

## HDMI CAT5 Extender Over Single cable Series

ITEM NO.: HE01ST, HE01SR, , HE01SLR, HE01SER

The HDMI CAT5 Extender is using only one cost effective CAT5E/6 cable to extend your HDTV display up to 70 meters at 1080i and 40 meters at 1080p. It is equipped with HDMI connectors and also supports DVI equipment with allowing used with a HDMI to DVI adapter. It provides an easy and flexible cabling solution for integrating home theater components.



### HE01S HDMI CAT5 Extender – Single CAT5e cable

- Extends HDMI signal over one CAT5e/6 cable.
- HDMI 1.3 compliant.
- Transmission range up to 60M at 1080i, 40M at 1080p resolution.
- Built in auto equalization for easy plug and play.
- Transmitter unit built in EDID backup function.
- No external power requested at receiver unit under distance 30 meters.
- HDCP compatible.
- **Optional HDMI CAT5e Receiver: HE01SLR, HE01SER**

### Optional HDMI CAT5 Receiver

#### HE01SLR HDMI CAT5 Receiver – Chainable Function

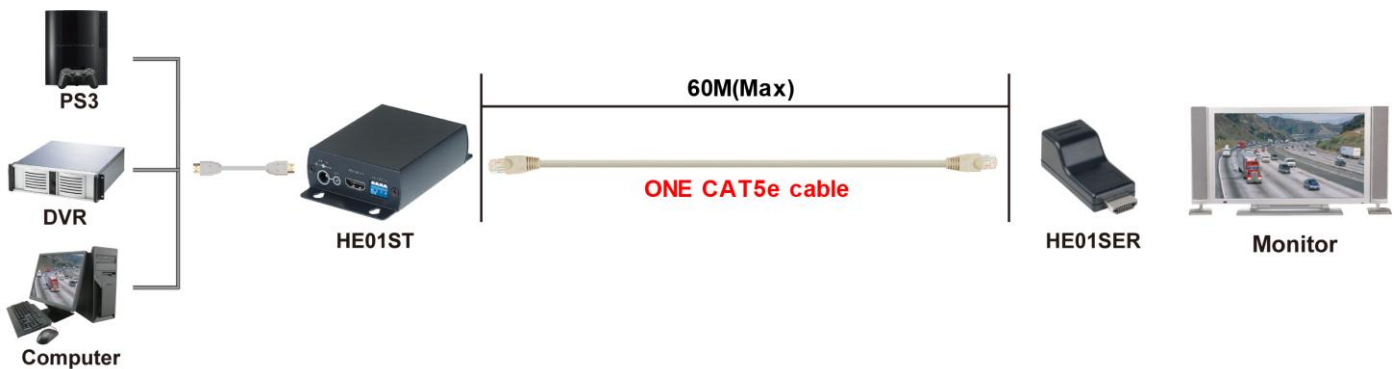
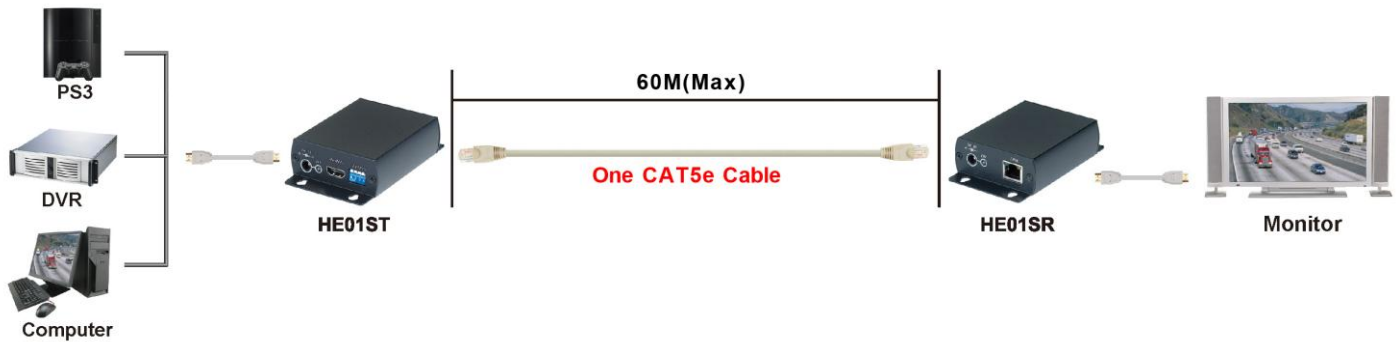
- **Work with HE01ST as receiver for extra remote HDMI display equipment.**
- **Built in Loop out, could be daisy chained for another HE01SLR to extended working range and multiple displays.**
- **Built in auto equalization, retiming, pre-emphasized for optimum performance.**
- Transmission range up to 70M at 1080i, 30M at 1080p resolution.



