HDMI &IR & USB Extender

User Manual

Thanks for buying our products! In order to make sure you use this product correctly, please read the instruction clearly before installation.

1. Product Introduction

The device includes a sender (with “Sender” logo) and a receiver (with “Receiver” logo), which can transmit HDMI, IR (infra-red control signals), USB over a single cat5e/6/7 cable to remote monitor or TV.

Supports 1080P HDMI HD signals, supports TCP/IP & network switch, each switch provides extra 100m working range.

The USB output supports wired keyboard and mouse, works with DVR/NVR, etc.

2. Features:

1. Supports HDMI1.3, HDCP1.2, all standard resolutions under 1920x1080@60Hz
2. Supports TCP/IP, a sender can work with many receivers via network switch, works like a HDMI splitter, as long as LAN (local Area Network) covers.
3. Up to 200m range for point to point connection, the distance can be extended via 100/1000M network switch, each switch can provide 100m extra distance.
4. Supports DVI-D with HDMI to DVI gender cable
5. Supports IR signals transmission too (optional)
6. Plug & play, no software or driver

3. Specifications:

Function	Number of input signal	Sender：One way（HDMI、USB、IR）
	Number of output signal	Receiver：One way（HDMI、2*USB、IR）
	Range	200m
Video & Parameters	Input	HDMI
	Output	HDMI
	HDMI Version	HDMI1.3
	HDCP Version	HDCP1.2
	Resolution	1920x1080@60Hz
	Video Color Format	24bit/30bit/36bit
	Support audio format	DTS/HD/Dolby-tureHD/LPCM7.1/DTS/Dolby-AC3/DSD
	Input/Output TMDS signal	0.5-1.5Vp-p(TTL)

	Input/Output DDC signal	5Vp-p(TTL)
USB Features	Connector	USB Type A
	Protocol	Supports USB keyboard and mouse
IR Feature	Connector	3.5mm audio jack
	Signals	IR signals from remote control
Size	Dim（LxWxH）	Sender: 130mm x 93mm x 30mm Receiver: 130mm x 93mm x 30mm
	Net Weight	1Kg
	Material	Steel
	Color	Black
Power	Operating Voltage	Input：AC110V-220V，50/60HZ Output：DC9-12V/1A
	Sender Power	<5W
	Receiver Power	<4W
Condition	Operating Temp	-15℃-55℃
	Storage Temp	-40-80℃
	Humidity	0-95% (No condense）

4. Packing Instruction:

When you open the packing, you will find:
1*Sender
1*Receiver
1*HDMI cable (for sender)
2*Power adapters
2*IR connectors (optional)
1*USB cable
1*User manual with warranty card inside

5. Installation

Note:

All devices and materials should be ready before installation, make sure the RJ45 plug with T568B wiring patterns, refer to *Figure 1*:

