

# HDMI Over IP Extender Manual

## Appearance

HDMI Over IP Extender is a standard network data stream that can encode and compress HDMI audio and video high-definition signals in H.264 format and then transfer it to the local area network. It can also be equipped with KVM function, infrared return, Independent audio input, audio separation and other remote control functions, truly realize the transmission of high-definition video and audio signals in a local area network. The transmission distance can reach 200M using a single CAT6 network cable, and the optical transmission mode can reach 20KM. This solution is the first in the industry. A highly advantageous audio and video transmission program, with excellent image processing and transmission stability, reliability, and high efficiency, can be widely used in security monitoring, video conferencing, multimedia teaching, outdoor advertising, office and other fields.

## Features

- ◆ Support 1920x1080P@60Hz audio and video signals using CAT-6 single 200M, SC single-mode single fiber optical 20KM ;
- ◆ Support TCP/TP Ethernet standard protocol;
- ◆ Support 20-60KHz broadband infrared return function;
- ◆ Support compatible with HDMI1.4 standard and comply with HDCP1.4 standard;
- ◆ Built-in automatic equalization system, the picture is smooth, clear, stable, and compatible;
- ◆ Built-in ESD electrostatic protection circuit, all-round protection system safety;
- ◆ Installation is simple and convenient, plug and play, no need to set up;

## Panel is introduced

### Sender



- 1.Power-----DC5V power led or port
- 2.LINK-LED---Flashes after normal work
- 3.HDMI OUT-----HDMI signal output port
- 4.Mode key switch and status led
- 5.HDMI IN-----HDMI signal input port

- 6.ID-----ID key switch and led
- 7.RJ45-----CAT5E/6 signal port
- 8.Audio in-----3.5MM audio input port
- 9.IR out-----IR out port

### Receiver



- 1.Power-----DC5V power led or port
- 2.LINK-LED---Flashes after normal work
- 3.HDMI OUT-----HDMI signal output port
- 4.Mode key switch and status led

- 5.ID-----ID key switch and led
- 6.RJ45-----CAT5E/6 signal port
- 7.Audio out-----3.5MM audio output port
- 8.IR in-----IR in port

## Sender



- |  |  |
|--|--|
| 1.Power-----DC5V power led or port     | 6, 7.ID-----ID key switch and led      |
| 2.LINK-LED---Flashes after normal work | 8.USB IN-----PC usb input port         |
| 3.HDMI OUT----HDMI signal output port  | 9.RJ45-----CAT5E/6 signal port         |
| 4.Mode key switch and status led       | 10.Audio in-----3.5MM audio input port |
| 5.HDMI IN-----HDMI signal input port   | 11.IR out-----IR out port              |

## Receiver



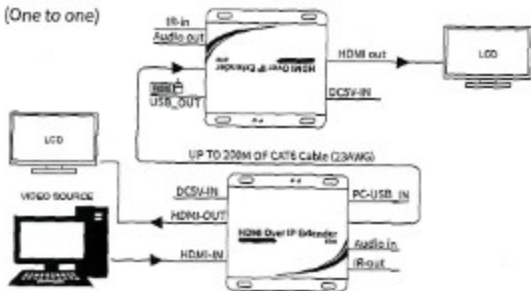
- |  |   |
|--|---|
| 1.Power-----DC5V power led or port     | 7.USB OUT-----USB output port           |
| 2.LINK-LED---Flashes after normal work | 8.RJ45-----CAT5E/6 signal port          |
| 3.HDMI OUT----HDMI signal output port  | 9.Audio out-----3.5MM audio output port |
| 4.Mode key switch and status led       | 10.IR in-----IR in port                 |
| 5.6.ID-----ID key switch and led       |   |

## Technical parameters

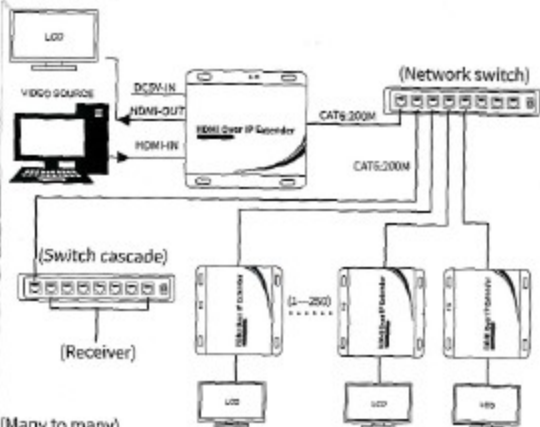
Length	CAT6-Cable-200M, SC-Fibre Cable-20KM
HDMI IN/OUT Resolution	1080P@60/50/30/1080i@60/720P/480P
Audio Format	LPCM
HDMI Standard	HDMI1.4 HDCP1.4
HDMI Data Rate	Bandwidth:340MHz/Data Rate:10.2Gbps
HDMI Video encoding compression format	H.264
Input video signal	0.5~1.5Volts p-p
Output DDC signal	5Volts p-p(TTL)
HDMI cable distance	≤10M AWG26 HDMI1.4 standard cable
Max working current	Sender:650mA, Receiver:500mA
Power Adapter	AC input: (50-60HZ) 100V-240V; DC out: 5V/1A
Size/Weight	100x96.8x29.35mm/150g
Shell Material	Metal

## Connection Diagram

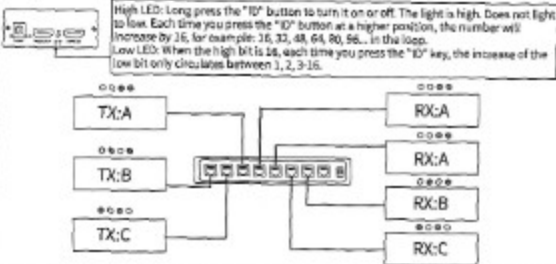
(One to one)



# (One to many)



# (Many to many)



Note: When many-to-many, the high and low indicator lights show the same group when they are the same.

## The matters needong attention of installation

In order to ensure the reliable performance of the equipment and the safety of the user, please observe the following matters during the process of installation, use and maintenance.

- Please do not use this product in the following places: the place of dust, soot and electric conductivity dust, corrosive gas, combustible gas; the place exposed to high temperature, condensation, wind and rain; the occasion of vibration and impact. Electric shock, fire, wrong operation can lead to damage and deterioration to the product, either;
- Should avoid wiring and inserting cable plug in charged state, otherwise it is easy to cause the shock, or electrical damage;
- The installation and wiring should be strong and reliable, contact undesirable may lead to false action;
- This product grounds by the grounding wires. To avoid electric shocks, grounding wires and the earth must be linked together. Before the connection of input or output terminal, please make sure this product is correctly grounded;
- Only after cutting down all external power source, can install, wiring operation begin, or it may cause electric shock or equipment damage;
- Please do not dismantle the equipment, avoid damaging the internal electrical component.

## Packing list

NO.	Parts	Qty
1	HDMI Extender(tx or rx)	1
2	Power Adapter:DC5V/1A	2
3	IR cable	1
4	User manual/Warranty Card	1