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HDMI EXTENDER Point to Point Extender User Manual

Contents

Important Safety Notice

1. Do not mix up HDMI to RJ45 transmitter and RJ45 to HDMI receiver before installation.
2. Do not hot plug when it is working.
3. Use DC5V/2A power supply only. Make sure specification matched if using 3rd party adapters.
4. Static electricity will cause damage of the device, please do ESD protection when using the device.

Introduction

This HDMI Extender includes a transmitter unit and a receiver unit, allows HDMI signal to be transmitted up to 70 meters at 4K resolution
using a CAT6/6A/7 network cable. It is perfect for outdoor advertising, video clips, monitor system, home entertainment, and conference, etc.

Features

1. Zero latency.
2. 4K@60Hz HDMI signal can be transmitted 70 meters through a CAT6/6A/7 network cable.
3. Supports up to 10 receivers in cascade, auto adapt to display resolution.
4. The receiver can extract the digital audio from the transmitter through the S/PDIF port.
5. Supports audio formats (Dolby TrueHD 7.1CH/Dolby Digital 5.1CH).
6. Supports HDR(YUV4:4:4), EDID passback.
7. Transmitter support one HDMI loop-out.
8. Support bi-directional IR passback function (20 60KHz), cascade when 10 receiver available.
9. Anti-lightning, anti-surge, anti-static protection.

Package Contents

Transmitter unit x1pc   Receiver unit x1pc   DC5V/2A x2pcs

User manual x1pc   IR blaster extension cable x1pc   IR receiver extension cable x1pc

Mounting brackets x8pcs   Screw x18pcs

Installation Requirements

1. HDMI source device (compute graphics card, DVD, PS3,)HD monitoring equipment etc.
2. HDMI display device like SDTV, HDTV, projector with HDMI port.
3. UTP/STP CAT6/CAT6A/CAT7 cable. Follow standard IEEE-568B, It is recommended to select a network cable with less loss and crosstalk.
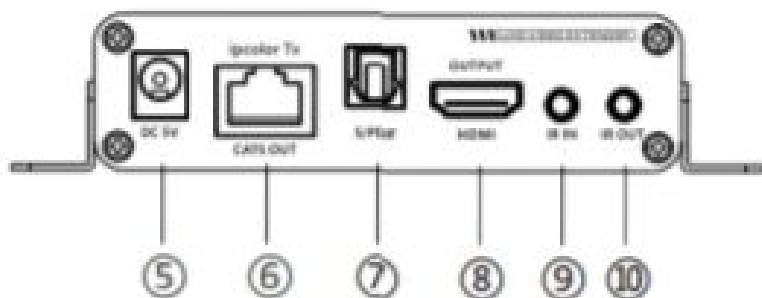
Interfaces

1. Transmitter (TX)
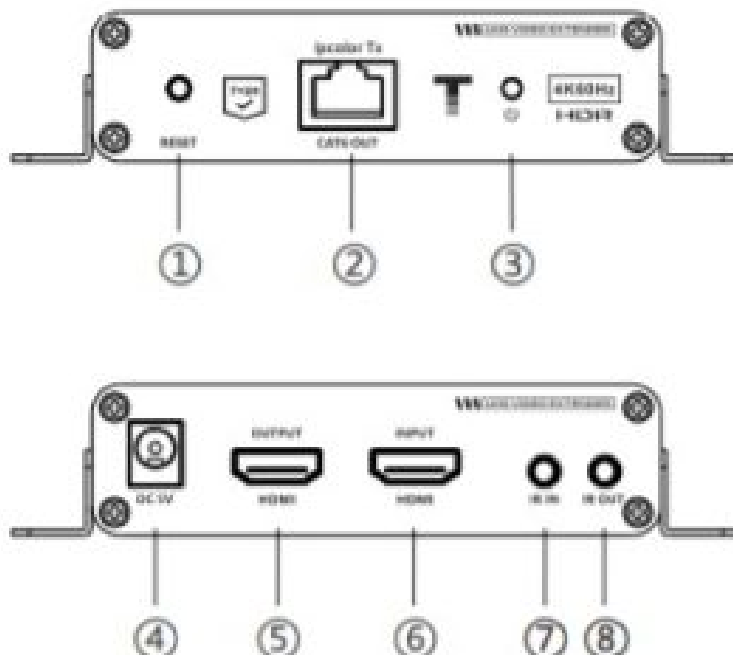
①	Reset button	Press to restart the device
②	RJ45 signal output	Connect with network cable
③	Power/Signal indicator	When there is power and no HDMI signal, the indicator will flash, when there is HDMI signal, the indicator will light solid blue
④	DC5V input	Connect with DC5V/2A power adapter
⑤	HDMI output	Connect with HDMI display device
⑥	HDMI input	
⑦	IR in	Connect with IR receiver extension cable, please make sure the remote control used is within the effective range
⑧	IR out	Connect with IR blaster extension cable, please get closer to the source device while using