## HE01SER HDMI CAT5 Receiver – Passive type

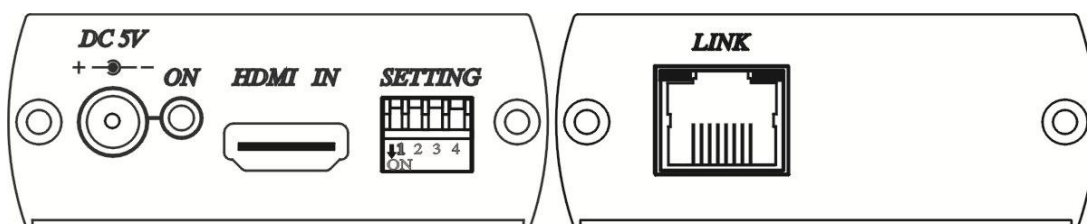
- Work with HE01ST as economic type receiver.
- Passive, no external power required.
- HDMI 1.3 compliant.
- Transmission range up to 60M at 1080i/720p, 40M at 1080p resolution.
- No external power requested at HE01SER receiver unit.

### Installation view:



### Panel view & Function:

#### HE01ST



## EDID Setup:

### Use default EDID:

- move DIP switch 1 off ↑
- move DIP switch 2 off ↑ Select the first default EDID: support 1080i / LPCM 2 Channel.
- move DIP switch 2 on ↓ Select the second default EDID: support 1080p / LPCM 5.1 Channel.

### Use external EDID:

1. move DIP switch 1 on ↓, HE01ST unplug the power.
2. HE01ST connect to HDMI connector of TV for auto backup.
2. Plug the power for HE01ST, TV EDID back up completed ( Blue Power LED keep flash)
3. After complete TV EDID backup, HE01ST power must be reset ( unplug and plug) to activate the new EDID.

## Transmitter Unit LED Indication:

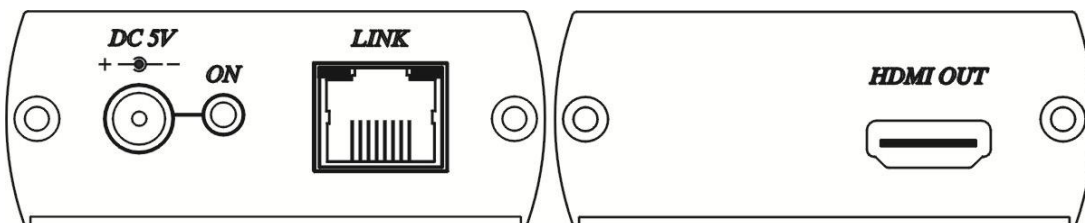
<b>BLUE ON</b> <b>Flash</b>	<b>Power on</b> <b>TV EDID backup completed</b>
<b>RJ45 Connector LED:</b> <b>GREEN ON</b>	<b>Sending power or video to receiver unit</b>
<b>YELLOW ON</b>	<b>No data input or unsupported video format</b>

### Dip Switch function:

- 1 ↑ Use the default EDID.  
↓ Use the backup TV EDID.
- 2 ↑ Select the first default EDID: support 1080i / LPCM 2 Channel.  
↓ Select the second default EDID: support 1080p / LPCM 5.1 Channel.
- 3 Reserve (Dip switch 3, do not move to ↓)
- 4 Reserve (Dip switch 4, do not move to ↓)

- After complete Dip Switch setting, power must be reset ( unplug and plug) to activate the new EDID.

### HE01SR



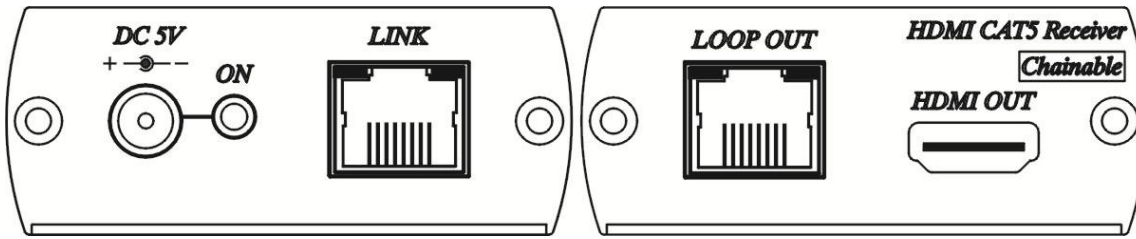
### HE01SR Receiver unit LED Indication:

