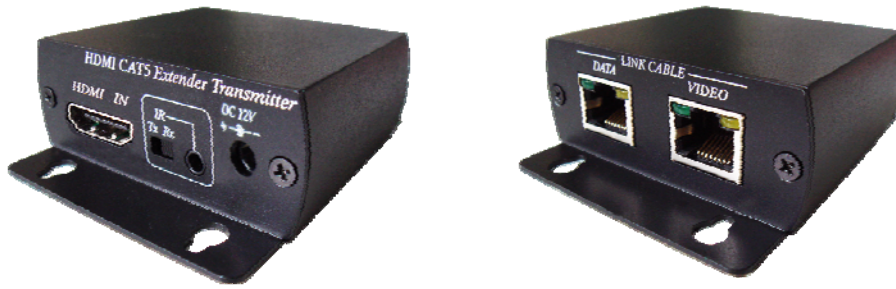# HDMI & IR CAT5 Extender Over Two CAT5 cable
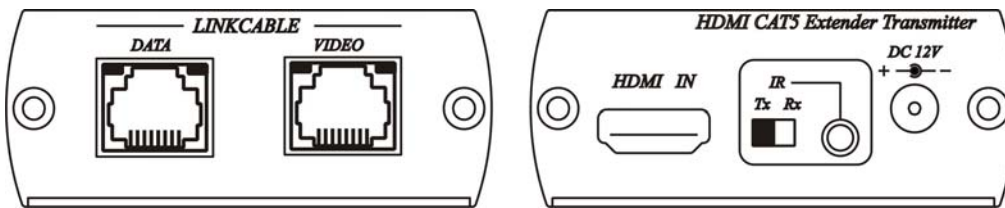
ITEM NO.:   HE01EI

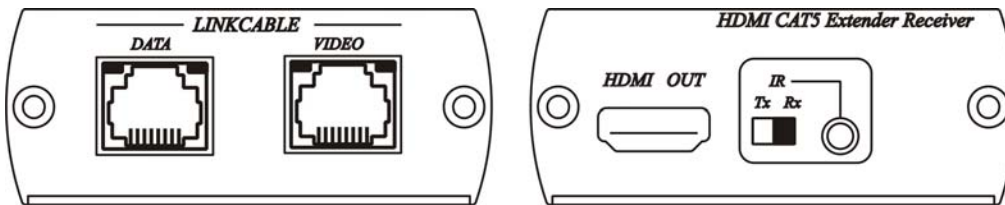**HE01EI   HDMI & IR CAT5 Extender over Two CAT5 cable**

- Extends HDMI & IR signal over two CAT5/5e/6 cables.
- External power supply requested with transmitter unit only, no power required at receiver (monitor) side.
- Built in IR signal, IR control could be selectable at either TX/RX side.
- Transmission range up to 60M at 1080i, 50M at 1080p resolution.
- HDMI 1.3 compliant, DDC, DTS-HD,Dolby.
- HDCP compliant.

Panel view & Function:

HE01EIT

HE01EIR

IR Switch Setting:

1. Sending IR Signal: IR Switch move to TX，IR connect to IR Emitter.
2. Receiving IR Signal: IR Switch move to RX，IR connect to IR Receiver.

HE01EIT RJ45 LED Status:

Video	RJ45	Green	HDMI 5V Power From Source Device
		Yellow	Hot Plug Disconnection
Data	RJ45	Green	Power Supply
		Yellow	IR Signal Indication

HE01EIR RJ45 LED Status:

Video	RJ45	Green	HDMI 5V Power From Transmitter Unit
		Yellow	HDMI Signal Loss
Data	RJ45	Green	Power On From Transmitter Unit
		Yellow	IR Signal

Cable:
Video Link cable using high quality CAT5E UTP or CAT5E STP cable,

Data Link cable using CAT5E UTP/STP or CAT6 UTP cable,
It is not high speed signal transmission, so using regular CAT5E UTP cable will be ok.

Transmission Range:
The transmission range will be based on the cable quality and HDMI equipment.
Use CAT5E UTP cable up to 40M@1080p.
Use CAT6   UTP cable up to 50M@1080p.
Use CAT5E UTP cable up to 60M@1080i/720p.

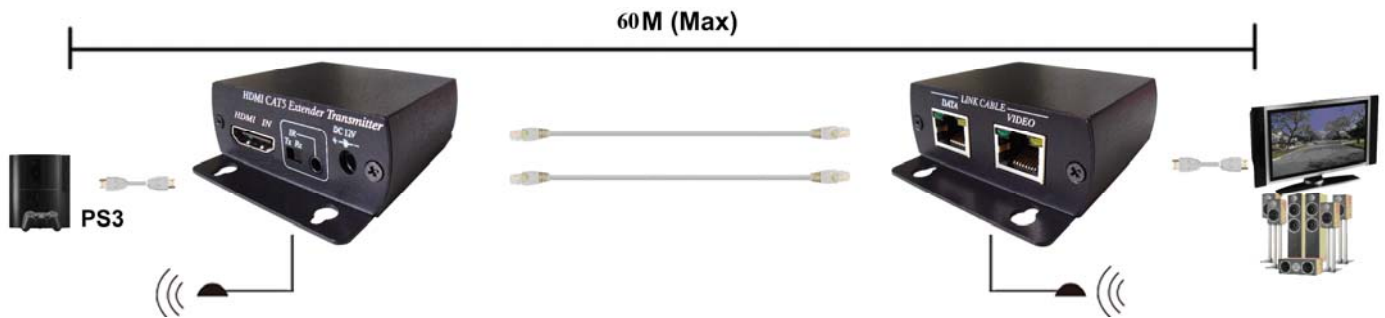## RJ45 pin Define:

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

Caution:
1. The cabling must away from any equipment with electromagnetic wave, i.e.:
microwave, radio equipment, high voltage.

2. IR receiving angle is ±45° with maximum distance 8 meters.
IR emitting angle is ±30° with maximum distance 5 meters.

Installation view:

Specification:

ITEM NO.	HE01EIT	HE01EIR
Video Bandwidth	2.25 Gbps (HDMI 1.3)	
Resolution	480i/480p/720p/1080i/1080p @24/50/60Hz	
Link Cable Distance	Cat.5e 60M @1080i , Cat.5e 50M @1080p	
HDMI Cable Distance	28 AW HDMI Cables 3m @1080p	
HDMI Connector	HDMI A Type x 1 (Input)	HDMI A Type x 1 (Output)
Link Connector	RJ-45 Shielded x 2	
IR Connector	3.5 mm Connector	
IR Carrier Frequency	20-60Khz	
Power Consumption	400mA (Max)	
Power Supply	12V DC · 500mA (External)	X
Temperature	Operation: 0 to 55℃, Storage: -20 TO 85℃, Humidity: up to 95%	
DIMENSIONS W x H x D mm	67 x 87 x 27	67 x 87 x 27
Weight	150 g	150 g

RoHS CE FC