



HDMI Extender

User Manual

Model : HE01SE

HDMI CAT5e Extender-Single CAT5e cable 1080p 40M



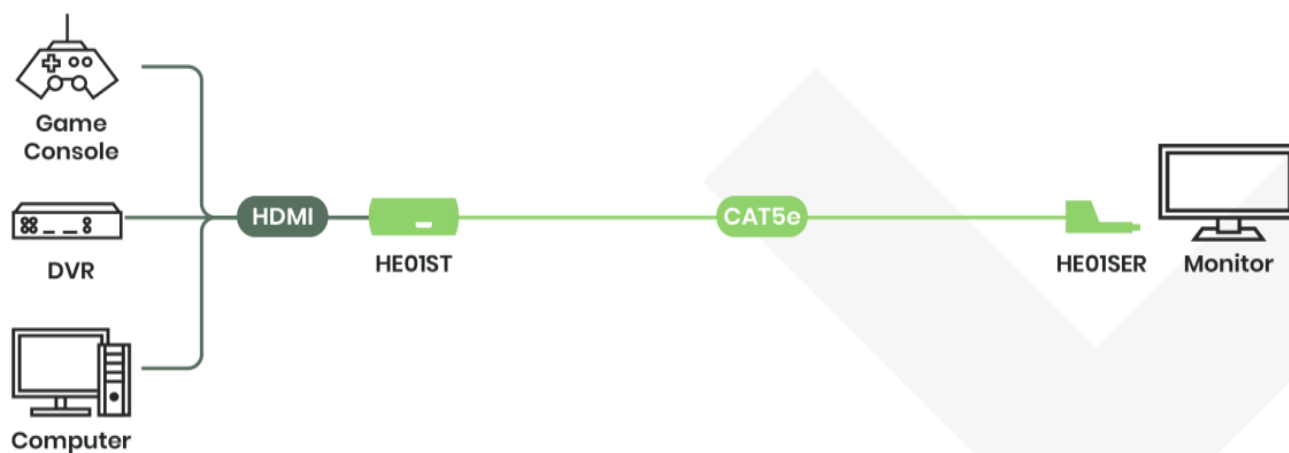
Introduction

HE01SE is an HDMI extender that uses an Ethernet cable to extend HDMI signal with transmission distance up to 70 meters and resolution up to 1080p. The Tx unit has a built-in EDID auto backup function that can save desired resolution and restore it whenever. The RX unit has a built-in HDMI connector that allows the receiver to directly connect to an HDMI display without any external power required.

Features

- Resolution up to 1080p.
- Signal extension up to 50M.
- No external power required for RX unit.
- Supports EDID management.

Installation View



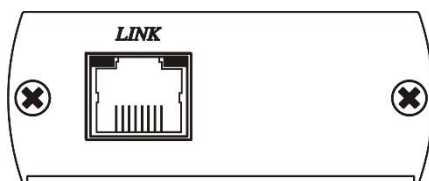
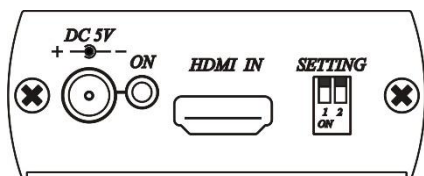
Transmission Distance

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.

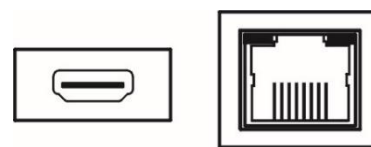
Resolution	Cable	Distance (Meters)
1080p	CAT5e	40
1080p	CAT6	45
1080i,720p	CAT5e	60

Panel View

HE01ST



HE01SER



LED Indication

HE01ST Transmitter Unit

Blue ON	Power ON
Flash	TV EDID backup completed

HE01SER Receiver Unit

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

RJ45 Connector LED

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

EDID Setup

Default EDID

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

EDID Copy

1. Move DIP switch 1 on ↓, power off the HE01ST.
2. Connect the HE01SER to HDMI connector of TV for auto backup.
3. Power the HE01ST, and TV EDID back up will be completed (Power LED will keep flashing).
4. Reboot the HE01ST to enable the new EDID.

DIP Switch

DIP Switch	Position	Description
1	↑	Enable the default EDID
	↓	Copy the TV EDID
2	↑	Select the first default EDID: 1080i / LPCM 2 Channel.
	↓	Select the second default EDID: 1080p / LPCM 5.1 Channel.

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

RJ45 Define

No.	Wire Color	Pin Define
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.
- Our HDMI CAT5E Extender not networking product, please do not connect with any Ethernet to avoid any damage.
- Link cable using high quality CAT5e UTP or CAT6 UTP cable.
- CAT6 cable is recommend based on distance over 30 meters.
- Do not use STP cable which may cause no picture shown.

Specification

ITEM NO.	HE01ST	HE01SER
Support		
Compliance	HDMI 1.3, HDCP, 3D	
Max. Video Resolution	1080p@60Hz	
Max. Transmission Distance	60M at 1080i, 40M at 1080p	
Video Bandwidth	2.25 Gbps	
Ports & Interfaces		
Video Input	1 x HDMI Type A Female	1 x RJ45
Video Output	1 x RJ45	1 x HDMI Type A Female
Power		
Power Supply	DC 5V 1A	
Power Consumption	600mA	
Ambient Temperature		
Operation	0 to 55°C	
Storage	-20 to 85°C	
Humidity	up to 95%	
Physical Characteristics		
Dimensions	67 x 91 x 27mm	57.5 × 24 × 20.2mm
Weight	140g	20g