BLUE ON Using external power adapter

### RJ45 Connector LED:

GREEN ON Power and HDMI signal received from transmitter unit  
YELLOW ON No data input or signal too weak

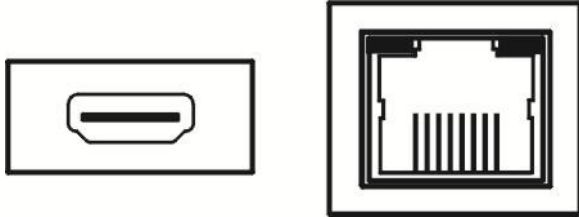
### HE01SLR



**HE01SLR Receiver Unit LED Indication:**

- BLUE ON                      Using external power adapter
- GREEN ON                  Power and HDMI signal received from transmitter unit
- YELLOW ON                No data input or signal too weak

**HE01SER**



**HE01SER Receiver Unit LED Indication:**

- GREEN ON                      Sending power or video to receiver unit
- YELLOW ON                  No data input or unsupported video format

**Cable:**

Link cable using high quality CAT5e UTP or CAT6 UTP cable.  
 CAT6 cable is recommend based on distance over 30 meters.  
 Using FTP (STP) cable could have interference rejection, but may cause distance shorter.

**Transmission Distance:**

The transmission distance will be affected from different HDMI equipment and cable quality. Lower resolution and good quality cable could extend longer distance up to 100 meters.

<b>HE01ST to HE01SR</b>	
<b>Resolution/Cable</b>	<b>Distance(Meter)</b>
1080p/CAT5e	40
1080p/CAT6	45
1080i,720p/CAT5e	60

<b>HE01ST to HE01SLR</b>	
<b>Resolution/Cable</b>	<b>Distance(Meter)</b>
1080p/CAT5e	30
1080p/CAT6	35
1080i,720p/CAT5e	70

<b>HE01ST to HE01SER</b>	
<b>Resolution/Cable</b>	<b>Distance(Meter)</b>
1080p/CAT5e	40
1080p/CAT6	45
1080i,720p/CAT5e	60

## RJ45 Define:

### Video Link (use TIA/EIA-568-B)

1. Orange-white	TMDS DATA2 +
2. Orange	TMDS DATA2 -
3. Green-white	TMDS CLOCK + / HDMI 5V
4. Blue	TMDS DATA1 +
5. Blue-white	TMDS DATA1 -
6. Green	TMDS CLOCK - / HDMI 0V
7. Brown-white	TMDS DATA0 +
8. Brown	TMDS DATA0 -

### Caution:

- 1. The cabling must away from any equipment with electromagnetic wave, such as microwave ovens, mobile phones, radio equipment, power lines.**
- 2. Our HDMI CAT5E Extender not networking product, please do not connect with any Ethernet to avoid any damage.**

### Specification:

ITEM NO.	HE01ST	HE01SR
Video Bandwidth	2.25 Gbps (HDMI 1.3)	
Resolution	480i/p, 720p, 1080i/p @ 24/50/60Hz	
Link Cable Distance	CAT5e 60M @1080i, CAT5e 40M @1080p	
Input TMDS Signal	1.2 volts peak to peak	
Input DDC Signal	5 Volts peak to peak	
HDMI Connector	HDMI 19 pin type female connector	
Link Connector	RJ-45 Shielded with 2 indication LEDS	
Power Supply	5V DC 2AMP regulated (External) x 2	
Power Consumption	1200mA (Max)	700mA (Max)
Temperature	Operation: 0 to 55°C, Storage: -20 TO 85°C, Humidity: up to 95%	
Dimensions W x H x D mm	120x67x27	120x67x27
Weight	180 g	170g

ITEM NO.	HE01SLR	HE01SER
Resolution	480i/p, 720p, 1080i/p @ 24/50/60Hz	
Distance	Cat.5e 70M @1080i, Cat.5e 30M @1080p	Cat.5e 60M @1080i, Cat.5e 40M @1080p
HDMI Connector	Type A	
Link Connector	RJ-45	
Loop Out Connector	RJ-45	
Power Supply	Regulated 5V / 2A	X
Power Consumption	1150mA (Max)	mA (Max)
Dimensions	110×67×27 mm	24×57.5×22.2 mm
Shipping Weight	180 g	25 g

RoHS   