

# HDMI CAT5 Extender & Distribution Series

## ITEM NO.: HE04 1 Input 4 Output HDMI (HDBaseT) Distribution Amplifier with IR

HE04 is based on HDBaseT technology to extend and distribute HDMI signal over CAT5 cable. The HE04 enables you to send one source to multiple displays up to 100M away. There are 3 different type receivers option, the distance could be 70meter/100meter with IR function Option.

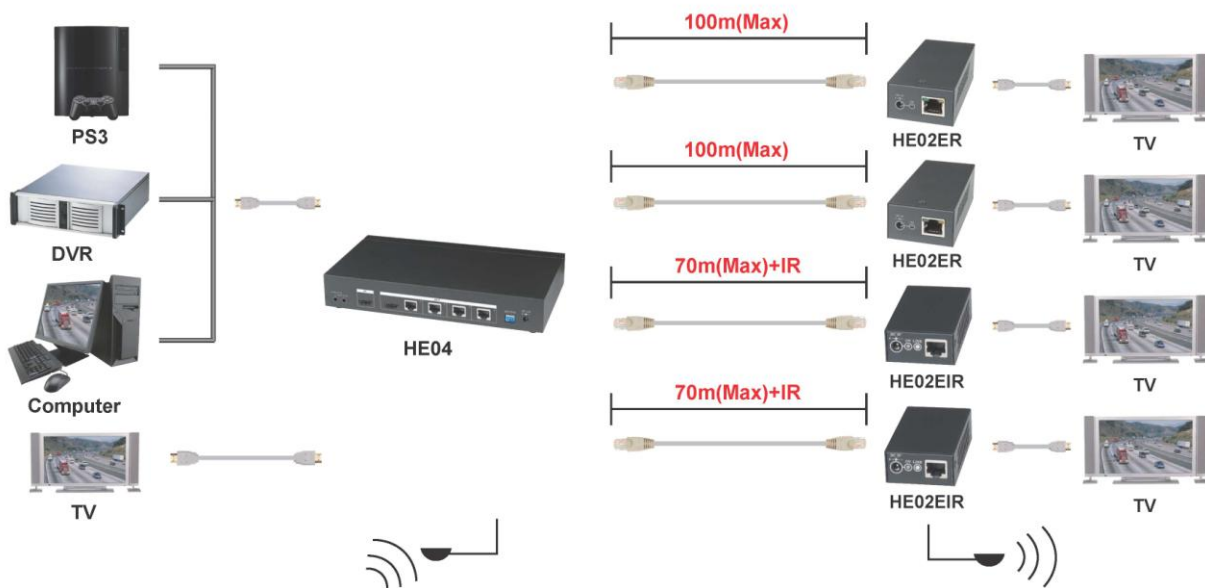


### HE04 1 Input 4 Output HDMI (HDBaseT) Distribution Amplifier with IR

- Extends and distributes HDMI signal to 4 remote HDMI displays over CAT5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@12bits.
- HDMI 1.4 with 3D, HDCP & DVI Compliant.
- Built in HDMI local output at transmitter unit.
- HDMI local output could be stackable to next HE04 for multiple output.
- Built in IR extender (work with receiver: HE02R)
- Work with HE02ER, HE02R receiver: distance up to 100 meters at 1080p resolution
- Work with HE02EIR receiver: distance up to 70 meters at 1080p resolution
- \*CAT5e receiver optional model: HE02R, HE02ER, HE02EIR



