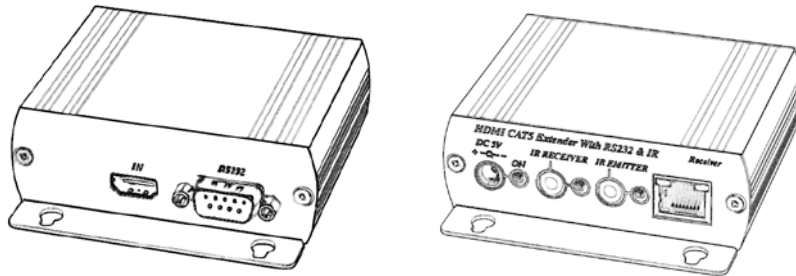# HDMI CAT5 Extender Series

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.
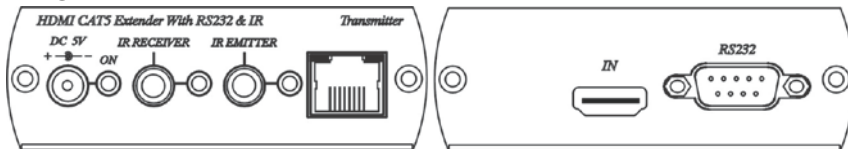

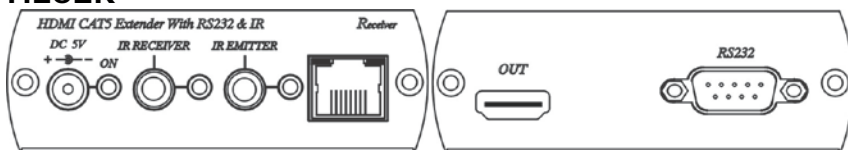**HE02 HDMI CAT5 Extender With RS232 & IR over Single CAT5 cable**
Features:

- **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.**
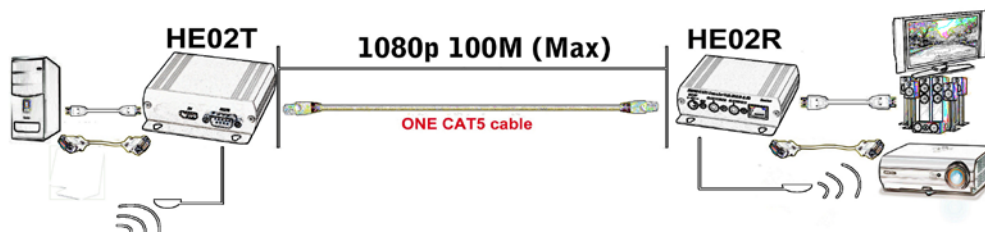
Panel view:
HE02T
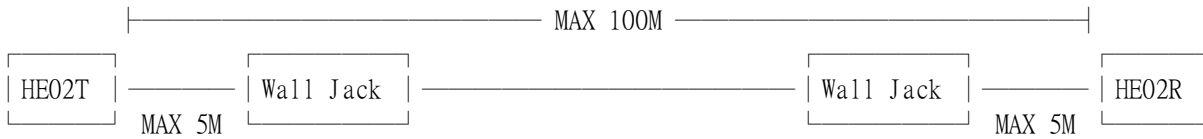

HE02R

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