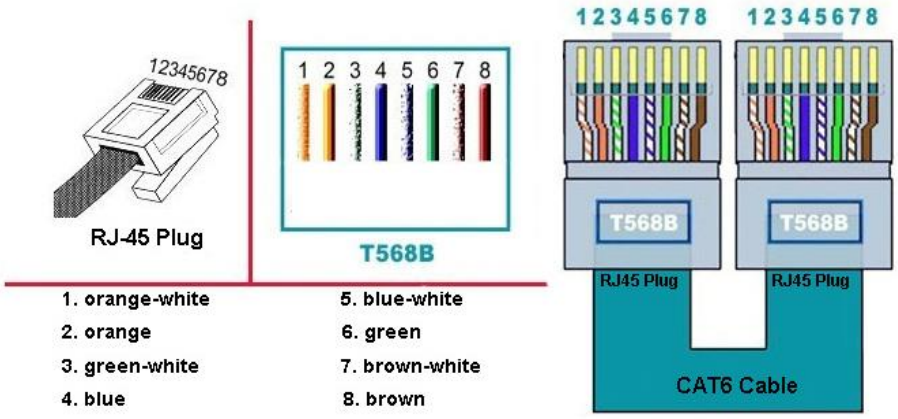


Figure 1: T568B wiring patterns

5.1 Point to Point Connection

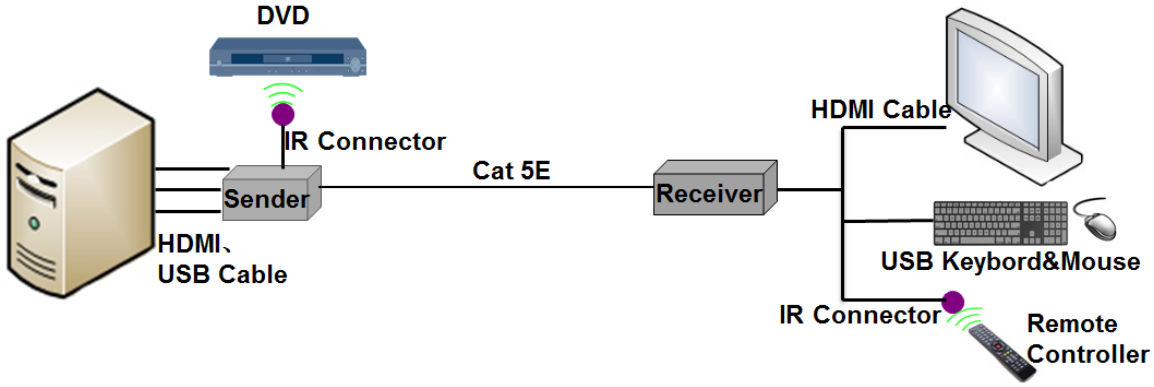


Figure 2: Point to Point Connection

1. Connects the sender to DVR/NVR/PC with HDMI & USB cables, also insert the IR receiver (one ring around 3.5mm plug) into IR-IN port
2. Connect one end of a network cable to **sender**, insert the power adapter into power outlet and the DC plug into **sender**
3. Connect the other end of the network cable to **receiver**, insert the power adapter into power outlet and the DC plug into **receiver**
4. Connects receiver to monitor with HDMI cable, USB mouse to the port with mouse pattern and keyboard to keyboard pattern port (do not reversed), insert the IR receiver (2 rings around 3.5mm plug) into IR-OUT port
5. Turn on all powers, start the host, the system works then.

5.2 Point to many connection

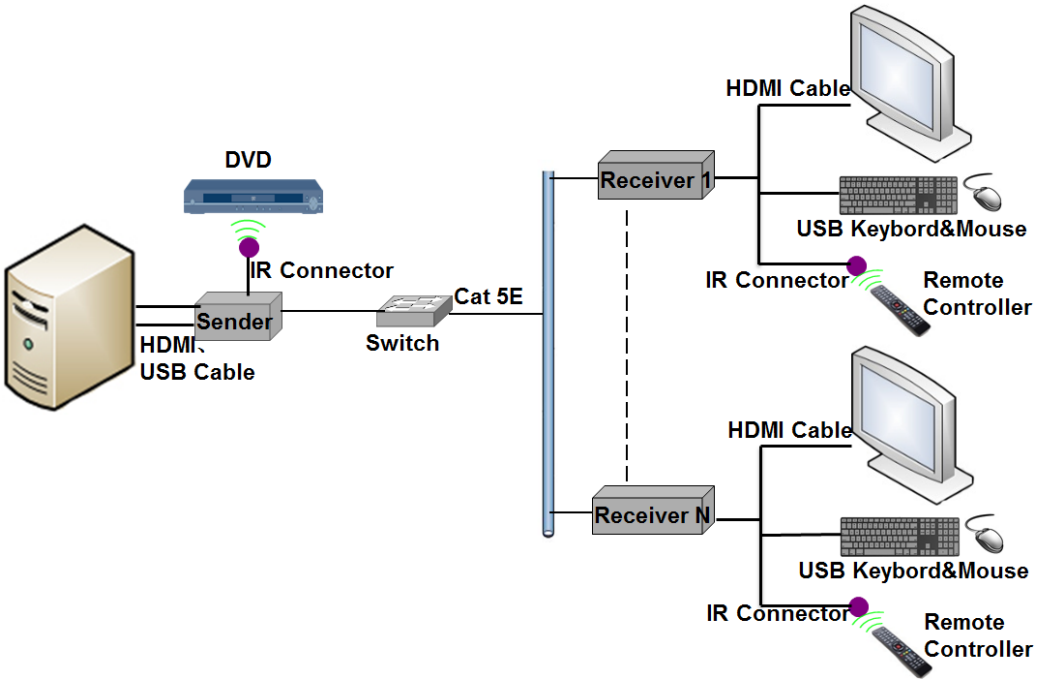


Figure 3: Point to Many Connection

1. Connects the sender to DVR/NVR/PC with HDMI & USB cables, also insert the IR receiver (one ring around 3.5mm plug) into IR-IN port.
2. Insert the power adapter into power outlet and the output DC plug into sender .
3. Connect one end of a network cable to sender, the other end to network switch. Take another network cable, insert one end to any LAN port in network switch, the other end to receiver, turn on the network switch.
4. Connects receiver to monitor with HDMI cable, USB mouse to the port with mouse pattern and keyboard to keyboard pattern (do not reversed), insert the IR receiver (2 rings around 3.5mm plug) into IR-OUT port.
5. Insert the power adapter into power outlet and the output DC plug into receiver.
6. Turn on the power of sender and receiver, power on the DVR/NVR/PC , the system works then.

