power Supply
1	User Manual

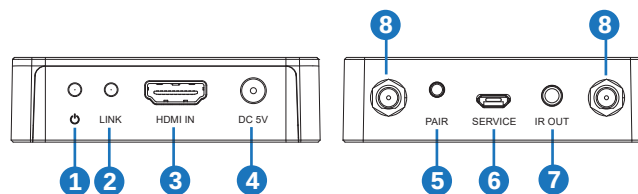
4. Specifications

Technical	
HDMI Compliance	HDMI 1.3
HDCP Compliance	HDCP 1.4
Video Bandwidth	6.75Gbps
Video Resolution	Input: Up to 1920×1080@60Hz Output: Up to 1080P@60Hz
Color Space	RGB, YCbCr 4:4:4 / 4:2:2
Color Depth	8/10/12-bit (1080P@60Hz)
HDMI Audio Formats	Input: LPCM 2.0CH 32KHz/44.1KHz/48KHz/ 88.2KHz/96KHz/176.4KHz/192KHz Output: LPCM 2.0CH 48KHz
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Encoder	Inputs: 1x HDMI IN [Type A, 19-pin female] Outputs: 1x IR OUT [3.5mm Stereo Mini-jack] 2x WiFi OUT [WiFi antenna] Control: 1x SERVICE [Micro USB, Update port]
Decoder	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] 2x WiFi IN [WiFi antenna] Outputs: 1x HDMI OUT [Type A, 19-pin female] Control: 1x SERVICE [Micro USB, Update port]
Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	Encoder / Decoder: 76mm [W] x 98mm [D] x 21mm [H]
Weight	Encoder / Decoder: 100g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/2A
Power Consumption	Encoder: 5.6W, Decoder: 2.65W (Max)
Operating Temperature	32 - 104°F / 0 - 40°C

Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)
Resolution / Cable Length	1080P60Hz - Feet / Meters
HDMI IN / OUT	42ft / 15M
The use of "Premium High Speed HDMI" cable is highly recommended.	

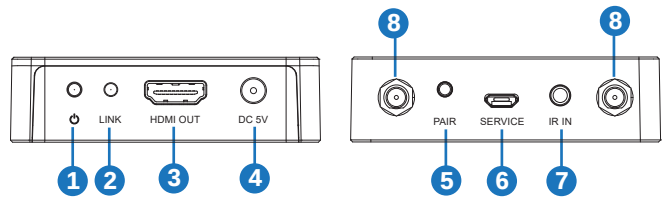
5. Operation Controls and Functions

5.1 Encoder Panel



No.	Name	Function Description
1	Power LED	The LED will illuminate red when the encoder is powered on.
2	LINK LED (Green)	The LINK LED flashing means that the encoder and decoder are paired successfully. (Please refer to "5.3 Pairing Instruction" for details)
3	HDMI IN	HDMI source input port for connecting the HDMI source device.
4	DC 5V	Connect the DC 5V/2A power adapter.
5	PAIR button	Press and hold the PAIR button, then power on the encoder, the device will enter the upgrade mode.
6	SERVICE port	Firmware update port.
7	IR OUT	Connect the IR blaster cable. The IR blaster signal is from the IR IN port on the Decoder.
8	Antenna port	Connect the WiFi antenna.

5.2 Decoder Panel



No.	Name	Function Description
1	Power LED	The LED will illuminate red when the decoder is powered on.
2	LINK LED (Green)	The LINK LED flashing means that the encoder and decoder are transmitting video signals. (Please refer to "5.3 Pairing Instruction" for details)
3	HDMI OUT	HDMI output port for connecting the HDMI display device.
4	DC 5V	Connect the DC 5V/1A power adapter.
5	PAIR button	Press and hold the PAIR button, then power on the decoder, the device will enter the upgrade mode.
6	SERVICE port	Firmware update port.
7	IR IN	Connect the IR receiver cable. The IR signal is sent to the IR OUT port on the encoder.
8	Antenna port	Connect the WiFi antenna.