### Installation view:



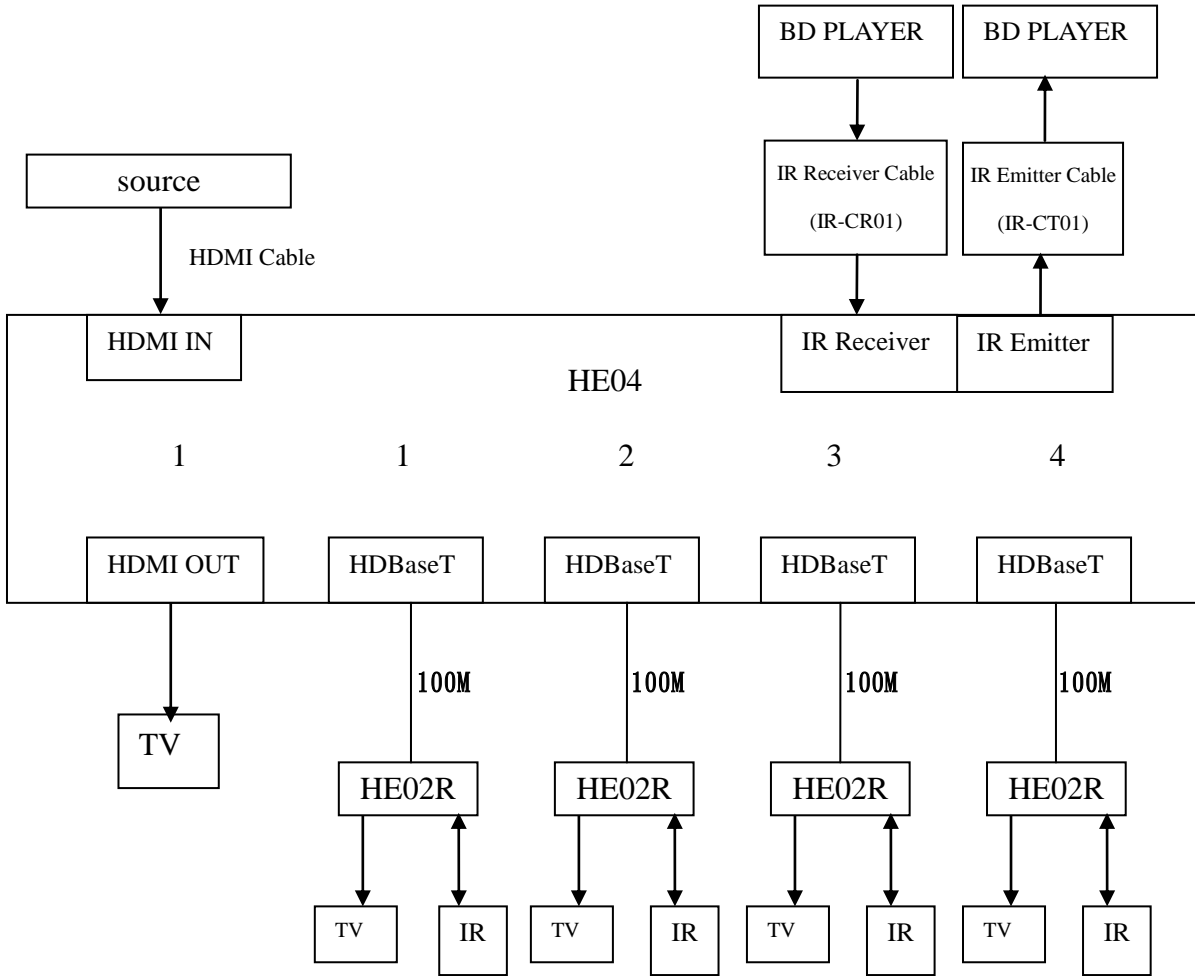
### Cable:

Link cable recommend use high quality Cat.5e · Cat.6 · Cat.6a · Cat.7 UTP / STP or FTP cable.

**Transmission Distance:**

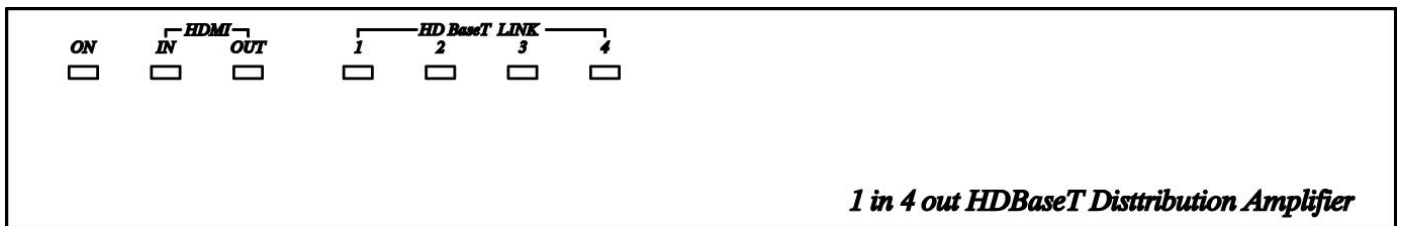
The maximum transmission distance up to 70/100meters according different receiver.  
 Use lower resolution won't extend longer distance. If connection through the wall socket,  
 the cable length must less 5 meters between HDMI extender and wall jack.

**HE04 Connection Diagram:**



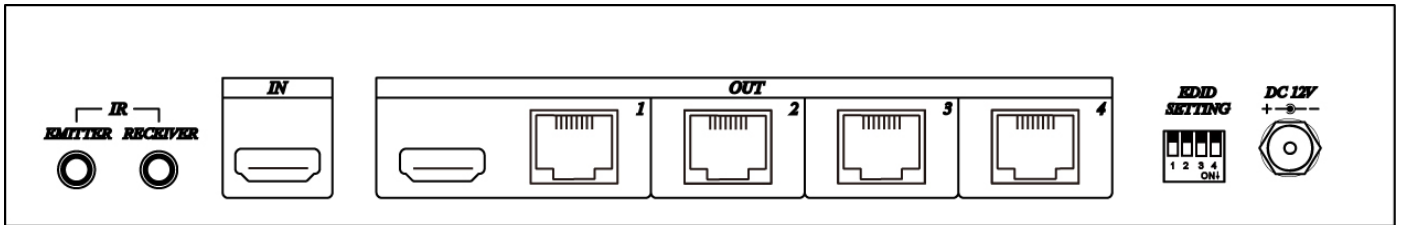
**Panel view:**

**Front Panel LED Indication :**



ON	Green LED	Power on/off
HDMI IN	Blue on Blue off	HDMI Signal Input Source no signal
HDMI OUT	Blue on Blue off	HDMI Signal Output Output unlink
HDBaseT OUT 1, 2, 3, 4	Blue on Blue off	HDBaseT data linking Unlink

