

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 HDBase T 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 12V @2.5A. 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
12V2.5A DC Power Supply adapter -----	1PCS
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 12V 2.5A
ESD Protection Human Body Model:	± 8kV (air-gap discharge)
	± 4kV (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:

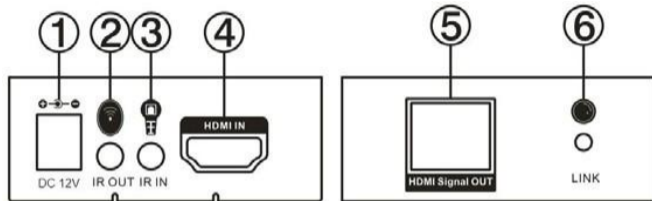
40 meters: 1080P @60Hz@48bit; 1080P @120Hz@24bit; 3D1080P@60Hz@36bit
4K x 2K@30Hz@24bit.

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 12V DC power supply into the unit.

Power supply can be connected to either Transmitter or Receiver.

IR OUT: Chanel 1 IR Receiver.

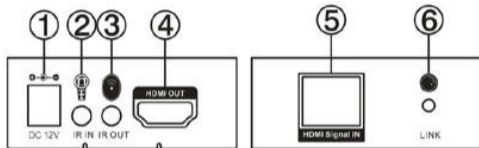
IR IN: Chanel 2 IR Emitter.

HDMI IN: HDMI Input port.

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

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

Receiver



DC IN: Plug the 12V DC power supply into the unit.

Power supply can be connected to either Transmitter or Receiver.

IR IN: Chanel 1 IR Emitter.

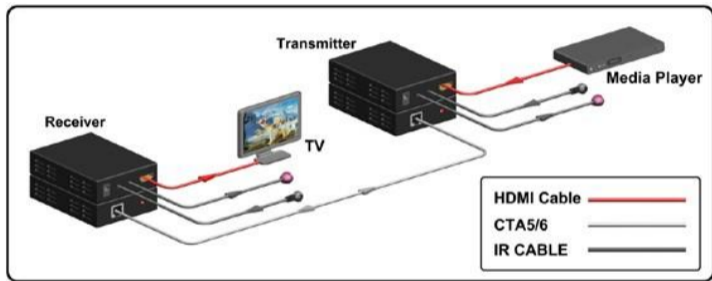
IR OUT: Chanel 2 IR Receiver.

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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