Prestel

Prestel EHD-PLE

HDMI over Power Extender with one-way IR

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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1. Introduction

This power extender is based on H.265 standard solution for distribution 1 HD source to 3 HD displays simultaneously via power line transmission within the scope of one electricity meter, and supports one-way IR control. It offers high quality video and supports resolution up to 1080P@60Hz. In addition, one HDMI loop port of encoder is available for output. This power extender is designed special to transmit high definition video & audio within one electricity meter.

This power extender offers the most convenient solution for HDMI extension with long distance capability and doesn't need to connect CAT cable to transmission. It is the perfect solution for any application.

2. Features

☆ HDMI 1.3, HDCP 1.4 and DVI 1.0 compliant
☆ Supports HDMI HD source to HDMI HD display via power line transmission within the scope of one electricity meter
☆ With one-way IR control
☆ One HDMI loop out
☆ Video resolution up to 1080P@60Hz
☆ Audio format supports LPCM 2.0CH 32KHz/44.1KHz/48KHz
☆ End-to-end delays under 150ms
☆ Compact design for easy and flexible installation.

3. Package Contents

Qty	Item
1	HDMI over Power Extender (Encoder)
1	HDMI over Power Extender (Decoder)
1	IR Blaster cable (1.5 meters)
1	20~60KHz IR Receiver cable (1.5 meters)
2	AC 100~240V 50/60Hz Power cable
1	User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 1.3
HDCP Compliance	HDCP 1.4
Video Bandwidth	6.75Gbps
Video Resolution	1080p, 1080i, 720p, 720i, 480p, 480i, the maximum up to 1920×1080@60Hz The PC resolution is up to 1400×1050
Color Space	RGB/YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
HDMI Audio Formats	LPCM 2.0CH 32KHz/44.1KHz/48KHz
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connections	
Encoder	Inputs: 1x HDMI Type A [19-pin female] Outputs: 1x HDMI Type A [19-pin female] 1x IR OUT [3.5mm Stereo Mini-jack]
Decoder	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] Outputs: 1x HDMI Type A [19-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Encoder / Decoder: 135mm [W] x 96.5mm [D] x 29mm [H]
Weight	Encoder / Decoder: 405g
Power Supply	AC 100 - 240V 50/60Hz power cable
Power Consumption	Encoder: 3.4W, Decoder: 3.5W
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Resolution / Cable Length	1080P@60Hz - Feet / Meters
HDMI IN / OUT	42ft / 15M
The use of "Premium High Speed HDMI" cable is highly recommended.	

5. Operation Controls and Functions

5.1 Encoder Panel

Name	Function description
Power LED	Red LED indicates that the encoder is powered.
Link LED (Green)	■ Flicker intermittently three times: No pair. ■ Flicker quickly: Paired success.
RESET button	Press the button for 3 seconds will reset the encoder to factory default status.
AC/220V	Connect to 100~240V AC 50/60Hz power cable.
HDMI OUT	HDMI loop output for display.
HDMI IN	HDMI source input.
IR OUT	IR port output for control of the source device.

5.2 Decoder Panel

| Name	Function description
POWER LED	Red LED indicates that the decoder is powered.
LINK LED (Green)	■ Flicker slowly: No pair. ■ Flicker quickly: Paired success.
RESET button	■ Press quickly the button will copy the EDID of display device to source device. ■ Press the button for 3 seconds will reset the decoder to factory default status.
AC/220V	Connect to 100~240V AC 50/60Hz power cable.
HDMI OUT	HDMI output for display.
IR IN	IR port input to receiving the signal of IR remote.

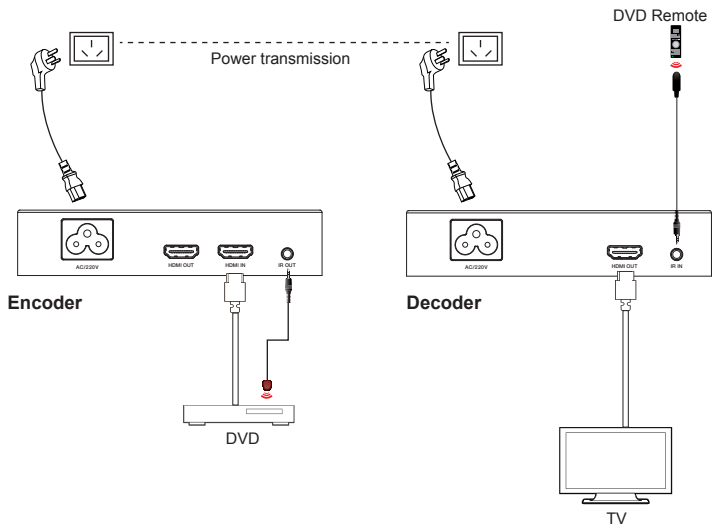## 5.3 IR Pin Definition

IR Receiver and Blaster pin's definition as below:

IR RECEIVER

IR BLASTER

IR Blaster

1 IR Blaster Signal
2 Power
3 NC

IR Receiver

1 IR Signal
2 Power
3 Grounding
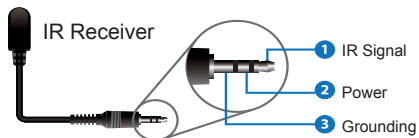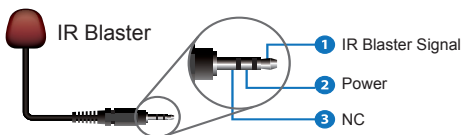
IR use example:

Note that IR remote sends signal distance for 0~5 meters / 0~8 meters, and angle is plus-minus 45 degrees / vertical direction .

6. Application Example

Electricity meter

Power transmission

Encoder

AC/220V   HDMI OUT   HDMI IN   IR OUT

TV

DVD

Decoder

TV

DVD remote

Decoder

TV

DVD remote

Decoder

TV

DVD remote