120M HDMI EXTENDER WITH TCP/IP

User Manual

1. Product Description

The model JC-EX605H includes a transmitter unit (TX) and a receiver unit(RX), working as a pair. It allows for transmission and extension full HD 1080p@60Hz HDMI signal via CAT5e/6 UTP network cable, the transmission distance is up to 120meters; Support point to multi-point over Ethernet switch over IP. At the same time, the signal is stable, and the built-in EDID greatly improves the compatibility of the device. This product is perfect for AV transmission in applications of HD conference system, HD video shooting, HD multimedia education system, HD digital advertising and signage etc.

The device has a long transmission distance, low use cost, convenient installation and good compatibility, and it is a stable and efficient transmission method.

2. Main Features

- Aluminum shell, compact size and Slim design, more beautiful than iron shell, strong anti-interference ; Wall-mounted type is more convenient.

- Distance up to 120m over UTP CAT5E/6 cable.

- Video resolution max up to 1920*1080@60Hz.

- Support 1 to many receivers transmit（253pcs RX over Ethernet switch） .

- Support IR(38khz) signal pass back control .

- HDMI 1.3 and HDCP 1.2 standard.

- High compatibility, can auto-match source and display device.

- Built-in automatic adjustment system, make the image smooth, clear and stable.

- Built-in ESD protection system; Simple to install, plug and play.

- TCP/IP Ethernet communication.

- Pure Ethernet , Simple Cabling .

- Application Fields : 1 : N Solution (Shop, classrooms,Monitor , Digital Camera ,TCP/IP Network).

- Ordinary 100M or 1000M Ethernet switch.

3. Advantage

| Full HD 1080P@60Hz | Support TCP/IP | 120m long distance | Built-in ESD protection | Point to Multi-point |

| Plug and play | IR passback | local output | Slim Aluminium shell |

4. Specification

Parameter		Description
Video	Standards	HDMI 1.3; HDCP 1.2
	Maximum pixel clock	165MHz
	Maximum data rate	6.75Gbps
	Resolution	Max: 1920X1080@60Hz
	Connector	HDMI-A
	Impedance	100Ω
IR	Interface	3.5mm earphone seat
	Signal direction	Unidirectional
	Signal type	Digital
	IR frequency	38kHz
Ethernet	Interface	RJ45（568B)

	Transmission distance	UTP CAT5e/6 ---120m
	Power supply	The power adapter: DC 5V
	Power dissipation	MAX 4W
Other	Temperature	Operating: -5℃ ～ +70℃
	Humidity	Operating: 5% ~ 90%
	Dimension	100*97.5*18.6mm
	The warranty	1 year free warranty

5. Panel

Sender：
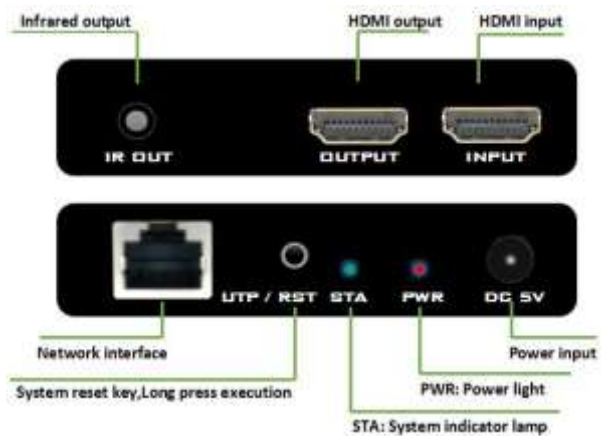
Receiver :
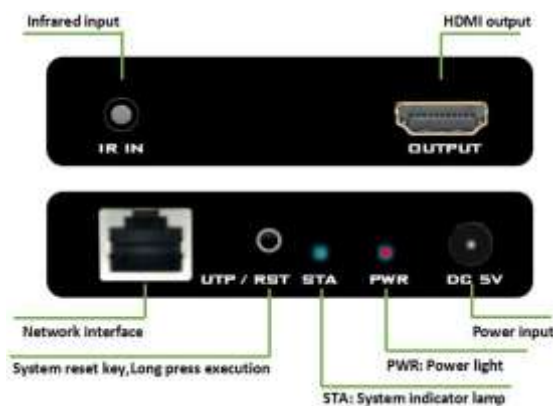
6. Installation Steps

1、 Connect the provided DC/5V power supplies to the power socket of the transmitter and the receiver,

2、 Connect an HDMI cable between the HDMI input port of transmitter and the HDMI output port of the video source,

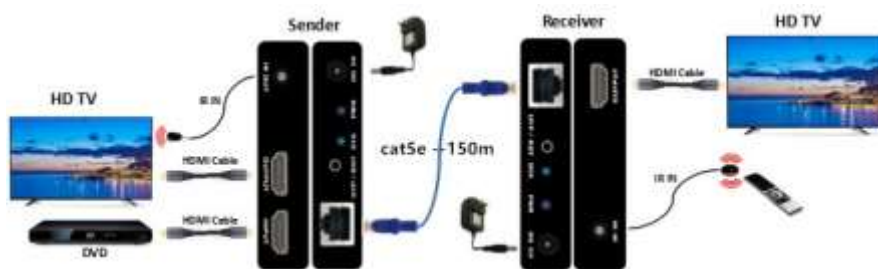3、 Connect the HDMI output port of receiver to the display device with HDMI cable,

4、 Connect the transmitter RJ45 port to the receiver RJ45 port using a single CAT6 cable.

5、 IR function---connect the IR TX (the bigger) cable to the HDMI receiver, connect IR RX cable to the HDMI transmitter and the IR TX must face to the controlled device.

7. Packing List

- HDMI extender transmitter   x 1

- HDMI extender receiver   x 1

- IR sender and receiver cable   x 1

- Power adapter   x   2

- Instruction manual   x 1

8. Using Diagram & Application

One to one

One to many