

HDMI CAT5 Extender and Distribution Series Elpro Video Labs Ed.1 October 2013
ITEM NO.: HE04 1 Input 4 Output HDMI (HDBaseT) Distribution Amplifier with IR

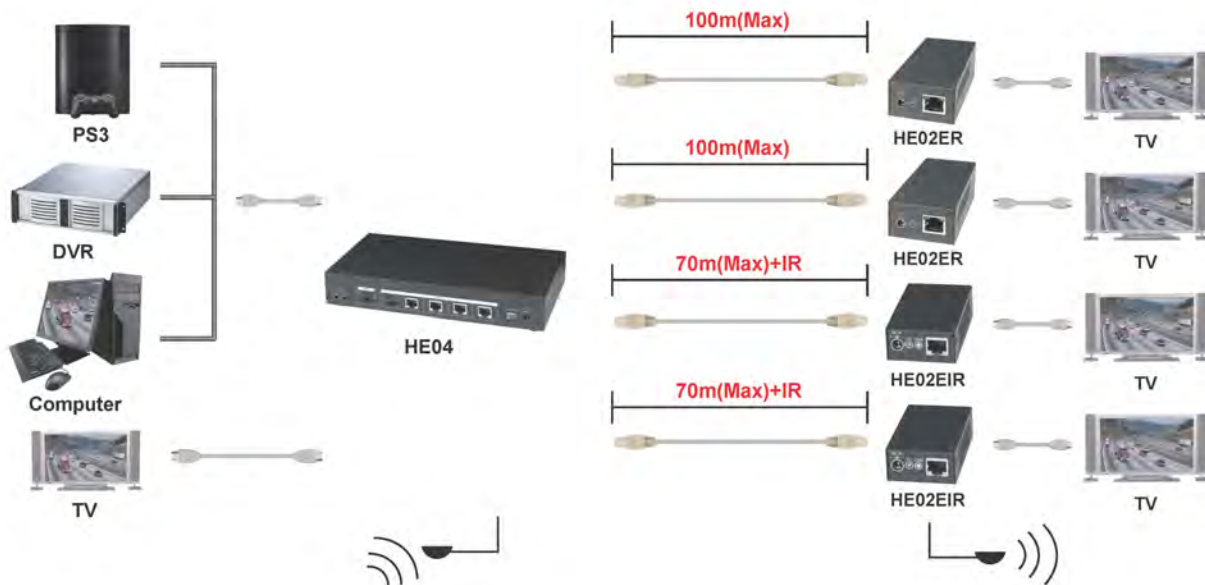
HE04 is a device based on HDBaseT™ technology suited to extend and distribute HDMI signal over CAT5 cable. The HE04 sends one HDMI source to four remote displays up to 100 m away. A local HDMI output is available. There are 3 different types of receivers option. The distance could be 70meter/100meter. IR function option is available.



- Uncompressed high definition video up to 1080p 60Hz 12bits.
- HDMI 1.4 with 3D, HDCP and 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 and HE02EIR)
- 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



Installation view:



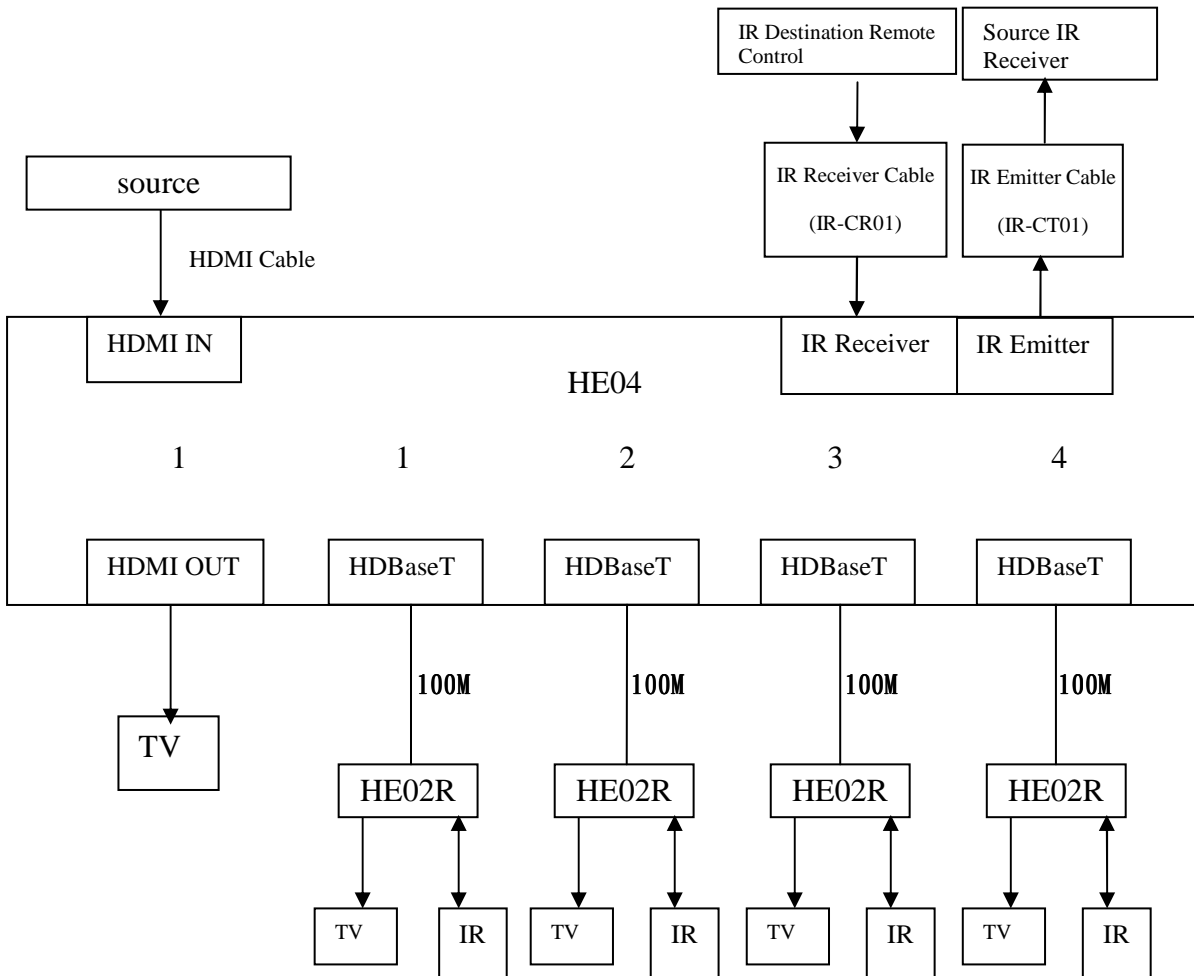
Cable:

