User Manual

HDMI EXTENDER

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

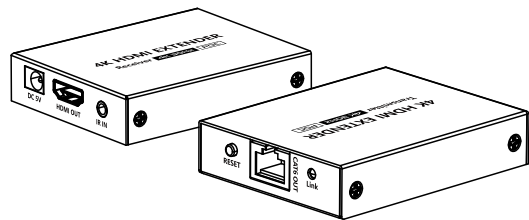## • Important Safety Notice

1. Please distinguish the transmitter and receiver before installation.
2. Do not disassemble the machine to repair the product during the working process to avoid electric shock.
3. Please cut off the power before installation. Live installation may damage the equipment.
4. Do not expose the devices to rain, moisture and liquid.
5. Use a 5V/2A DC adapter only. Make sure the specification matched if using 3rd party DC adapters.

• Introduction

This HDMI Extender includes a transmitter unit and a receiver unit, allows the HDMI signal to be transmitted up to 70 meters at 1080p resolution using a Cat6/6A/7 network cable. It adopts a point-to-point connection configuration, supports IR pass-back. It is perfect for outdoor advertising, monitor system, home entertainment, conference, etc.

• Features

1. Zero latency.
2. Support up to 4K@30Hz resolution.
3. Support CAT6/6A/7 network cables, 1080p@60Hz transmission distance is up to 70meters, 4K@30Hz transmission distance is up to 40 meters.
4. Support IR pass-back function (20~60KHz).
5. Support HDR10.
6. Support EDID passthrough.
7. Support PoC network cable power supply, only TX power supply is needed.

• Package Contents

Transmitter unit x1pc

Receiver unit x1pc

DC5V/2A x1pc

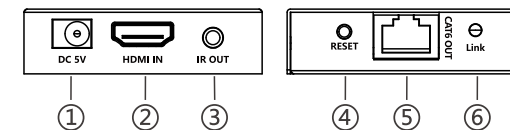User manual x1pc

IR blaster extension cable x1pc

IR receiver extension cable x1pc

• Installation Requirements

1. HDMI source device (compute graphics card, DVD, PS4, HD monitoring equipment etc.)
2. HDMI display device like SDTV, HDTV, projector with HDMI port.
3. UTP/STP CAT6/6A/7 cable, follow standard IEEE-568B, it is recommended to select a network cable with less loss and crosstalk.
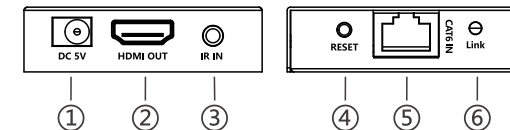

• Interfaces

1. Transmitter (TX)

① Power input	Connect to the 5V/2A DC power adapter.
② HDMI input	Connect to a HDMI source device.
③ IR out	Connect the IR blaster extension cable, please keep the infrared transmitter as close as possible to the signal source device when using.
④ Reset button	Press the button to restart the device.
⑤ RJ45 signal output	Output modulated HDMI signal.
⑥ Signal Indicator	No HDMI signal is transmitted, the indicator flashes. HDMI signal is transmitted, the indicator stays on.

2. Receiver (RX)

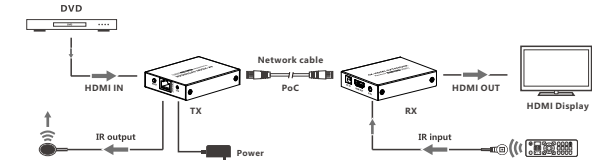| ①	Power input	PoC, only TX power supply is needed.
②	HDMI output	Connect to a HDMI display device.
③	IR in	Connect the IR receiver extension cable to ensure that the remote control used is within the range of the IR receiving device.
④	Reset button	Press the button to restart the device.
⑤	RJ45 signal input	Input modulated HDMI signal.
⑥	Signal Indicator	No HDMI signal is transmitted, the indicator flashes. HDMI signal is transmitted, the indicator stays on.

• Installation Procedures

1. The network cable should follow the standard of IEEE-568B. It is recommended to select a network cable with less loss and crosstalk.

1-Orange/white   2-Orange   3-Green/white

4-Blue   5-Blue/white   6-Green

7-Brown/white   8-Brown

2. Connection

3. Connection instruction

1) Connect the HDMI port of the source device to the HDMI IN port of the transmitter via an HDMI cable.

2) Connect the CAT6 OUT port of the transmitter and the CAT6 IN port of the receiver via a network cable.

3) Connect the HDMI port of the display device to the HDMI OUT port of the receiver via an HDMI cable.

4) Connect the IR blaster extension cable to the IR OUT port of the transmitter, connect the IR receiver extension cable to the IR IN port of the receiver.

5) Plug the power into the devices to get started.

• FAQ

Q：Why there is no image/image or sound is not played smoothly?

A：Press the "RESET" button of the receiver to restart the device. Reconnect the devices with a shorter network cable

Q：Why does the signal indicator "LINK" always flashes?

A：1）Check whether the network cable is uses IEEE-568B wiring standards.

2）Check whether the source device and the transmitter are connected well.

3）Reset the transmitter or receiver and connect it again.

Q：Why does the receiver's signal indicator "LINK" stays on but there is no image output?

A：1）Press the "RESET" button of the receiver to restart the device.

2）Check whether the display device and the receiver are connected well.

3）Reconnect the network cable or re-power the receiver.

• Specification

Items		Specification
Power Supply	Voltage/Current	DC5V/2A
	Power consumption	TX+RX＜8W
HDMI Performance And Interface	HDMI compliance	HDMI 1.4
	HDCP compliance	HDCP 1.4
	HDMI resolution	800x600、1024x768、1280x720、1280x960、1366x768、1440x900、1680x1050、1920x1080、480i@60Hz、480p@60Hz、576i@50Hz、576p@50Hz、720p@50/60Hz、1080i@50/60Hz、1080p@24/25/30/50/60Hz、3840x2160@24/25/30Hz
	Audio formats	DTS、DTS-HD、PCM、LPCM
	HDR	Support
	EDID through	Support
	IR Pass-back	Frequency Range：20~60KHz
	Input and output TMDS signal	0.7~1.2Vp-p(TMDS)
	Input and output DDC signal	5Vp-p(TTL)
Transmission Distance	Cat6/6A/7	1080p@60Hz transmission 70 meters 4K@30Hz transmission 40 meters
Protection Level	Electrostatic protection of the whole machine	Implementation of the standard: IEC61000-4-2 1a Contact discharge level 2 （±4KV) 1b Air discharge level 3 (±8KV)
Operating Environment	Working temperature	-20~60℃
	Storage temperature	-30~70℃
	Humidity (no condensation)	0~90%RH
Body Properties	Dimension	75.0(L) x 60.0(W) x 16.5(H) mm
	Weight	TX:127g RX:127g
	Color	Black

Disclaimer

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