

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 50 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 CAT5 cable 50 Meters

- Extends HDMI signal over one CAT5/5e/6 cable.
- HDMI 1.3 compliant.
- Transmission range up to 70M at 1080i, 50M 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 CAT5 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.**

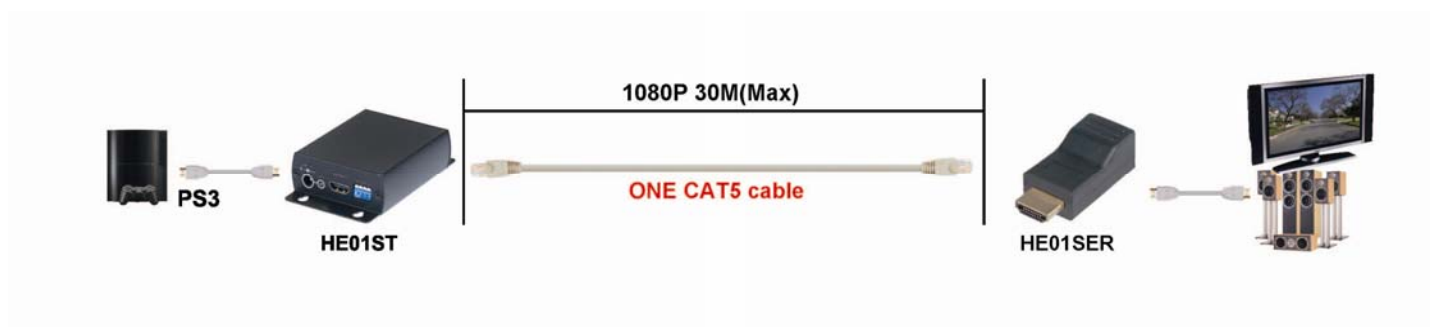
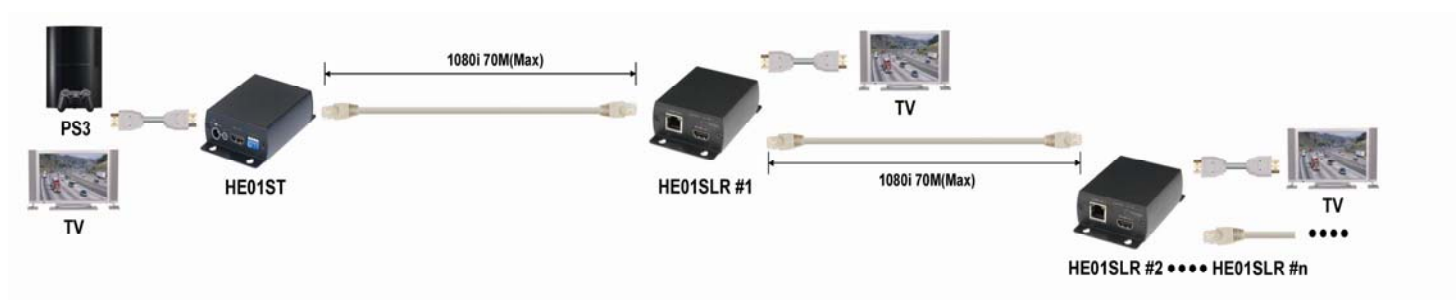
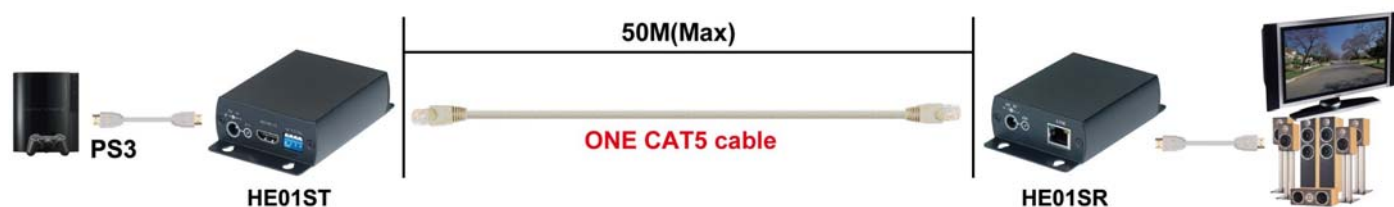


HE01SER HDMI CAT5 Receiver – Passive type

- Work with HE01ST as economic type receiver.
- Passive, no external power required.
- HDMI 1.3 compliant.
- Extend the transmission distance up to 50M at 1080i / 720p
- Extend the transmission distance up to 30M at 1080p.