Link cable recommend use high quality AWG24 Cat.5e · Cat.6 · Cat.6a · Cat.7 UTP / STP or FTP cable.

Transmission Distance:

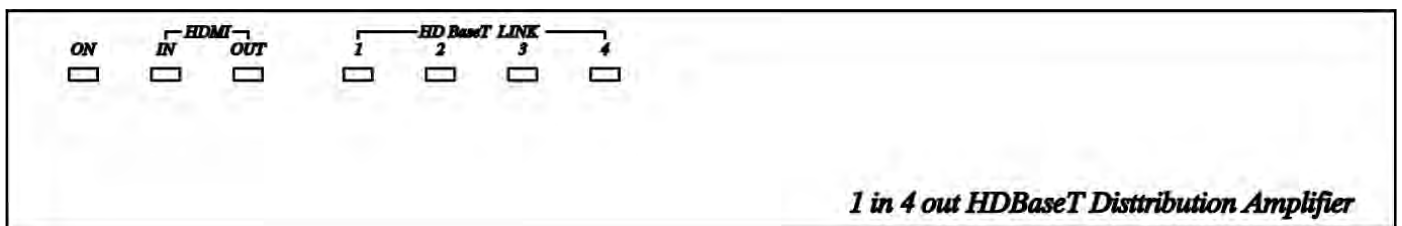
The maximum transmission distance up to 70/100meters according different receiver. Use lower resolution won't extend longer distance. If connection is made through the wall socket, the cable length must less 5 meters between HDMI extender and wall jack.

HE04 Connection Diagram:



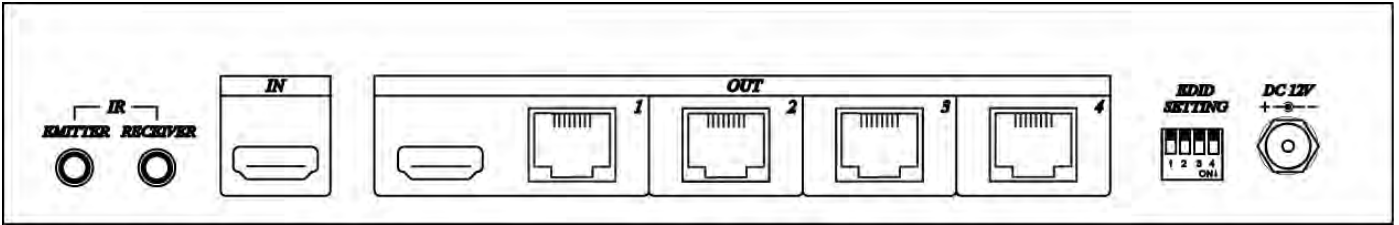
Panel view:

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 Out Unlink

Back Side :



EDID : (Extended display identification data)

EDID SETTING



Default Mode :

EDID Dip switch 1÷4 all at "up" position. (Off)

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 sends the HDBaseT IR RX input signals to the source equipment through the TX with 3.5 ϕ IR Emitter cable

RECEIVER :

This function receives the IR signal, via the Rx port 3.5 ϕ IR Receiver cable, and then transmits it to the four HDBaseT IR TX outputs

RJ45 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 must not placed near the 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	100 m	
HDMI Output 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 : ±30° , Rx : ±55°	
HDBaseT IR Emitter/Receive distance	5 meters	
HDBaseT IR input/output interface	3.5mm Phone Jack x 2	
HE04 IR Receiving angle	±45 °C	
HE04 IR Receiving distance	5 meters	
Power Supply	DC 12V 4.2A	
Power Consumption	1.5A	
Temperature	Operation: 0 to 55°, Storage: -20 TO 85°, Humidity: up to 95%	
Dimension	mm	253 x 145 x 40
Weight	g	860

ITEM NO.	HE02R	
Resolution	Up to 1080p / 60Hz / 16 bit	
Distance	100 m (Max)	
HDMI Connector	Type A	
RS-232 Baud Rate	Up to 115200 bps / Full Duplex	
RS-232 Connector	DB9 Male	
IR Carrier	38Khz / ±10° / 5M / 2 Way	
Power Supply	DC 5V 2AMP Regulated	
Power Consumption	1200mA (Max)	
Temperature	Operation: 0 to 55 °, Storage: -20 TO 85°, 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°, Storage: -20 TO 85°, Humidity: up to 95%	
Dimension	mm	49.2 x 92 x 25
Weight	g	135

ITEM NO.	HE02EIR	
Resolution	Up to 1080p / 60Hz / 16 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°, Storage: -20 TO 85°, Humidity: up to 95%	
Dimension	mm	49 x 92.3 x 25
Weight	g	135