



HDMI Extender

# User Manual

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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 transmission distance under 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.

## 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

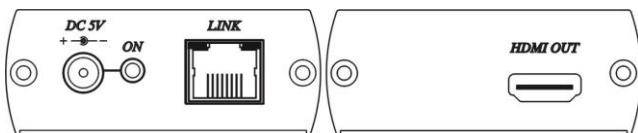
GREEN	ON	Sending power or video to receiver unit
YELLOW	ON	No data input or unsupported video format

## 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.

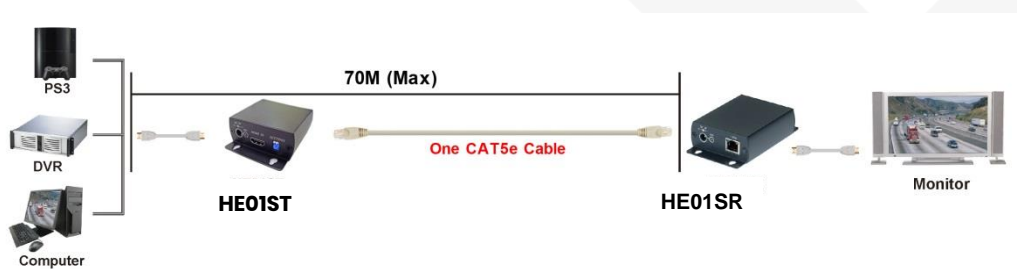
## HE01SR



## 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
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°C	
Storage	-20 to 85°C	
Humidity	up to 95%	
Physical Characteristics		
Dimensions	67 x 91 x 27mm	67 x 120 x 27mm
Weight	140g	175g