



## **USER MANUAL**

---

# **200M HDMI KVM IP Extender**

**Enjoy the vivid world**

## Introduction:

200M HDMI IP Extender is based on TCP/IP standard. It transmits your HD display with the high resolution up to 200 meters away from your DVD or computer source by using one CAT5e/6 cable. At the same time, it's convenient to transmit HDMI audio and video source by point-to-point mode, point-to-multipoint, multipoint-to-multipoint mode and cascade connection mode.



## Features:

- \* Support HDCP1.4
- \* Decoding Mode MJPEG
- \* Support point-to-point mode, one point-to-multi point mode and cascade connection mode.
- \* 802.3 Ethernet standard.
- \* Support IR remote control
- \* Support USB mouse and keyboard extension.
- \* The design of pure hardware, plug and play, no need for additional software.

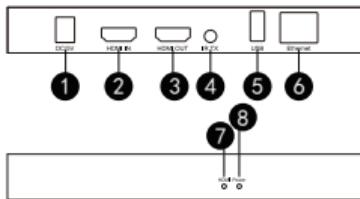
## Specifications:

Resolutions .....	480p,720p,1080p
Audio .....	Sample rate:32kHz,44.1kHz and 48kHz code
IR remote control .....	38 KHz;NEC
Power adapter .....	DC:5V/1A
The Max Power consumption .....	HDMI sender:3W    HDMI receiver:3W
Size(L-W-H) .....	163*87*24mm

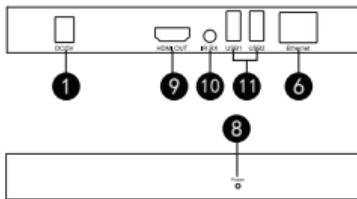
Weight ..... 474g x 2  
Operating Temperature/Humidity ..... 0°C-45°C/10%-80%RH(no condensation)  
Storage Temperature/Humidity ..... -10°C-70°C/5%-90%RH(no condensation)

## Physical interface diagram:

HDMI Transmitter



HDMI Receiver



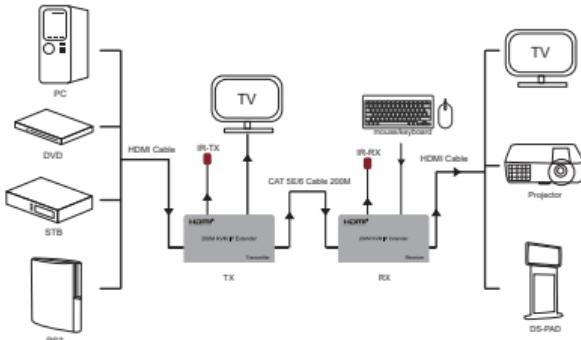
- 1: DC/5V --- Power port;
- 2: HDMI IN --- HDMI input ,connect HDMI signal source;
- 3: HDMI OUT --- Loop output, connect HDMI display device;
- 4: IR TX --- Connect IR transmitter;
- 5: USB --- USB output, connect computer;
- 6: Ethernet --- Network interface by cat5e/6;
- 7: HDMI --- Signal source input indicator light;
- 8: Power --- Power indicator light;
- 9: HDMI OUT --- HDMI output, connect HDMI display device;
- 10: IR RX --- Connect IR receiver;
- 11: USB1-2 --- USB input,mouse/keyboard input;

## Connection and operation:

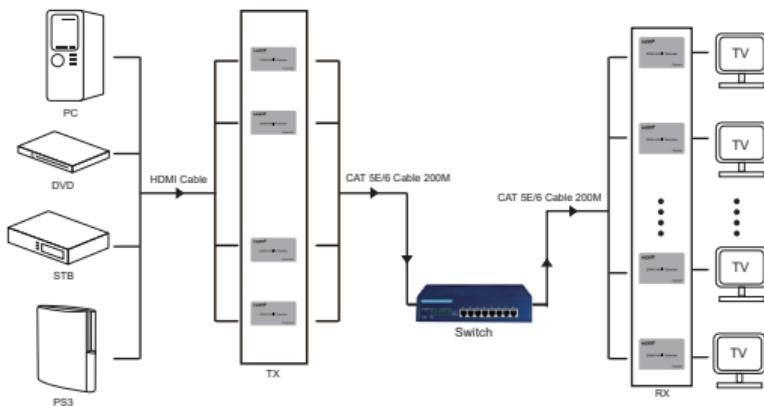
- 1) Connect the HDMI source (such as DVD, PS3, STB ) to the "HDMI IN" of transmitter by HDMI cable.
- 2) Connect the "HDMI out" of Receiver to HDTV display by HDMI cable.
- 3) Connect the Transmitter and Receiver with one cat5e/6 cable (recommend).the furthest distance is 200M.
- 4) Connect the "IR receiver "into "IR-RX" port on receiver, and "IR transmitter " into the "IR-TX" on transmitter, and make sure the IR transmitter aim at IR port of the source
- 6) Connect the 5V Power supply to the device and power on the video transmission device. When RX and TX are connected through the network cable, one indicator blinks. When a signal is connected, one indicator on the network port lights up.

