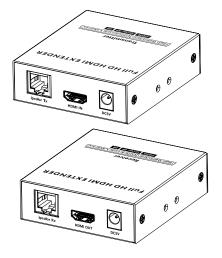
User Manual

Full HD HDMI over IP EXTENDER





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, place the device in a well-ventilated area, do not block any ventilation openings.
- 3. 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.
- 4. Do not place the device on an uneven or unstable surface, the device may fall resulting in a malfunction.
- 5. Never insert anything metallic into the open parts of this device, this may cause a danger of electric shock.
- 6. If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.

Introduction

This is an HDMI over IP extender kit, including a transmitter and a receiver. With this device, HDMI signals can be transmitted uncompressed and lowlatency over Cat6/6A/7 cable at 1080p@60Hz resolution. The transmission distance is up to 150 meters. This HDMI extender kit has features including IR passthrough. It supports point-to-point connection or one-to-many connection through gigabit switch, and cascading of switches is also supported. This extender kit is a reliable video transmission and distribution solution which can be widely used in security monitoring, rail transit, broadcasting, smart cities, home theatre and other fields.

• Features

cable.

cascade.

5. Support HDR10.

low-latency transmission.

backward compatible.

6. Support EDID Passback.

7. Support IR passthrough.

• Package Contents

Transmitter x1

IR receiver extensio

cable x1

8. Lightning protection, surge protection, ESD protection.

1. Adopting ipcolor PIXEL technology can realize uncompressed and

2. Support up to 1080p@60Hz resolution, including 1920x1200/1920x1080,

3. Video signals can travel up to 150 meters over CAT6 or higher network

4. Support one-to-many connection through the gigabit switch, or switch





DC5V/1A x2





Receiver x1

blaster extensio

cable x1



Mounting ear x4



Contract of Contra



Screw x10

User manual x1

Item Signal source device

Cable

Display device

Network switch

Installation Requirements

Description	Requirement
PC, DVD, NVR, etc. with HDMI port	HDMI cable≤5m
CAT6/6A/7, following standard IEEE-568B	CAT6/6A/7≤150m
TV, projector, LED screen, etc. with HDMI port	HDMI cable≤5m
The switch(es) is required for one- to-many and switch cascading connections	Gigabit switch

Panel Description

1. Transmitter

	⊖ ⊖ ∪ ○ ROUT 1 3 2	Image: Big condition Image: Big conditing conditing condition Image: Big condition	
1	Power indicator (blue)	 Light off: No power supply Steady on: The power is on Flash: The factory settings have been restored 	
2	Data transmission indicator (orange)	 Light off: The transmitter and the receiver have not established a connection Slow flash (every 1 second): The transmitter and the receiver are connected but no video data transmission Quick flash (every 200ms): The video signal is connecting Steady on: The video data is transmitting 	
3	IROUT	Connect with IR blaster extension cable	
4	RESET	 Press to restart Press and hold for 5 seconds to restore the factory settings, and then let go when the power indicator flashes 	
5	Ipcolor Tx (RJ45 port)	Connect with the network cable	
6	HDMIIN	Connect with HDMI source device	
7	DC5V	Connect with DC 5V/1A power adapter	

2. Receiver 99 0 Ο UΟ RESET ipcolor Rx HDM OUT DC5V RIN 1) Light off: No power supply Power indicator 2) Steady on: The power is on (blue) 3) Flash: The factory settings have been restored 1) Light off: The transmitter and the receiver have not established a connection Data transmission 2) **Slow flash** (every 1 second): The transmitter indicator (orange) and the receiver are connected but no video data transmission 3) **Steady on**: The video data is transmitting ③ IR IN Connect with IR receiver extension cable 1) Press to restart 2) Press and hold for 5 seconds to restore the ④ RESET factory settings, and then let go when the power indicator flashes

Connect with the network cable

Connect with HDMI display device

Connect with DC 5V/1A power adapter

ipcolor Rx

⁽⁵⁾ (RJ45 port)

6 HDMIOUT

⑦ DC5V

• Installation Procedures 1. How to make a network cable



Follow the standard of IEEE-568B:

