HDMI Extender

User Manual

Model : HE01S

4K60Hz HDMI & USB/IR/RS232 KVM Fiber Optic Extender

Introduction

HE01S is an HDMI extender that can use Ethernet cable to send an HDMI signal for up to 50 meters. Its RX unit requires no power when the transmissions distance less than 30M. Its transmitter unit has EDID auto backup function that can save desired resolution and restore it whenever.

Features

- Resolution up to 1080p@60Hz.
- Signal extension up to 50M over CAT5e cable.
- No external power required at RX unit under a distance of 30M.

Installation view:

Transmission Distance

The transmission distance may vary by different HDMI equipment and cable quality.

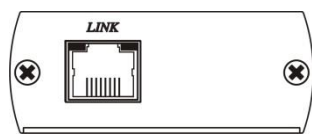| Cable	Resolution	Distance (HE01ST to HE01SR)
CAT5e	1080p	40M
CAT6	1080p	45M
CAT5e	1080i/ 720p	70M

RJ45 Define

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

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 -

Panel View

HE01ST
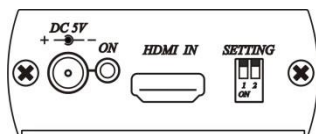
HE01SR
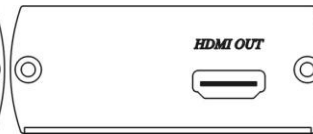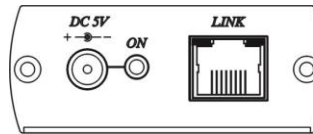
LED Indication

Model	LED	LED Color	Description
HE01ST	ON	BLUE ON	Power On
		Flash	TV EDID backup completed
	LINK	GREEN ON	Power or video transmitting
		YELLOW ON	No data input or video format unsupported
HE01SR	ON	BLUE ON	Using external power adapter
		GREEN ON	Power or video signal receiving
	LINK	YELLOW ON	No data input or signal too weak

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.

Copy 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.

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.

Caution

- The cabling must be away from any equipment with electromagnetic wave, such as microwave ovens, mobile phones, radio equipment, power lines.
- It's recommended using high quality CAT5e UTP or CAT6 UTP cable for link cable.
- If distance exceeds 30 meters, using CAT6 cables is recommend.
- DD NOT use STP cable, or it will caused no picture.

Specification

ITEM NO.	HE01ST	HE01SR
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	1 x RJ45
Video Output	1 x RJ45	1 x HDMI Type A
Power		
Power Supply	DC 5V 1A	DC 5V 1A
Power Consumption	600mA	400mA
Ambient Temperature		
Operation	0 to 55℃	
Storage	-20 to 85℃	
Humidity	up to 95%	
Physical Characteristics		
Dimensions	67 x 91 x 27mm	67 x 120 x 27mm
Weight	140g	175g

RoHS CE