HDMI CAT5 Extender

ITEM NO.:   HE01S   HDMI CAT5 Extender over Single CAT5E cable

The HDMI CAT5E 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 CAT5E Extender over Single CAT5E cable
- Extends HDMI signal over one CAT5E/5e/6 cables.
- HDMI 1.3 compliant, 3D capable.
- Transmission range up to 40 meters at 1080p resolution.
- Built in auto equalization for easy plug and play.
- Transmitter unit built in EDID auto backup function.
- No external power requested at receiver unit under distance 30 meters.
- HDCP compliant.

Panel view & Function:
HE01ST
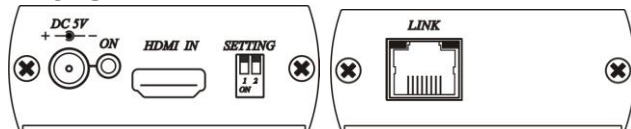
EDID Setup:
Use default EDID:
move DIP switch 1 off ↑
move DIP switch 2 off ↑ Select the first default   EDID: support 1080i / LPCM 2 Channel.
move DIP switch 2 on ↓ Select the second default EDID: support 1080p / LPCM 5.1 Channel.

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

Transmitter Unit LED Indication:
BLUE	ON	Power on
	Flash	TV EDID backup completed

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.
2	↑	Select the first default EDID: support 1080i / LPCM 2 Channel.
	↓	Select the second default EDID: support 1080p / LPCM 5.1 Channel.

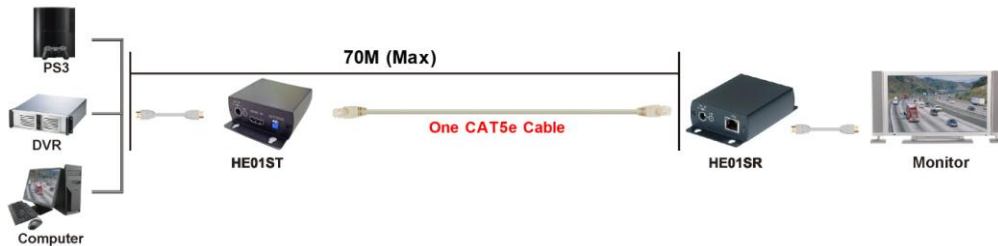**After complete Dip Switch setting, power must be reset (unplug and plug) to activate the new EDID.**

HE01SR
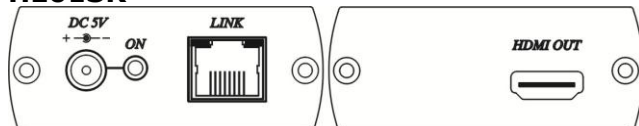
Receiver unit LED Indication:

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

Installation view:

Cable:

Link cable use high quality CAT5e UTP or CAT6 UTP cable.
CAT6 cable is recommend based on distance over 30 meters.
Do not use STP cable which caused no picture.

Transmission Distance:

The transmission distance will be affected from different HDMI equipment and cable quality.

HE01ST to HE01SR	
Resolution/Cable	Distance(Meter)
1080p/CAT5e	40
1080p/CAT6	45
1080i,720p/CAT5e	70

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:
The cabling must away from any equipment with electromagnetic wave, such as microwave ovens, mobile phones, radio equipment, power lines.

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 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	DC 5V 2AMP regulated (External) x 2	
Power Consumption	1200mA (Max)	700mA (Max)
Temperature	Operation: 0 to 55℃, Storage: -20 TO 85℃, Humidity: up to 95%	
Dimensions mm	67 x 91 x 27	67 x 120 x 27
Weight g	140	175

RoHS CE FC

Rev. C