## Back Side :



EDID : (Extended display identification data)

### **EDID SETTING**



#### Default Mode :

EDID Dip switch 1~4 all at "up" position.

#### EDID Copy Mode :

EDID Dip Switch 1 move down to ON , copy HDBaseT output 1 TV EDID for SOURCE reading.

EDID Dip Switch 2 move down to ON , copy HDBaseT output 2 TV EDID for SOURCE reading.

EDID Dip Switch 3 move down to ON , copy HDBaseT output 3 TV EDID for SOURCE reading.

EDID Dip Switch 4 move down to ON , copy HDBaseT output 4 TV EDID for SOURCE reading.

\*DIP switches over 2 pieces move to ON : copy HDMI OUT output TV EDID for SOURCE reading.

#### Remote IR Extender function:



#### EMITTER :

This function send HDBaseT four outputs receiving signal to TX, go through TX with 3.5ψ IR Emitter cable to transmit signal to control equipment

#### RECEIVER :

This function receive the IR signal via the Rx port 3.5ψ IR Receiver cable, then transmit to the four HDBaseT output.

#### 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 -

**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. This device is not network equipment, do not connect with Network to avoid damage.
3. IR transmitter do not put near from receiver to avoid mutual interference.

**Specification:**

ITEM NO.	HE04	
HDMI Max. Input Resolution	1080p @ 60Hz 12bit	
Video Input Interface	HDMI Type A x 1	
HDBaseT Output Max. Resolution	1080p @ 60Hz 12bit	
HDBaseT Max. Working Distance	100M	
HDMI Outupt Max. Resolution	1080p @ 60Hz 12bit	
Video Output Interface	HDMI Type A x 1 , RJ45 x 4	
HDBaseT IR Carrier Frequency	30~60KHz	
HDBaseT IR Emitter/Receive angle	Tx : $\pm 30^{\circ}$ , Rx : $\pm 55^{\circ}$	
HDBaseT IR Emitter/Receive distance	5 meters	
HDBaseT IR input/output interface	3.5mm Phone Jack x 2	
HE04 IR Receiving angle	$\pm 45^{\circ}$	
HE04 IR Receiving distance	5 meters	
Power Supply	DC 12V 4.2A	
Power Consumption	1.5A	
Temperature	Operation: 0 to 55°C , Storage: -20 TO 85°C , Humidity: up to 95%	
Dimension	mm	253 x 145 x 40
Weight	g	860

ITEM NO.	HE02R	
Resolution	Up to 1080p / 60Hz / 48 bit	
Distance	100M (Max)	
HDMI Connector	Type A	
RS-232 Baud Rate	Up to 115200 bps / Full Duplex	
RS-232 Connector	DB9 Male	
IR Carrier	38Khz / $\pm 10^{\circ}$ / 5M / 2 Way	
Power Supply	DC 5V 2AMP Regulated	
Power Consumption	1200mA (Max)	
Temperature	Operation: 0 to 55°C , Storage: -20 TO 85°C , Humidity: up to 95%	
Dimension	mm	88 x 130 x 30
Weight	g	270

ITEM NO.	HE02ER	
Resolution	Up to 1080p / 60Hz / 48 bit	
Distance	100M (Max)	
HDMI Connector	Type A	
Power Supply	DC5V 2A Regulated	
Power Consumption	1200mA (Max)	
Temperature	Operation: 0 to 55°C , Storage: -20 TO 85°C , Humidity: up to 95%	
Dimension	mm	49.2 x 92 x 25
Weight	g	135

<b>ITEM NO.</b>	<b>HE02EIR</b>
Resolution	Up to 1080p / 60Hz / 48 bit
Distance	60M by CAT5e/6, 70M by CAT6a
HDMI Connector	Type A
IR Carrier Frequency	30-60Khz
IR Angle	±55
IR Distance	5m
Power Supply	Regulated DC5V 2A x 2
Power Consumption	820mA (Max)
Temperature	Operation: 0 to 55°C, Storage: -20 TO 85°C, Humidity: up to 95%
Dimension	mm 49 x 92.3 x 25
Weight	g 135

RoHS   

Rev. A