



HDMI Extender

User Manual

Model : HE01ERK

Passive HDMI CAT5e Extender



Introduction

HE01ERK 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 RX unit has a built-in HDMI connector that allows the receiver to directly connect to an HDMI display without any external power required.

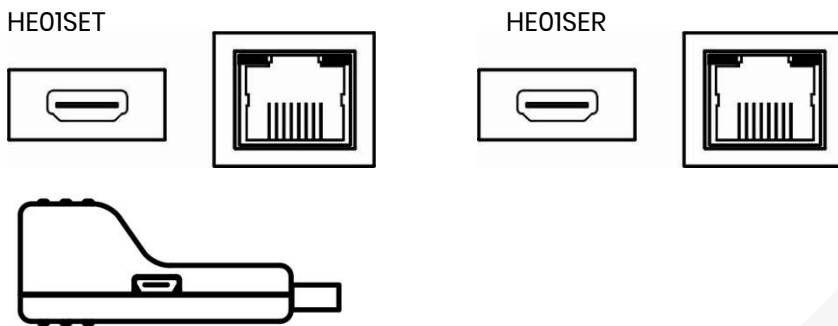
Features

- Supports HD-TVI, AHD, HDCVI, PAL, NTSC, SECAM video formats.
- Resolution up to 1080p@60Hz.
- Signal extension up to 70M.
- No external power required.
- Built-in micro USB port as a redundant power supply.

Installation



Panel View



Connect a 5V power adapter via built-in micro USB at HE01SET when the source doesn't provide enough power to the receiver.

LED Indication

LED	LED Color	Function
Power	Green ON/ OFF	Power ON/ OFF
N/A	Yellow	Reserve

Transmission Chart

Resolution	Cable	Distance
1920x1200	CAT5e/ CAT6	40M
1920x1080	CAT5e/ CAT6	40M
1280x1024	CAT5e	60M
1280x 720	CAT5e	70M
1024 x768	CAT5e	70M

Supported Resolution

- 1920x1200@60Hz
- 1920x1080@60Hz
- 1680x1050@60Hz
- 1600x1200@60Hz
- 1600x900@60Hz
- 1440x900@60Hz
- 1280x1024@60Hz
- 1280x960@60Hz
- 1280x800@60Hz
- 1280x720@60Hz
- 1024x768@60Hz
- 800x600@60Hz

RJ45 Define

Wire Color	Data
Orange-white	TMDS DATA2 +
Orange	TMDS DATA2 -
Green-white	TMDS CLOCK + / HDMI 5V
Blue	TMDS DATA1 +
Blue-white	TMDS DATA1 -
Green	TMDS CLOCK - / GND
Brown-white	TMDS DATA0 +
Brown	TMDS DATA0 -

Caution

- HDCP is not supported.
- All cables must keep away from any equipment with electromagnetic wave, i.e.: microwave, ovens, mobile phones, radio equipment, and high voltage power line.
- Working distance may vary by connected devices and cables.
- The cables must be straight through to avoid crosstalk interference.
- It is recommended using high quality CAT5e/6 UTP cable, when distance over 30M.
- It is NOT recommended using STP or flat cable, which may cause video loss.

- Do NOT connect with any network device to avoid any damage.

Package Includes

No	Item	Quantity
1	HE01SET (Transmitter)	x 1
2	HE01SER (Receiver)	x 1
3	Micro USB to DC plug cable	x 1

Specification

ITEM NO.	HE01SET	HE01SER
Support		
Compliance	HDMI 1.3	
Video Bandwidth	2.25 Gbps	
Max. Resolution	1920x1200@60hz	
Transmission Distance	40M@1920x1200, 70M@1280x720	
Input TMDS Video Signal	1.2 Vp-p	
Input DDC Signal	5 Vp-p (TTL)	
Ports & Interfaces		
Video Input	1 x HDMI Type A	1 x RJ45
Video Output	1 x RJ45	1 x HDMI Type A
Power		
Power Connector	1 x Micro USB	N/A
Power Supply	5V 1A (Optional)	
Ambient Temperature		
Operation	-10 to 65°C	
Storage	-20 to 85°C	
Humidity	Up to 85%	
Physical Characteristics		
Dimensions	57.5 × 24 × 20.2mm	
Weigh	20g	