HDMI Extender (70m)

User Manual

VER 1.0

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.

Table of Contents

1. Introduction

This HDMI Extender can extend HDMI signal up to 230ft/70m for 1080p@60Hz resolution, and 131ft/40m for 4K30 resolution via a single CAT6/6a cable, which can achieve zero-delay, uncompressed long-distance transmission between the transmitter and receiver. This extender supports EDID copy function (you can choose remote EDID). It supports audio formats up to PCM7.1, Dolby True HD, DTS HD Master. This product supports PoC function. It can be widely used in multi-media conference halls, TV teaching and large-screen displays.

2. Features

☆ HDMI 1.4b and HDCP 1.4 compliant
☆ Support 10.2Gbps video bandwidth
☆ Video resolution is up to 4K2K@30Hz
☆ HDMI signal transmission distance can be extended up to 230ft/70m for 1080p@60Hz resolution, and 131ft/40m for 4K2K@30Hz resolution via a single CAT6/6a cable
☆ HDMI audio formats: PCM7.1, Dolby True HD, DTS HD Master
☆ Support bi-directional PoC function
☆ Support copying EDID from receiver display
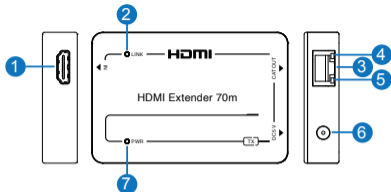☆ Compact design for easy and flexible installation

3. Package Contents

① 1 × HDMI Transmitter
   or/and
   1 × HDMI Receiver
② 1 × 5V/1A Power Supply (US Standard)
③ 1 × User Manual

4. Specifications

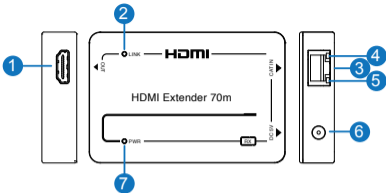| Technical	
HDMI Compliance	HDMI 1.4b
HDCP Compliance	HDCP 1.4
Video Bandwidth	10.2Gbps
Video Resolution	Up to 4K2K@30Hz
HDMI Audio Formats	LPCM 7.1CH, Dolby True HD, and DTS-HD Master
Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	8-bit
Transmission Distance	230ft / 70m (for 1080P@60Hz) over CAT 6/6a 131ft / 40m (for 4K2K@30Hz) over CAT 6/6a
ESD Protection	Human body model—±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter	Input: 1×HDMI IN [Type A, 19-pin female] Output: 1×CAT OUT [RJ45 connector]
Receiver	Input: 1×CAT IN [RJ45 connector] Output: 1×HDMI OUT [Type A, 19-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	90mm (W) × 60mm (D) × 16mm (H)
Weight	Transmitter: 46g, Receiver: 47g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	3.45W
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

5. Operation Controls and Functions

5.1 Transmitter Panel

No.	Name	Function Description
1	IN	HDMI signal input port for connecting the HDMI source device.
2	LINK LED	When the transmitter is connected to HDMI signal source, the green LINK LED will be on.
3	CAT OUT	TMDS signal output port, connecting to the CAT IN port on receiver.
4	Link State Indicator (Green)	• Illuminate: Transmitter and receiver are in good connection status. • Flash: Transmitter and receiver are in poor connection status. • Dark: Transmitter and receiver are not connected.
5	Data State Indicator (Yellow)	• Illuminate: HDMI signal with HDCP. • Flash: HDMI signal without HDCP. • Dark: No HDMI signal.
6	DC 5V	DC 5V power input port.
7	PWR LED	When the transmitter is powered on, the green Power LED will be on.

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No.	Name	Function Description
1	OUT	HDMI signal output port for connecting the HDMI display device.
2	LINK LED	When the receiver is connected to HDMI display source, the green LINK LED will be on.
3	CAT IN	TMDS signal input port, connecting to the CAT OUT port on receiver.
4	Link State Indicator (Green)	• Illuminate: Transmitter and receiver are in good connection status. • Flash: Transmitter and receiver are in poor connection status. • Dark: Transmitter and receiver are not connected.
5	Data State Indicator (Yellow)	• Illuminate: HDMI signal with HDCP. • Flash: HDMI signal without HDCP. • Dark: No HDMI signal.
6	DC 5V	DC 5V power input port.
7	PWR LED	When the receiver is powered on, the green Power LED will be on.

6. Application Example

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Transmitter

IN

CAT OUT   DC 5V

CAT6/6a Cable

Power Supply

DVD or Blu-ray Player

Receiver

HDMI OUT

CAT IN   DC 5V

UHDTV