HDMI (HDBaseT) CAT5 Extender Series

ITEM NO.: HE02 HDMI CAT5 Extender With RS232 & IR over Single CAT5 cable

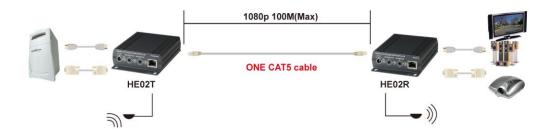


HE02 HDMI CAT5 Extender is using only one cost effective CAT5E/6 cable to extend your HDTV display up to 100 meters at 1080p. With Bi-directional RS232 and IR function to delivers significant value to the entire home and commercial entertainment system.

HE02 HDMI CAT5 Extender With RS232 & IR over Single CAT5 cable Features:

- Extends HDMI with control signal over one CAT5/5e/6 cables.
- Controls signals including RS232 and IR remote control.
- Uncompressed high definition video up to 1080p@60Hz@48bits and 3D and 4K*2K capable.
- Max. Data Rate- 10.2 Gbps.
- HDMI 1.4 and HDCP compliance.
- Bi-Directional IR function.
- Bi-Directional RS232 interface commands and data can flow in both directions via RS232, allowing status requests and control of the destination unit.
- Audio transmission support Dolby TrueHD, DTS-HD MA.
- Transmission range up to 100 meters at 1080p resolution.

Installation view:



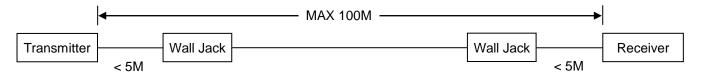
Cable:

Link cable recommend use high quality Cat.5e < Cat.6 < Cat.6a < Cat.7 UTP / STP or FTP cable. Poor quality cable or network connection or improper construction will cause unstable connection, video or sound disruptions, picture noise appears.

HDBaseT Distance chart by different cable:

Cable Type	Range	Pixel Clock Rate	Video Data Rate	Supported Video
CAT5e / CAT6	100m	<=225Mhz	<=5.3Gbps (HD Video)	Up to 1080p 60Hz 36 bits
CATSE / CATS	70m	>225Mhz	>5.3Gbps (Ultra HD Video)	1080p 60Hz 48bits 1080p 60Hz 3D,
CAT6a / CAT7	100m			4K x 2K 30Hz

If connection through the wall socket, the cable length must less 5 meters between HDMI extender and wall jack, as below drawing:



10/100Mbps network connection using general CAT5e cable and working distance up to 100M.

Low-power Mode:

When there is no HDMI video signal input, or TV is not connected or power off, this product will enter a low-power mode to save power consumption; Under a low power mode still provides Ethernet, RS-232(Max. 9600bps), IR, CEC of signal transmission.

RJ45 Define:

Video Link (TIA/EIA-568-B)

1. Orange-white	DÁTAO +
2. Orange	DATAO -
3. Green-white	DATA1 +
4. Blue	DATA2 +
5. Blue-white	DATA2 -
6. Green	DATA1 -
7. Brown-white	DATA3 +
8. Brown	DATA3 -

HE02 LED Indication :

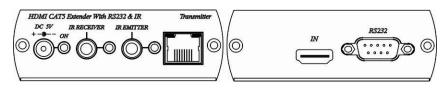
ON	GREEN	Power
IR	BLUE	IR Receive
IR	RED	IR Transmit

RJ45 LED Indication :

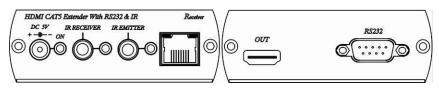
VIDEO GREEN		ON : HDBaseT linking
		FLash : Low Power Mode

Panel view:

HE02T



HE02R



Caution:

- 1. The wiring must away from any equipment with electromagnetic wave, i.e.: mobile phone, microwave, radio equipment, fluorescent lamp, high voltage power lines.
- 2. The cable must pull in straight to avoid any crosstalk interference and the transmission stability.
- 3. This device HDBaseT port is not general Ethernet signal; do not connect with Network devices to avoid damage.
- 4. IR transmitter do not put near from receiver to avoid mutual interference.

Package Include: HE02T HDM Transmitter x 1 pcs HE02R HDMI Receiver x 1 pcs IR Emitter Cable x 2 pcs IR Receiver Cable x 2 pcs Mounting Screw pack x 2 bags Power Adapter x 2 pcs

Specification:

ITEM	HE02T	HE02R		
HDMI Connector	1080p / 60Hz / 48 bits ,3D,4K x 2K			
HDMI Video	7.1 LPCM 192KHz , Dolby TrueHD , DTS-HD MA			
Distance	100M (Max)			
HDMI Connector	HDMI Type A			
RS-232 Connector	DB9 Female	DB9 Male		
HDBaseT Connector	RJ45 x 1			
RS-232 Baud Rate	Up to 115200 bps / Full Duplex			
IR Carrier	30~60KHz , T \therefore ± 15° , R \therefore ± 55° , 5M / Bi-directional			
Power Supply	DC 5V 2AMP			
Power Consumption	Max 3W , Low Power 0.8W	Max 6W , Low Power 1W		
Temperature	Operation: 0 to 55° , Storage: -20 TO 85° , Humidity: up to 95%			
Dimensions	88 x 1	88 x 130 x 30		
Weight	255	270		

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Rev. C