



HDMI Extender

User Manual

Model : HE01SI

HDMI & IR CAT5e Extender 1080p 40M



Introduction

HE01SI 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 extender transmits a 2-way IR signal from either TX or RX side. The Tx unit has a built-in EDID auto backup function that can save desired resolution and restore it whenever.

Features

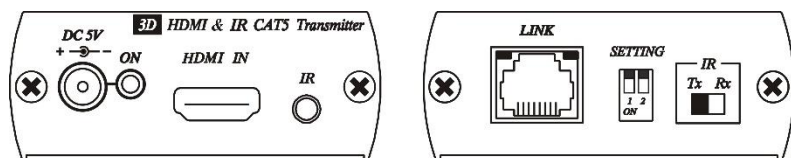
- Resolution up to 1080p@60Hz.
- Signal extension up to 70M over CAT5e cable.
- Supports IR extension, the signal from either TX or RX side.
- Built-in EDID auto backup function at RX unit.

Installation view



Panel View & Function

HE01SIT



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 ↓ , HE01SIT unplug the power.
2. HE01SIT connect to HDMI connector of TV for auto backup.
3. Plug the power for HE01SIT, TV EDID back up completed (Blue Power LED keep flash)
4. After complete TV EDID backup, HE01SIT power must be reset (unplug and plug) to activate the new EDID.

HE01SIT Transmitter Unit LED Indication

BLUE	ON	Power on
	Flash	TV EDID backup completed

RJ45 Connector LED

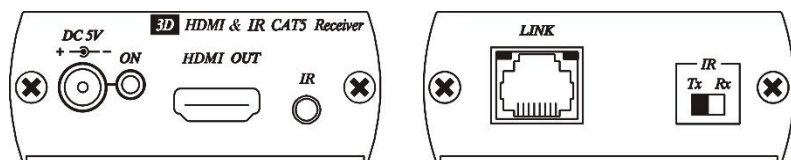
GREEN	ON	Sending power or video to receiver unit
YELLOW	ON	No data input or unsupported video format

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.

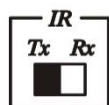
HE01SIR



HE01SIR 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

IR Switch Setting



1. When use BD/DVD remote controller (DVD at remote side) · HE01SIR IR switch move to RX and connect with Receiver cable; HE01SIT IR switch move to TX and connect with Emitter cable.

2. When use TV remote controller (TV at remote side), HE01SIT IR switch move to RX and connect with Receiver cable; HE01SIR IR switch move to TX and connect with Emitter cable.

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.

HE01SIT to HE01SIR	
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

1. The wiring must away from any equipment with electromagnetic wave, i.e.:
Mobile phone, microwave, radio equipment, fluorescent lamp, power lines.
2. If distance less 20meters and not using IR function, HE01SIR do not need external power adapter.
3. This device is not network device, do not connect with Network to avoid damage.

Specification

ITEM NO.	HE01SIT	HE01SIR
Support		
Compliance	HDMI 1.3, HDCP, 3D	
Max. Video Resolution	1080p@60Hz	
Max. Transmission Distance	60M at 1080i, 40M at 1080p	
IR Support	30-60KHz, ±30°, 5M	30-60KHz, ±55°, 5M
Ports & Interfaces		
Video Input	1 x HDMI Type A	1 x RJ45
Video Output	1 x RJ45	1 x HDMI Type A
IR Interface	1 x 3.5mm Phone Jack	1 x 3.5mm Phone Jack
Switch	1 x 2 Pin Dip Switch, 1 x Slide Switch	1 x Slide Switch
Power		
Power Supply	DC 5V 1A	DC 5V 1A
Power Consumption	420mA	180mA
Ambient Temperature		
Operation	0 to 55°C	
Storage	-20 to 85°C	
Humidity	up to 95%	
Physical Characteristics		
Dimensions	67 x 102 x 27mm	67 x 91 x 27mm
Weight	150g	140g