6. Guide to revise IP and MAC address, bit rate of RS232

Normally, the default IP & MAC setting is ok, no need any change. For the cases need change the setting, please follow below guide：

Default IP Address:

Sender :192.168.168.55

Receiver :192.168.168.56

a) Change PC`s local IP address as 192.168.168.X（ X is a random number between 1 and 254 except 55 & 56）. Refer to *figure 4*

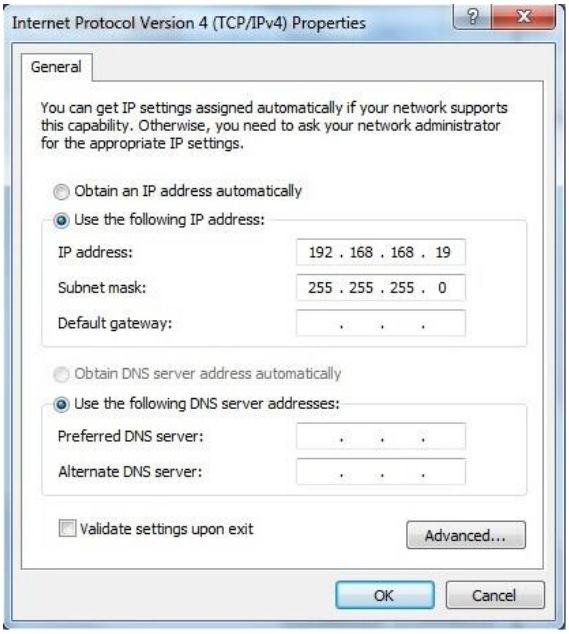


Figure 4 : Local IP setting

b) Connect the sender or receiver to PC with a network cable

c) Input 192.168.168.55(56) in address field of IE, then appears the setting page. refer to *Figure 5*

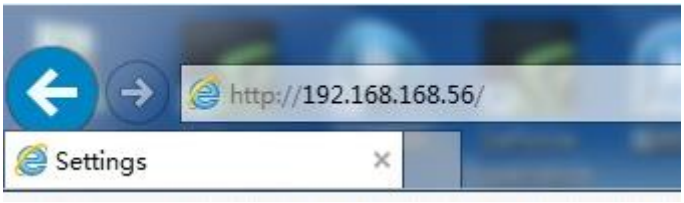


Figure 5 : Go to Setting Page

d) After change the IP or MAC address, click Apply button to save all changes. *Refer to Figure 6*

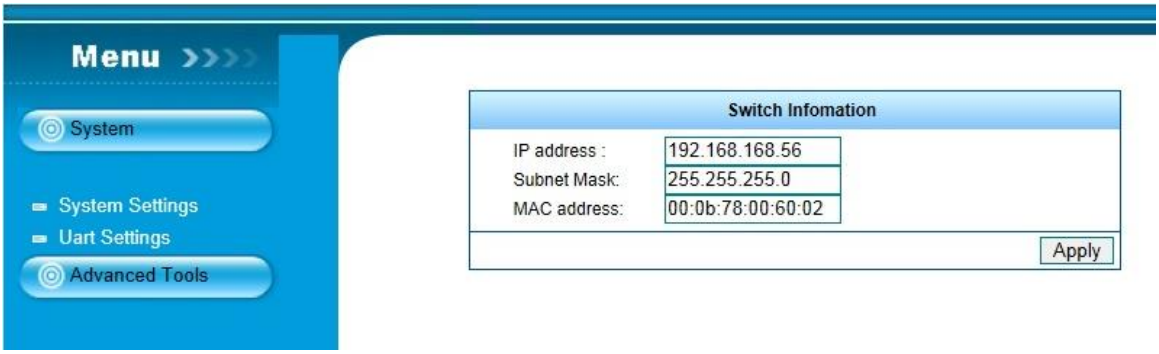


Figure 6

7. LED Indicator

1. Sender
   Power：Lighting means sender gets power
   Status：Lighting & blinking means normal works well with receiver
2. Receiver
   Power：Lighting means sender gets power
   Status：Lighting & blinking means normal works well with sender

Important

1. Network cable is not included in standard package, please buy it in local market, CAT5E/CAT6/CAT7 cables from good reputation brands are ok, with T568B wiring patterns
2. The USB mouse must be connected to the port with USB pattern, and keyboard to keyboard pattern port, otherwise the keyboard or mouse might not work.

8. Trouble Shooting and Solution

No	Problem	Solution
1	Power LED OFF	Bad power connection
2	Status LED OFF or not blinks	1. No power, check power connection 2. The network cable interface is loose 3. Network cable is broken off
3	No video	1. No video input； 2. Network cable is bad connection or broken off； 3. Resolution is too high, change it to 1080P or less
4	Mouse or keyboard down	1. USB input cable is not well connected； 2. Network cable is bad connection or broken off； 3. Keyboard or mouse is inserted to wrong port 4. Keyboard or mouse has poor connection with receiver

9. Warranty and after sale service

Thanks again for buying our product, and the product you bought enjoys lifetime warranty.

1，Our promises:

- Provide repair and maintenance service free of charge for 1 year starts you're

your purchasing date if it is defectiveness of product.

It is not within this scope if user dismantles the equipment by themselves; If the damage is caused by un-proper use or by man-made reasons which is not quality problem, then it is not within the free repair service

2，Notes:

- If you meet quality problem, please contact the reseller for solutions.
- If you can not get contact with reseller, please contact with us directly, we will solve the problem as fast as we can.
- Please fill the warranty card bellow for repair service

Warranty card

Item Number	
Machine Number	
Purchasing date	
Seller name and address	
Seller tel. and fax	
Invoice number	
Buyer name and address	
Buyer tel. and fax	
Buyer E-MAIL	
Description of problem	