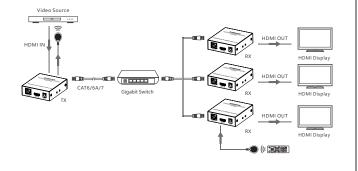
1-white and orange2-orange3-white and green4-blue5-white and blue6-green7-white and brown8-brown

2. Connection Diagrams

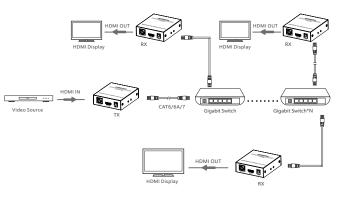
2.1 One-to-one connection:



2.2 One-to-many connection (through gigabit switch):

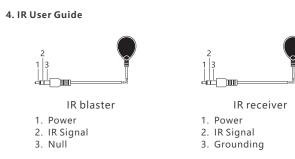


2.3 One-to-many connection (gigabit switch cascading):



3. 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) If it's one-to-one connection, then use a network cable to connect the RJ45 port of the transmitter and receiver. If it is one-to-many connection, then use the gigabit switch as a bridge to connect the transmitter and the receivers with the network cables respectively.
 3) Plug the power supply into the devices to get started.



1) IR blaster extension cable should plug in the IR OUT port of the transmitter, IR receiver extension cable should plug in the IR IN port of the 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

Point the remote control at the receiving head of the IR rece extension cable to operate.

• FAQ

Q: Why the data transmission indicator is off?

1) Please check whether all equipment is powered on and the network cable is connected properly.

2) Try to change a network cable to connect.

Q: Why is the status indicator has been flashing slowly?

1) Please check whether there is HDMI signal input for the TX.

 Try to connect the signal source directly to the display device, or change the signal source and HDMI cable and test again.

Q: Why is A: 1) Check RX is w 2) The let 3) Press t

Technic

ltem Video Sign Input inter

Output int

HDMI cabl

Compatibi

Resolution

Connectio

Transmiss distance

Q: Why is the output image unstable?

- 1) Check whether the length of the network cable connected from TX to RX is within the specified range.
- 2) The length of HDMI cable is recommended to be \leq 5 meters.

3) Press the "reset" button on TX and RX to restart and reconnect.

Technical Parameters

	Transmitter	Receiver	
al			
erface	1x HDMI	1x RJ45	
terface	1x RJ45	1x HDMI	
le	≤5m	≤5m	
oility	HDMI 1.4 (HDR10)		
mity	HDCP 1.4		
ns	1080p@24/25/30/50/60Hz, 720p@50/60Hz, 1024x768@ 60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60H, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1200@60Hz, 480P@60Hz, 576P@ 50Hz, 1400x1050@60Hz, 1366x768@60Hz, 1360x768@60Hz, 1280x768@60Hz		
on types	One-to-one connection One-to-many connection Switch cascading		
sion	CAT6/6A/7≤150m		

Transmission latency	16ms-33ms		
Audio Signal	Audio Signal		
Input interface	1x HDMI	1x RJ45	
Output interface	1x RJ45	1x HDMI	
HDMI out	DTS-Audio/Dolby Digital 5.1/	/LPCM2.0	
Audio sampling rate	32kHz, 44.1kHz, 48kHz, 88kHz, 96kHz, 176kHz, 192kHz		
Audio bit depth	16bit, 24bit		
Command Signal			
IR interface	1x 3.5mm IR OUT	1x 3.5mm IR IN	
IR receiving range	≤5m		
IR frequency	20kHz~60kHz		
Power	wer		
Power supply	DC5V/1A	DC5V/1A	
Power consumption	< 4W	< 4W	
Operating Environ	perating Environment		
Working temperature	-20°C~60°C		
Storage temperature	-30°C~70°C		
Humidity	0~90%RH (no condensation)		
Physical Properties	5		
Housing	Iron		
Weight	TX: 157g	RX: 157g	
Color	Black		

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Dimensions	85(L)*76(W)*25(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

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