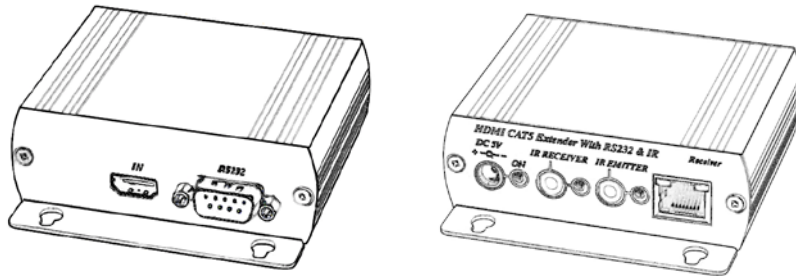# HDMI CAT5 Extender Series

ITEM NO.:   HE02 HDMI CAT5 Extender With RS232 & IR over Single CAT5 cable

HE02 HDMI CAT5 Extender is using only one cost effective CAT5E/6 cable to extend your HDTV display up to 100 meters at 1080p.   With Bi-directional RS232 and IR function to delivers significant value to the entire home and commercial entertainment system.
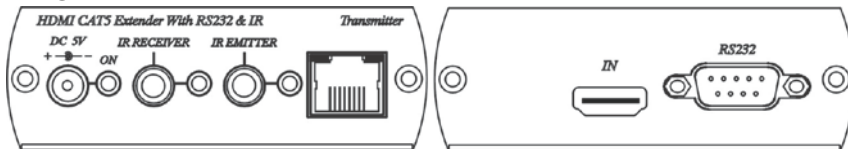

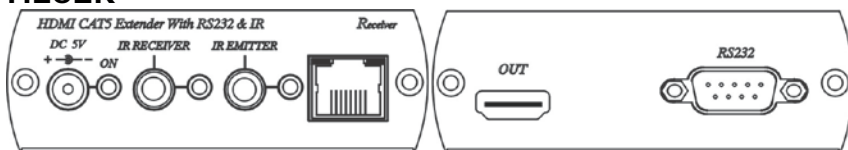**HE02 HDMI CAT5 Extender With RS232 & IR over Single CAT5 cable**
Features:
- **Extends HDMI with control signal over one CAT5/5e/6 cables.**
- **Controls signals including RS232 and IR remote control.**
- **Uncompressed high definition video up to 1080p@60Hz@48bits and 3D.**
- **Max. Data Rate- 10.2 Gbps.**
- **HDMI 1.3 and HDCP compliance.**
- **Bi-Directional IR function.**
- **Bi-Directional RS232 interface – commands and data can flow in both directions via RS232, allowing status requests and control of the destination unit.**
- **Audio transmission support Dolby TrueHD, DTS-HD MA.**
- **Transmission range up to 100 meters at 1080p resolution.**
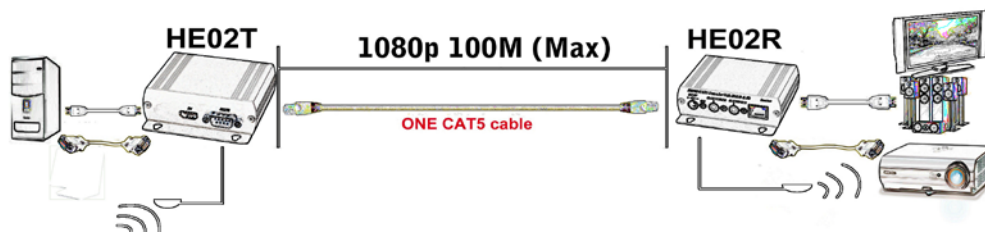
Panel view:
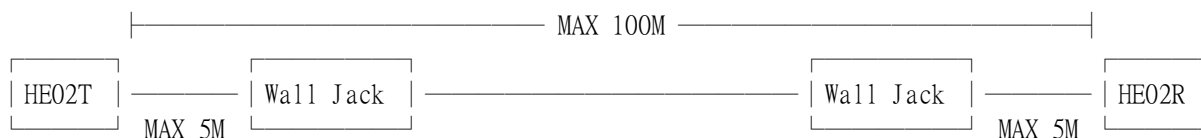**HE02T**

HE02R

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 100meters, 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, as below drawing:

```
|---------------------------- MAX 100M ----------------------------|
 _____                                                    _____
|HE02T |——————| Wall Jack |———————————————| Wall Jack |—————|HE02R |
|_____|  MAX 5M |_____|               |_____| MAX 5M |_____|
```

RJ45 Define:

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**
    BLUE   **IR Receive**
    RED   **IR Transmitt**
    RJ-45 GREEN   **Link**

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.

Package Include:

    Transmitter x 1 piece
    Receiver x 1 piece
    Power adapter x 2 pieces
    IR Emitter cable x 2 pieces
    IR Receiver cable x 2 pieces

Specification:

ITEM	HE02T	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 Female	DB9 Male
IR Carrier	38Khz / ±10° / 5M / 2 Way	
Power Supply	DC 5V 2AMP Regulated	
Power Consumption	600mA (Max)	1200mA (Max)
Temperature	Operation: 0 to 55℃, Storage: -20 TO 85℃, Humidity: up to 95%	
Dimensions	88 x 130 x 30	
Weight	255	270

RoHS CE FC C

Rev. B