

# HDMI Extender over Cat5e/Cat6 (HD BaseT)



**User manual**

## **I. Introduction**

Extend UHD4k HDMI signals to a display 40m away or 1080p signals up to 70m from a HDMI source. This extender converts standard HDMI signals to HDBaseT signals and transfers them over a common Cat 5E/6 cable. This is more affordable than long HDMI cable runs and allows for greater distances between a display and source. Includes bidirectional IR control, so the source or display can be controlled from either end with your remote. Ideal for lecture theatres, shopping centers, or reception areas.

## **II. Features**

- Supports UHD up to 4K resolution.
- HDBase T signal transmission.
- HDMI V1.4 supported.
- HDCP compliant.

- Transfer Bidirectional Infrared control signal together with the HDMI signal.
- Supports POE (Power over Ethernet) function, either TX or RX powered 24V @1A.  
The POE Power Consumption is less than 10W.
- Use single UTP LAN cable (CAT-5E/6) to substitute HDMI cable to achieve long distance transmission.

### III. Package

HDMI Extender Emitter -----	1PC
HDMI Extender Receiver -----	1PC
IR Transmitter -----	2PCS
IR Receiver -----	2PCS
24V 1A DC Power Supply adapter -----	1PC
Operation Manual -----	1PC

#### **IV. Specifications**

Frequency Bandwidth	2.97Gbps
HDMI Transmitter Input/Output Ports	1x HDMI Female port/1 x CAT6 1x IR Transmitter/1x IR Receiver
HDMI Receiver Input/Output Ports	1 x HDMI Female port/1 x CAT6 1x IR Transmitter/1x IR Receiver
Power Supply	DC 24V 1A
ESD Protection Human Body Model:	$\pm 8\text{kV}$ (airgap discharge) $\pm 4\text{kV}$ (contact discharge)
Dimensions (mm)	65(W) X 100 (D) X 25 (H)
Weight	200g x 2
Operating Temperature	0° C ~ 40° C /32° F ~ 104° F

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Storage Temperature	-20° C ~ 60° C / -4° F ~ 140° F
Relative Humidity	20 ~ 90% RH (Non-condensing)
Power Consumption (Max)	20W

Transmission distance:

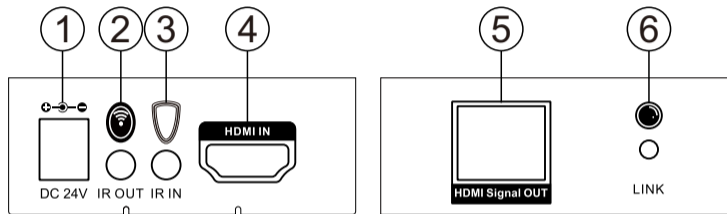
40 meters: 1080P @60Hz@48bit; 1080P @120Hz@24bit; 3D1080P@60Hz@36bit  
4K x 2K@30Hz@24bit.

70 meters: 1080P @60Hz36bit; 3D1080P@30Hz36bit;

Full HD support: 1080p @60Hz@48bit/pixels, 1080p @120Hz@24bit/pixels, 3D 1080P  
@60Hz and 4K x 2K @30Hz@24bit.

## V. Operation controls and Functions

### Transmitter



DC IN: Plug the 24V DC power supply into the unit.

IR OUT: Chanel 1 IR Receiver.

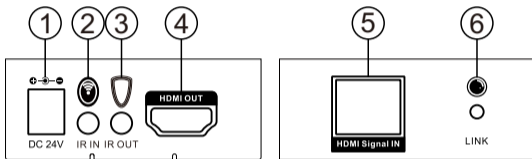
IR IN: Chanel 2 IR Emitter.

HDMI IN: HDMI Input port.

HDMI Signal OUT: Standard HDBaseT signal output port (Cat6 Socket)

LINK LED: This red LED illuminates when the Transmitter and Receiver are connected.

Receiver



DC IN: Plug the 24V DC power supply into the unit.

IR IN: Channel 1 IR Emitter

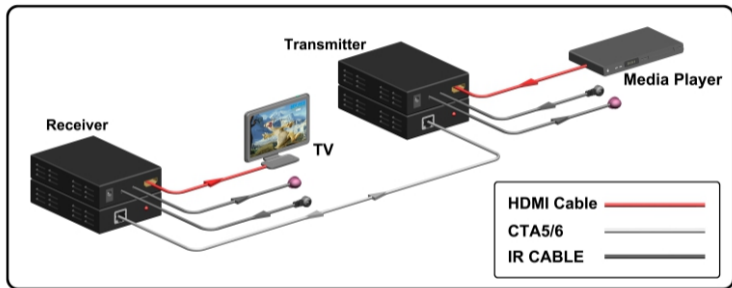
IR OUT: Channel 2 IR Receiver

HDMI OUT: HDMI Output port.

HDMI Signal IN: Standard HDBaseT signal input port (Cat6 socket)

LINK LED: This red LED illuminates when the Transmitter and Receiver are connected.

## VI. Application Example





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