



HDMI over HDBaseT Extender

User Manual

Model : HE02E

4K HDMI CAT5e Extender 100M



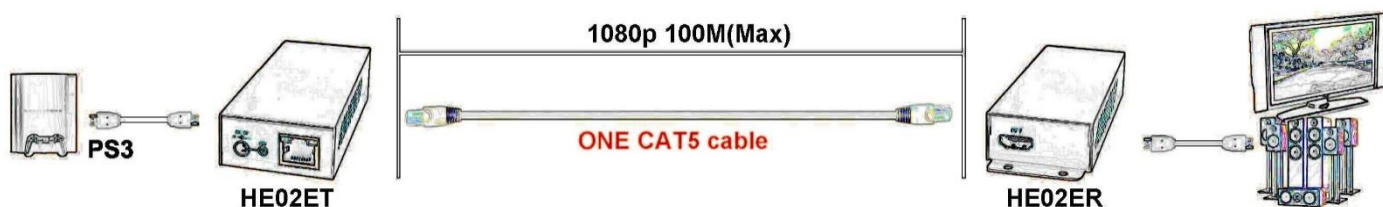
Introduction

HE02E is a 4K HDMI over HDBaseT™ extender that can use an Ethernet cable to send uncompressed HDMI signal with resolution up to 4K@60Hz 4:2:0 and transmission distance up to 70M.

Features

- Resolution up to 4K@60Hz 4:2:0.
- Signal extension up to 100M over CAT5e or greater cable.

Installation View



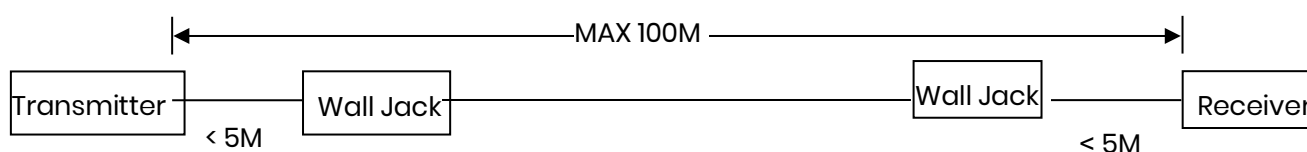
Cable

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	$\leq 225\text{Mhz}$	$\leq 5.3\text{Gbps}$ (HD Video)	Up to 1080p 60Hz 36 bits
	70m	$> 225\text{Mhz}$	$> 5.3\text{Gbps}$ (Ultra HD Video)	1080p 60Hz 48 bits, 1080p 60Hz 3D, 4K x 2K 30Hz
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)

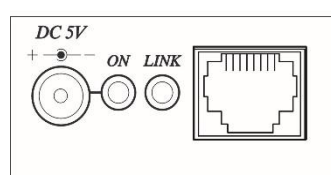
1. Orange-white	DATA0 +
2. Orange	DATA0 -
3. Green-white	DATA1 +
4. Blue	DATA2 +
5. Blue-white	DATA2 -
6. Green	DATA1 -
7. Brown-white	DATA3 +
8. Brown	DATA3 -

LED Indication

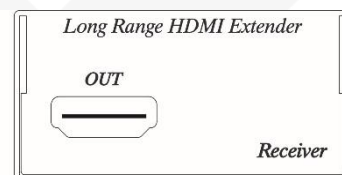
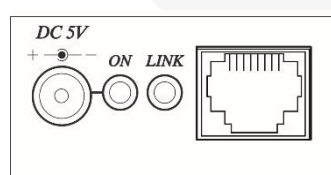
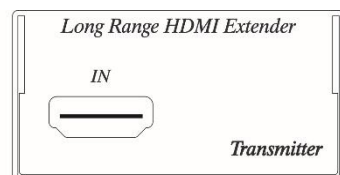
GREEN: Power ON/OFF
 BLUE: ON : HDBaseT linking
 Flash : Low Power Mode

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 HDMI 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
Support		
Compliance	HDMI 1.4, HDCP, 3D	
Max. Video Resolution	4K@30Hz	
Max. Transmission Distance	100M at 4K@30Hz over CAT6/ 7	
Video Bandwidth	10.2 Gbps	
Audio Format	7.1 LPCM 192KHz, Dolby TrueHD, DTS-HD MA	
Ports & Interfaces		
Video Input	1 x HDMI Type A	1 x HDBaseT
Video Output	1 x HDBaseT	1 x HDMI Type A
Power		
Power Supply	DC 5V 2A	DC 5V 2A
Power Consumption	3W (Max) 0.8W(Low Power)	6W (Max) 1W (Low Power)
Ambient Temperature		
Operation	0 to 55°C	
Storage	-20 to 85°C	
Humidity	up to 95%	
Physical Characteristics		
Dimensions	49.2 x 92 x 25mm	49.2 x 92 x 25mm
Weight	125g	135g