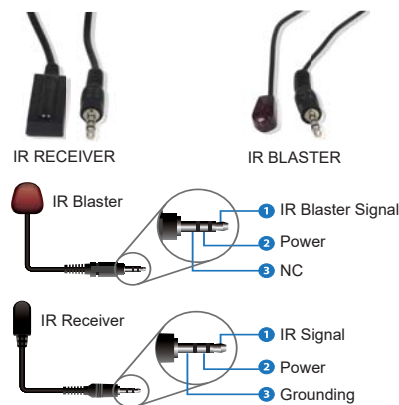
5.3 Pairing Instruction

Connect the encoder and decoder with an HDMI cable. Power on the decoder firstly, then power on the encoder after the power LED and LINK LED of the decoder are always on. After successful pairing, the LINK LED of the decoder will flash. If the LINK LED of encoder is always on, it indicates that the encoder and decoder has not been connected or paired. When there is video signal transmission, the LINK LED of decoder will flash; When there is no video signal transmission, the LINK LED of decoder will be always on.

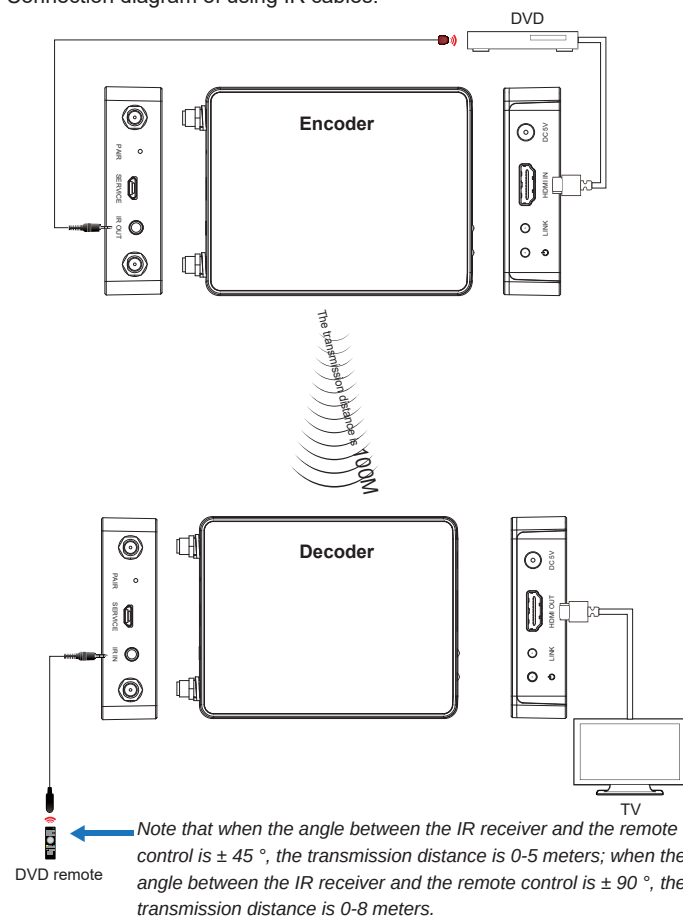
Encoder's LINK LED status (Green)	Decoder's LINK LED status (Green)	Description
Always on	Always on	The encoder and decoder are not paired or connected.
Flash	Always on	Successful pairing.
Flash	Flash	The encoder and decoder are paired successfully, and there is video signal transmission.

5.4 IR Pin Definition

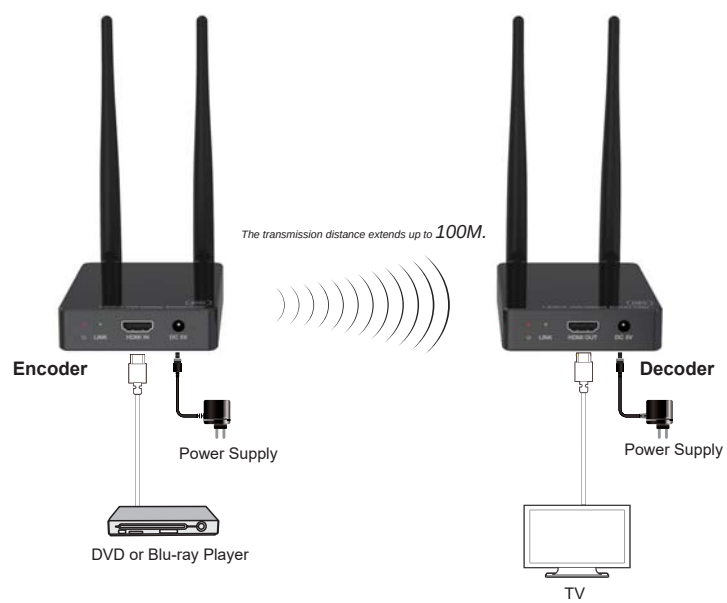
IR Receiver and Blaster pin's definition is as below:



Connection diagram of using IR cables.



6. Application Example



Warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter