

VALUE HDMI Extender via Cat.6A, 4K@30Hz, 40m

14.99.3465

User Manual



Important Safety Instructions:

- 1) To prevent electric shock, please ensure that all devices are properly grounded.
- 2) Do not place this device near or over a radiator or heat register, or exposed it to direct sunlight.
- 3) Place the device in a well-ventilated area, do not block any ventilation openings.
- 4) Do not expose this device to rain or place it near water. Any liquid that goes into the device may cause a failure, fire, or electric shock.
- 5) Never insert anything metallic into the open parts of the appliance. There is a risk of electric shock.
- 6) If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.
- 7) The device should be repaired only by a qualified technician.

I. Introduction

This is an HDMI point-to-point extender kit. it can realize zero-latency transmission. The 4K@30Hz HDMI signal can be extended by 40m through CAT6/6A/7 network cables. It supports HDMI loop out, IR passthrough, etc. This kit is a reliable, ultra-high-definition video transmission solution, which is widely used in security monitoring, home theater, broadcasting, training and other fields.

II. Features

1. Zero-latency transmission.
2. Extend 4K@30Hz HDMI signal up to 40m over Cat6/6A/7 cable.
3. Supports HDR10.
4. Supports EDID passthrough and auto downscaling.
5. Supports PoC Network Cable Power Supply, only TX Power Supply is Needed.
6. The transmitter supports HDMI loop out.
7. Supports IR passthrough.
8. Lightning protection, surge protection, ESD protection.
9. Plug and play.

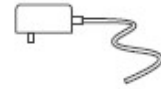
III. Package Contents



Transmitter



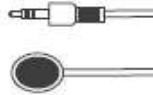
Receiver



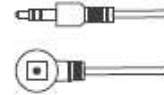
DC5V/2A



User manual



IR receiver extension cable



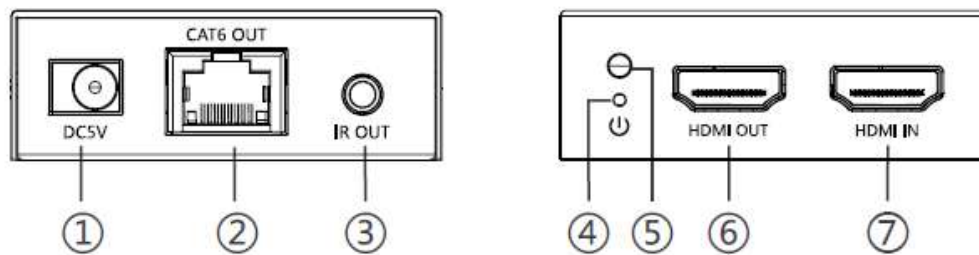
IR blaster extension cable

IV. Installation Requirements

Item	Description	Requirement
Signal source	Devices with HDMI port (PC, DVD, NVR, etc.)	HDMI cable ≤5m
Cable	CAT6/6A/7, following standard IEEE-568B	CAT6/6A/7≤40m
Display device	TVs, projectors, etc. with HDMI port	HDMI cable ≤5m

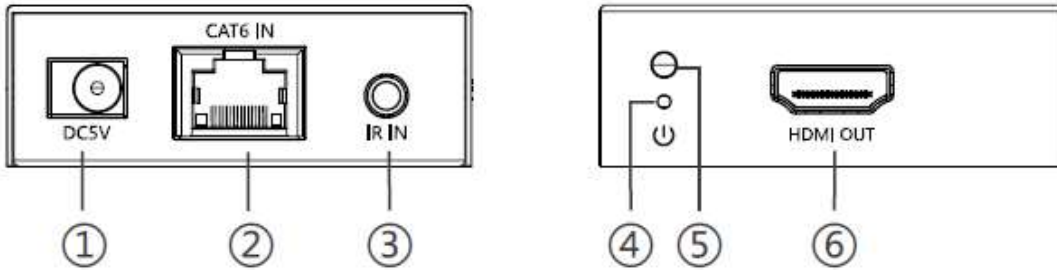
V. Panel Description

1. Transmitter



1	Power input	Connect with DC 5V power adapter
2	RJ45 Output	Connect with CAT6/6A/7 network cable
3	IR Out	Connect with IR blaster extension cable
4	Reset	Press to reset
5	Power Indicator	When there is power, the indicator will light solid blue
6	HDMI Output	Connect with local HDMI display device with HDMI cable
7	HDMI Input	Connect with HDMI source device with HDMI cable

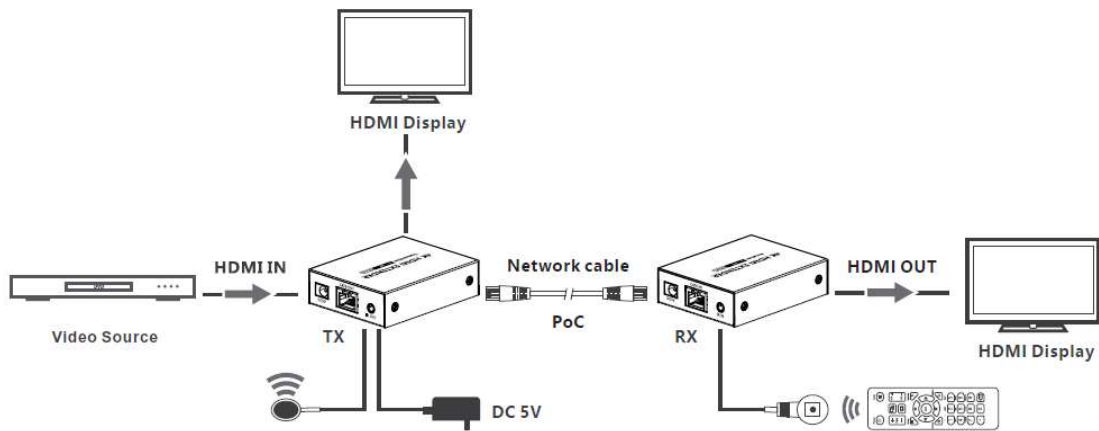
2. Receiver



1	Power input	Spare power port (powered by TX)
2	RJ45 Input	Connect with CAT6/6A/7 network cable
3	IR In	Connect with IR receiver extension cable
4	Reset	Press to reset
5	Power Indicator	When there is power, the indicator will light solid blue
6	HDMI Output	Connect with HDMI display device with HDMI cable

VI. Installation Procedures

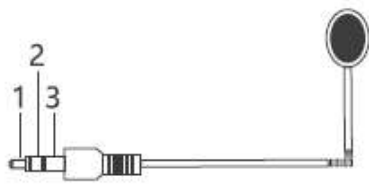
1. Connection Diagrams



2. Connection Instructions

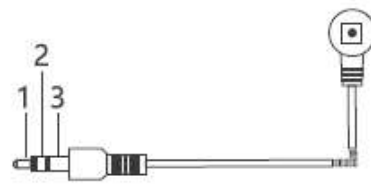
- 1) Connect the source device to the HDMI IN port of the transmitter with an HDMI cable, and connect the HDMI OUT port of the receiver to the display device with another HDMI cable.
- 2) Use a Cat6/6A/7 cable to connect the RJ45 port of the transmitter and receiver.
- 3) If using HDMI loop out, connect the display device to the HDMI OUT port of the transmitter.
- 4) If using IR passthrough, the IR blaster extension cable should plug in the IR OUT port of the transmitter, the IR receiver extension cable should plug in the IR IN port of the receiver.
- 5) Plug the power supply into the devices to get started.

3. IR User Guide



IR blaster

1. Power
2. IR Signal
3. Null



IR receiver

1. Power
2. IR Signal
3. Grounding

- 1) The IR blaster extension cable should be plugged in the IR OUT port of the transmitter or receiver. The IR receiver extension cable should be plugged in the IR IN port of the transmitter or receiver.
- 2) The emitter of the IR blaster extension cable should be as close as possible to the IR receiving window of the source device.
- 3) Point the remote control at the receiving head of the IR receiver extension cable to operate.

VII. FAQ

Q: The devices are connected correctly, but why is there no image displayed?

A:

- 1) Please make sure that the HDMI cable meets the transmission requirements (e.g. 4K HDMI cable).
- 2) Please check if the network cable is connected well.
- 3) Restart the transmitter or receiver by pressing the reset button.

Q: Why does the display occasionally have a black screen?

A:

- 1) Check if the length of the cable is within the specified range.
- 2) Reset the transmitter or receiver to re-built the connection.

Q: Why is the display color unusual or why is there no sound?

A:

- 1) Reset the transmitter or receiver to re-built the connection.
- 2) Check if the HDMI cables are connected well.
- 3) Reconnect the network cable.

VIII. Technical Parameters

Item	Transmitter	Receiver
Video		
Input interface	1x HDMI Type A Female	1x RJ45 Female
Output interface	1x HDMI Type A Female 1x RJ45 Female	1x HDMI Type A Female
HDMI Length	≤5m	≤5m
Maximum transfer rate	18Gbps	
Maximum transmission bandwidth	600MHz	
EDID pass-through	Yes	
Compatibility	HDMI 2.0 (Deep color, 4K, HDR, YUV4:4:4)	
	HDCP 2.2, HDCP1.4	
Transmission distance	4K transmission distance 40m 1080p transmission distance 70m	
Audio		
Input interface	1x HDMI Type A Female	N/A
Output interface	1x HDMI Type A Female	1x HDMI Type A Female
Audio formats	LPCM/DTS-HD/DTS-Audio/Dolby Digital 5.1CH/Dolby Atmos	
Command Signal		
IR interface	1x 3.5mm IR OUT Female	1x 3.5mm IR IN Female
Receiving range	≤5m	
Infrared frequency	20KHz - 60KHz	
Power		
Power Supply	DC5V/2A	PoC (Powered by TX)
Power Consumption	TX+RX < 5.5W	

Operating Environment	
Working temperature	-20°C - 60°C
Storage temperature	-30°C - 70°C
Humidity	0 - 90%RH (No condensation)
Physical Properties	
Housing	Metal
Weight	TX: 130g RX: 130g
Color	Black
Dimensions	75.0(L)*60.0(W)*21.0(H)mm
Protection	ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2
	Lightning protection, Surge protection
Certifications	CE/RoHs

Disclaimer

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