HDMI ®

HIGH-DEFINITION MULTIMEDIA INTERFACE

USER MANUAL
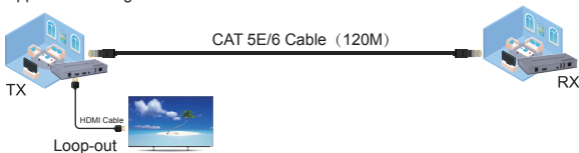
4K 120M KVM Extender

Enjoy the vivid world

Introduction

The Extender uses single cat5e or cat6(recommended) cables instead of HDMI cable to transmit high definition signal up to 120 meters, cutting down the cost. The Extender is designed to supply for long distance transmission of high definition signal.

Features

* Support HDMI 1.4/HDCP1.4;
* Support local loop-out ;
* Support 120m long distance transmission：

* Low power consumption, low temperature and high safety；
* Both the TX and RX support 3.5MM left and right audio output；
* Support IR control；
* Support USB mouse and keyboard extension;
* Support USB port touch screen function;

Specifications:

Length of CAT5e/CAT6 cable between Rx and TX …………….......................... 120 meters
HDMI Input ……………………………………………………. 4k/1080p/720p/576p/576i/480p/480i
HDMI Output ……………………………………………………. 4k/1080p/720p/576p/576i/480p/480i
Max bandwidth ………………………………………………….............................. 340MHz
Max baud rate …………………………………………………………………….................... 3x3.4Gbps
Input video signal ……………………………………………………................. 0.5~1.5Volts p-p
Output DDC signal …………………………………………………................. 5Volts p-p (TTL)
Input HDMI cable distance ……………………………… ≤10m AWG26 HDMI standard cable
Output HDMI cable distance .... ≤10m AWG26 HDMI standard cable
TX Max working current ………………………………………………………… 350mA
RX Max working current ………………………………………………………… 200mA
Power adapter format ………………... Input:AC (50HZ, 60HZ) 100V-240V; Output: DC5V/1A
Operating Temperature range ………………………………………........….. (-15 to +55℃)
Operating Humidity range ……………………………………… 5 to 90%RH (No Condensation)
Dimension (L x W x H) …………………………………………..….. 107x105x27.3 (mm)
TX Weight ……………………………………………………………………………. 499g
RX Weight 494g
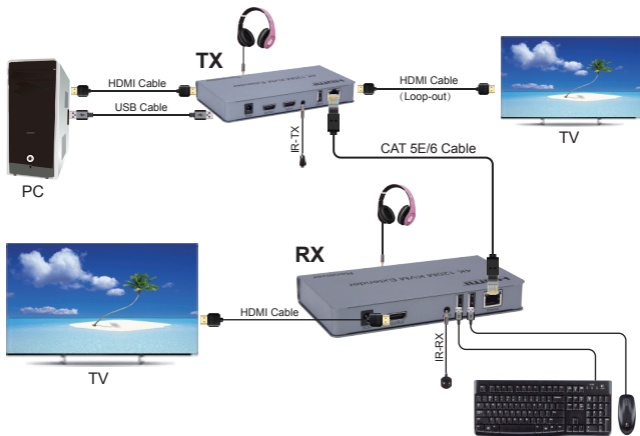
Connecting and Operating:

1. Connect one HDMI cable between source device and TX Extender, the max cable distance is 10 meters.
2. Connect one HDMI cable between display device and RX Extender, the max cable distance is 10 meters.
3. Connect single cat-5e or cat-6(recommended) cables instead of HDMI cables between TX and RX Extender, the max cable distance is 120 meters.
4. Connect 5V power supply to the TX and RX.
5. Plug the mouse and keyboard into the USB port of the receiver, and connect the USB port of the transmitter with the computer if you need the KVM control function.
   When you use touch screen function, Please connect one of the port of the receiver with the USB port of the touch screen display.
6. LED indicator light
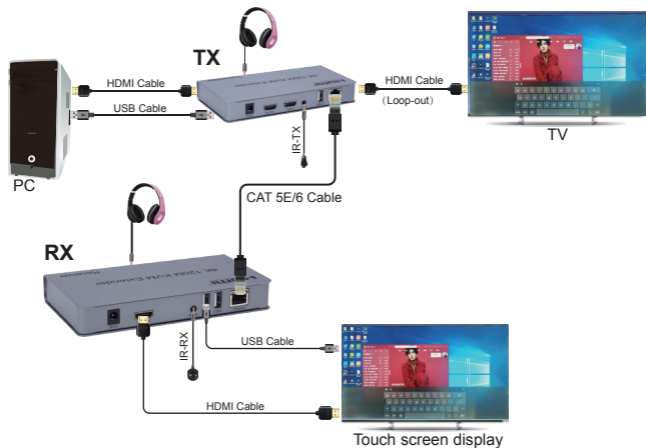   TX LED indicator light: Turn it on, green light; when there is a signal input, the yellow light flashing.

RX LED indicator light: Turn it on, green light; when there is a signal input,
the yellow light flashing.
7.The pairs of IR RX and IR TX cable connect the 3.5mm IR RX and IR TX port of the
receiver and transmitter respectively. (Just connect when you need it).

Connection diagram:

USB port touch screen function：

HDMI Cable

USB Cable

TX

IR-TX

HDMI Cable
(Loop-out)

TV

PC

CAT 5E/6 Cable

RX

IR-RX

USB Cable

HDMI Cable

Touch screen display

Application diagrams

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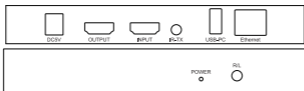

Audio-visual conference
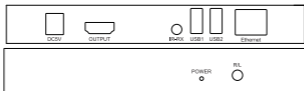
Command and control center

Home theater

Physical interface diagram

TX:

Port	Function description
DC/5V	5V DC Power input port
OUTPUT	HDMI Loop-out port
INPUT	HDMI Input port
IR-TX	IR-TX port
USB-PC	USB port, connect with the usb of device (PC)
Ethernet	Cat5e / 6 cable connection port
POWER	Power indicator light
R/L	Stereo output

RX:

Port	Function description
DC/5V	5V DC Power input port
OUTPUT	HDMI Output port
IR-RX	IR-RX port
USB1-2	USB port, connect the Touch screen display/mouse/keyboard
Ethernet	Cat5e / 6 cable connection port
POWER	Power indicator light
R/L	Stereo output

The Package includes:

1. TX Extender   1PCS
2. RX Extender   1PCS
3. IR cable   1 Pair
4. 5V/1A DC Power adapter   2PCS
5. User Manual   1PCS