1Receiver (RX)
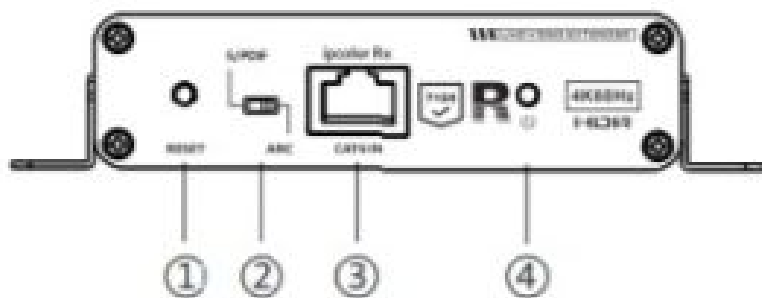
①	Reset button	Press to restart the device
②	Audio switch	Choose to decode audio from HDMI or ARC output from fiber optic interface
③	RJ45 signal input	Connect with network cable
④	Power/Signal indicator	When there is power and no HDMI signal, the indicator will flash, when there is HDMI signal, the indicator will light solid blue
⑤	DC5V input	Connect with DC5V/2A power adapter

|		
⑥	RJ45 signal output	Connect with network cable
⑦	S/PDIF out	Output digital audio signal.
⑧	HDMI output	Connect with HDMI display device
⑨	IR in	Connect with IR receiver extension cable, please make sure the remote control used is within the effective range
⑩	IR out	Connect with IR blaster extension cable, please get closer to the source device while using

Disclaimer

The product name and brand name may be registered trademark of related manufactures. ™ and ® may be omitted on the user manual.
The pictures in this user manual are just for reference. The terms HDMI,
HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

Installation Procedures

1. Connection one to one
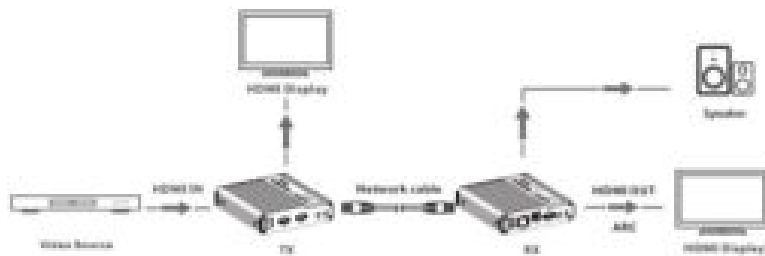
one to many :
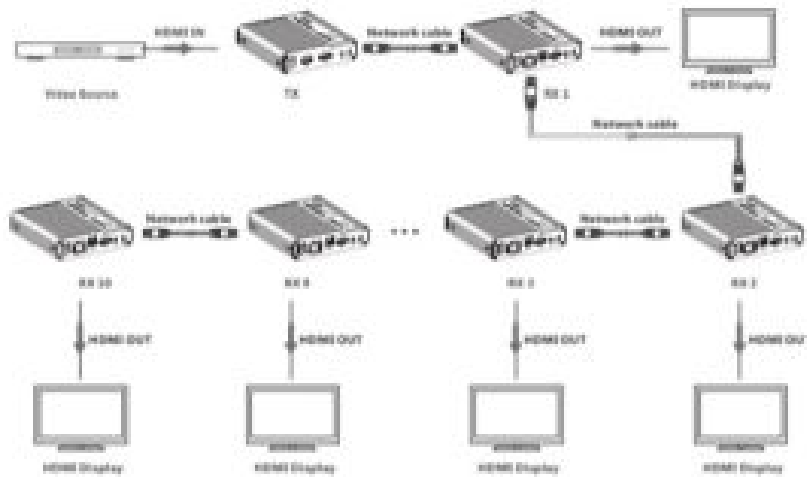
Follow the standard of IEEE-568B, It is recommended to select a network cable with less loss and crosstalk.

1. Orange/white
2. Orange
3. Green/white
4. Blue
5. Blue/white
6. Green
7. Brown/white
8. Brown

2. Connection instruction

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. Connect the CAT out port of the transmitter and the CAT in port of the receiver via a network cable (CAT6/CAT6A/CAT7). If cascading is used, connect the CAT out port of the previous receiver to the CAT in port of the next receiver.
3. If using HDMI loop out, connect the display device to the HDMI OUT port of the transmitter.
4. Plug the power supply into the device to get started.

[NOTE]: It is recommended to use a length range within 2~70m network cable. If the cable is too short, there may be no display output

because the signal is too strong. If the cable is too long, the output may be with poor quality.

3. IR User Guide

1. IR blaster extension cable should plug in the IR OUT port of the transmitter and receiver, IR receiver extension cable should plug in the IR IN port of the transmitter and 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. Face the receiving head of the IR receiver extension cable to the user for convenient remote control.

FAQ

Q: There is no output on screen when all connections are correct?

A: 1) Please make sure the HDMI cables supports 4K×2K if the output signal from the source device is 4K×2K resolution.
2) Please check and make sure the network cable insert to the RJ45 port well.
3) Restart the transmitter or receiver by pressing the reset button.

Q: Black screen happened on the display/monitor?

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

Q: The display shows unusual color or 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.

Specification

Items		Specification
		DC5V/2A
		TX 4W RX 4W
		HDMI 2.0

		HDCP 2.2
		480i@60Hz 480p@60Hz 576i@50Hz 576p@50Hz 720p@50/60Hz 1080i@50/60Hz 1080p@50/60Hz 3840×2160@24/25/30/50/60Hz 4096×2160@24/25Hz 1280×960 1280×800 1280×768 1680×1050 1360×768 1366×768 1600×900 1024×768 800×600
		LPCM/DTS-HD/DTS-Audio/Dolby TrueHD 7.1CH/ Dolby Digital 5.1CH
		0.7~1.2Vp-p(TMDS)
Transmission Distance	CAT6/6A/7	≤70m

		1a Contact discharge level 3
		1b Air discharge level 3 Implementation of the standard: IEC61000-4-2
		-20~60℃
		-30~70℃
		0 90%RH
		106.0(L) x 99.0(W) x 26.2(H)mm
		TX: 210g RX:210g

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