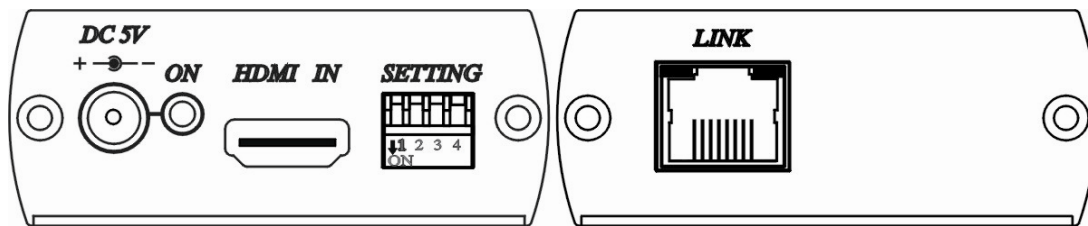


Installation view:



Panel view & Function:

HE01ST



Transmitter Unit LED Indication:

BLUE ON	Power on
Flash	Under backup TV EDID, wait TV accept.
Flash one time	TV EDID backup completed
Flash two times	TV EDID backup failed, incorrect EDID.
Flash three times	TV EDID backup failed, EDID checksum error

RJ45 Connector LED:

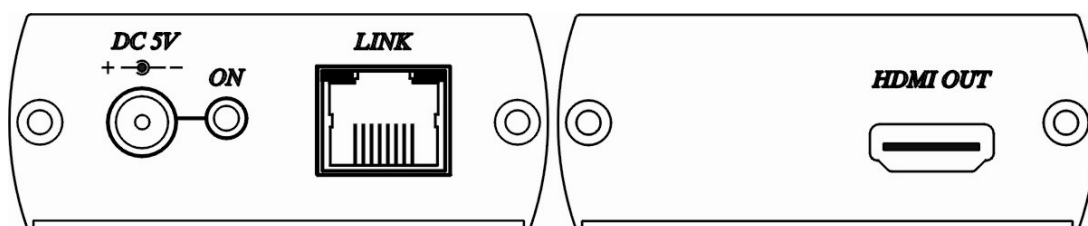
GREEN ON	Sending power or video to receiver unit
YELLOW ON	No data input or unsupported video format

Dip Switch function:

- 1 ↑ Use the default EDID.
 ↓ Use the backup TV EDID. (**If backup TV EDID is not correct, it will auto select the first default EDID**)
- 2 ↑ Select the first default EDID: support 1080i / LPCM 2 Channel.
 ↓ Select the second default EDID: support 1080p / LPCM 5.1 Channel.
- 3 ↑ Normal
 ↓ Backup EDID (**The Dip Switch 1 must at ↓ position, then to start backup.**)
- 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:

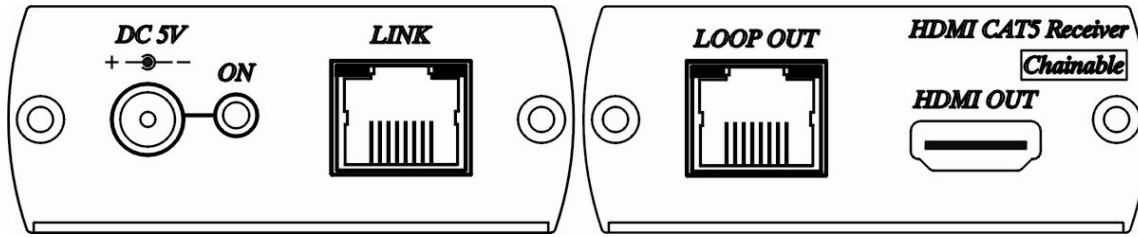
BLUE ON	Using external power adapter
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RJ45 Connector LED:

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

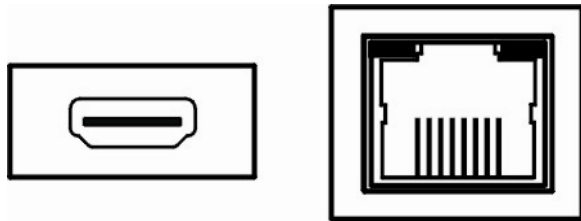
HE01SLR



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.

HE01ST to HE01SR	
Resolution/Cable	Distance(Meter)
1080p/CAT5	45
1080p/CAT6	50
1080i, 720p/CAT5	70

HE01ST to HE01SLR	
Resolution/Cable	Distance(Meter)
1080p/CAT5	30
1080p/CAT6	35
1080i, 720p/CAT5	70

HE01ST to HE01SER	
Resolution/Cable	Distance(Meter)
1080p/CAT5	30
1080p/CAT6	35
1080i, 720p/CAT5	50

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 CAT5 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 70M @1080i, CAT5e 45M @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 50M @1080i, Cat.5e 30M @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   