HDMI (HDBaseT) CAT5 Extender Series

ITEM NO.: HE02E HDMI CAT5e Extender over Single CAT5 Cable 100 Meters

HE02E HDMI Extra Long Range CAT5e Extender is using only one cost effective CAT5e/6 cable to extend your HDTV display up to 100 meters at 1080p. With high quality uncompressed video to delivers significant value to the entire home and commercial entertainment system.
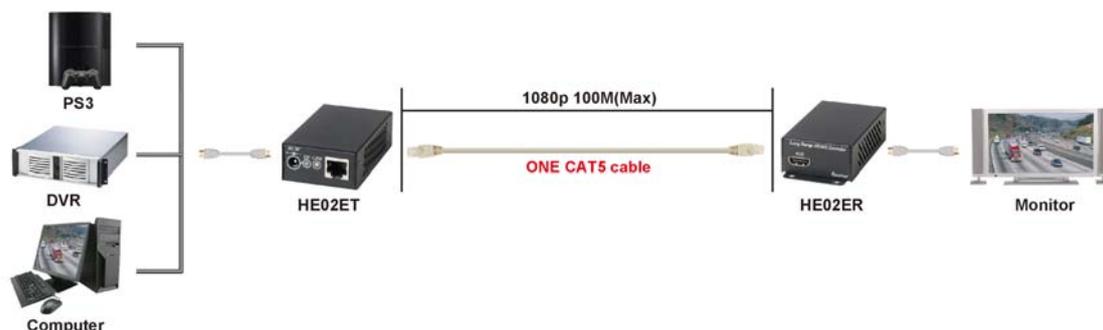

HE02E HDMI CAT5e Extender over Single cable
Features:
- Extends HDMI Signal over one CAT5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@48bits and 3D and 4K 60H (4:2:0) capable.
- Max. Data Rate- 10.2Gbps.
- HDMI 1.4 and HDCP compliance.
- Transmission range up to 100 meters at 1080p resolution.
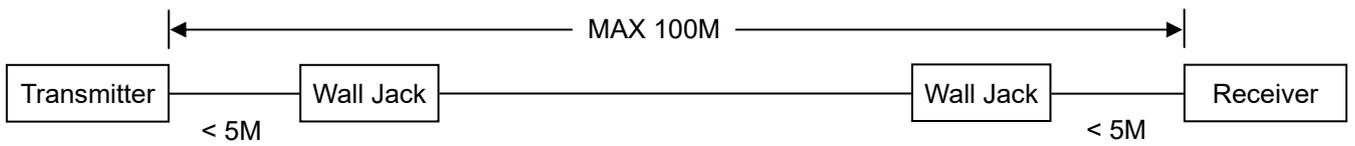
Installation view:

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
	70m	>225Mhz	>5.3Gbps (Ultra HD Video)	1080p 60Hz 48bits 1080p 60Hz 3D, 4K 30Hz 4:4:4 4K 60HZ 4:2:0
CAT6a / CAT7	100m			

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.
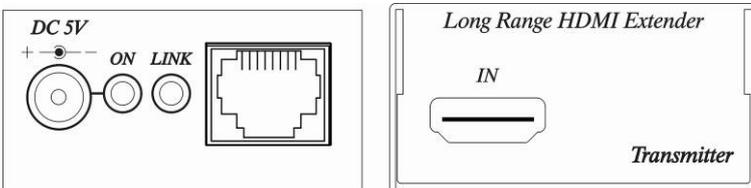
Video Link (TIA/EIA-568-B)
1. Orange-white   DATA0 +
2. Orange   DATA0 -
3. Green-white   DATA1 +
4. Blue   DATA2 +
5. Blue-white   DATA2 -
6. Green   DATA1 -
7. Brown-white   DATA3 +
8. Brown   DATA3 -

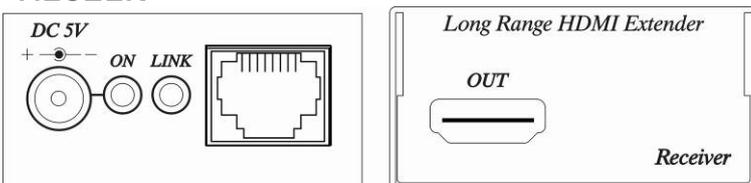## LED Indication :

GREEN: Power ON/OFF
BLUE: ON : HDBaseT linking
          FLash : Low Power Mode

Panel view:

HE02ET

HE02ER

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.

Package Include:

HE02ET HDM Transmitter x 1 pcs
HE02ER HDMI Receiver x 1 pcs
Mounting Screw pack x 2 bags
Power Adapter x 2 pcs

Specification:

ITEM NO.	HE02ET	HE02ER
HDMI Video Support	1080p / 60Hz / 48 bits，3D，4K 60Hz (4:2:0)	
HDMI Audio Support	7.1 LPCM 192KHz，Dolby TrueHD，DTS-HD MA	
Distance	100M	
Input / Output Interface	HDMI Type A x 1	
HDBaseT Connector	RJ45 x 1	
Power Consumption	Max 3W，Low Power 0.8W	Max 6W，Low Power 1W
Power Supply	DC 5V 2A	DC 5V 2A
Temperature	Operation: 0 to 55℃, Storage: -20 TO 85℃, Humidity: up to 95%	
Dimensions mm	49.2 x 92 x 25	49.2 x 92 x 25
Weight g	125	135

RoHS CE FC C

Rev. C