# Application diagrams:

Point to point application



Multipoint to multipoint application



Note: One-to-many and many-to-many need to pass through the switch, and the transmission distance through the switch is 200 meters.

- 1) TX-IP-192.168.1.100 When the switch is used in one-to-many mode, the RX board automatically generates a new IP address. The TX-IP remains unchanged.
- 2) Change the IP address through the web page if you are connecting many to many. Ensure that RX-IP is 8 more than TX-IP and cannot be used directly.
- 3) One-to-one, one-to-many use, do not set TX/RX-IP on the board.

# Application diagrams

HDMI 200M extender over IP is used in audio-visual conference, command and control center, ticketing platform, home theater, multi-media teaching, conference system and so on.



audio-visual conference



command and control center



home theater

## The Package contents :

1. Transmitter	1PC	4. User's Manual	1PC
2. Receiver	1PC	5. Narrowband infrared	1PC
3. 5V Power adapter	2PCS	6. IR transmitter	1PC

## IP settings: (multipoint-to-multipoint Settings required)

1. Connect the Transmitter and Receiver with one cat5e/6 cable.
2. Setting the IP address of the computer.

Internet Protocol Version 4(TCP/IPv4)

### General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically  
 Use the following IP address:

IP address: 192 . 168 . 1 . 216

Subnet mask: 255 . 255 . 255 . 0

Default gateway: 192 . 168 . 1 . 1

3. Open the computer web browser, TX use 192.168.1.200:9999 login:  
(RX IP address according to the actual input, RX board not connect cables will display in the display IP RX board.)

Note: If the page cannot enter correctly, please check whether the colon input method is correct (Should be english input method).

The default IP of extender is:

TX:192.168.1.200

RX is generated randomly

## Info

Name	<input type="text" value="RX"/>	Manufacture	XYZ
Serial No.	<input type="text" value="00000000"/>	Model	LKDCAA
		HW Version	0.0.0.0
		FW Version	0.0.0.0

## Status

	Status	Resolution	Frame Rate	Color Space
HDMI RX	Disable	--	--	--
HDMI TX	Unkonwn	--	--	--

	Status	From	To	Group
VideoStream	Disable	--	--	--
		-	-	-
		-	-	-

## Ethernet

DHCP

MAC	<input type="text" value="00:0c:29:c4:9f:d4"/>
IP	<input type="text" value="192.168.1.215"/>
Gate	<input type="text" value="192.168.1.1"/>
Mask	<input type="text" value="255.255.255.0"/>

Note: If you cannot enter the page correctly, please enter the command ping 192.168.1.208; If Ping can pass, do the next step. If ping can not pass, check the network cable connection, board IP, and computer IP setting.

Keyboard WIN+R key, Call-out the Run command box. Enter the command and click confirm.  
(ping +product IP address).

Both TX and RX need to change the IP address, just change the last number.

E. g.: 1) 192.168.1.100. 2) 192.168.1.101. 3) 192.168.1.102.

The IP for RX needs to be configured as TX IP +8;

E. g.: TX: 192.168.1.100 RX: 192.168.1.108

## Ethernet

DHCP

OFF

00	: 0c	: 29	: c4	: 9f	: d4
----	------	------	------	------	------

MAC

192	. 168	. 1	215
192	. 168	. 1	1
255	. 255	. 255	0

IP

Gate

Mask

Transmit Mode: Choose 'MULTI\_TO\_MULTI'

## Transmit Mode

Transmit Mode

MULTI\_TO\_MULTI

Note: Click Submit (Commit) for each setting.