

# **USER MANUAL**

## **4K HDTV 120M KVM Extender**

**Enjoy the vivid world**

Please read the user manual before product installation, and  
keep the user manual for backup after use.

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product, please keep this manual for future reference.

## **1. INTRODUCTION**

The Extender over CAT-5E/6 uses one piece of CAT-5e/6 cable to extend the HDTV display up to 120 meters for 4K\*2K, It not only breaks the limitation of the HDMI cable transmission length, but also CAT-5e/6 has more flexibility and convenience in cable construction.

It is equipped with HDMI (high definition multimedia interface) connectors and is capable of supporting DVI (digital visual interface) equipment when used with an HDMI to DVI adapter, providing greater flexibility and options when integrating several home theater components.

It offers solutions for residential consumers: HDTV retail and show site, HDTV,STB,DVD and projector factories, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.

## **2. BENEFITS**

- 1) The length of HDMI cable is fixed and unchangeable after it is produced. Because the HDMI connector can only be soldered or terminated by the professional workers in factory, the users can not reduce or increase by themselves, however CAT-5E/6 cables are available everywhere and can be processed easily by the user or installer.
- 2) Because the head of the long HDMI cable is big, using it must in hidden method, what is more, it is not easy to bend the HDMI cable and to pull it through the in-wall tube or tray. However, CAT-5e/6 cables do not have such problems.
- 3) With this extender, the transmission distance can be up to 120 meters while using CAT-5e/6 cables, for the general HDMI cables, they must be customized when the length is over 10 meters.

## **3. FEATURES**

This Extender has many features that enable it to perform in superior manner, among those features and you will find:

- 1) One pair as a full functional module, no need of setting.
- 2) CAT-5e/6 cable can substitute HDMI cable to achieve long distance transmission.
- 3) CAT-5e/6 follow the standard of IEEE-568B
- 4) Video resolution can be up to 4K\*2K@30Hz (120 meters CAT6 cable).
- 5) Compact size
- 6) Signaling rates up to 3.4Gbps in support of 4K\*2K display.
- 7) HDCP compliant
- 8) Support uncompressed audio such as LPCM
- 9) Support compressed audio such as DTS Digital, Dolby Digital (including DTS-HD and Dolby true HD)
- 10) The sender with HDMI output, audio output and Ir output.
- 11) The Receiver with HDMI output, audio output and Ir input.

## **4. SPECIFICATIONS**

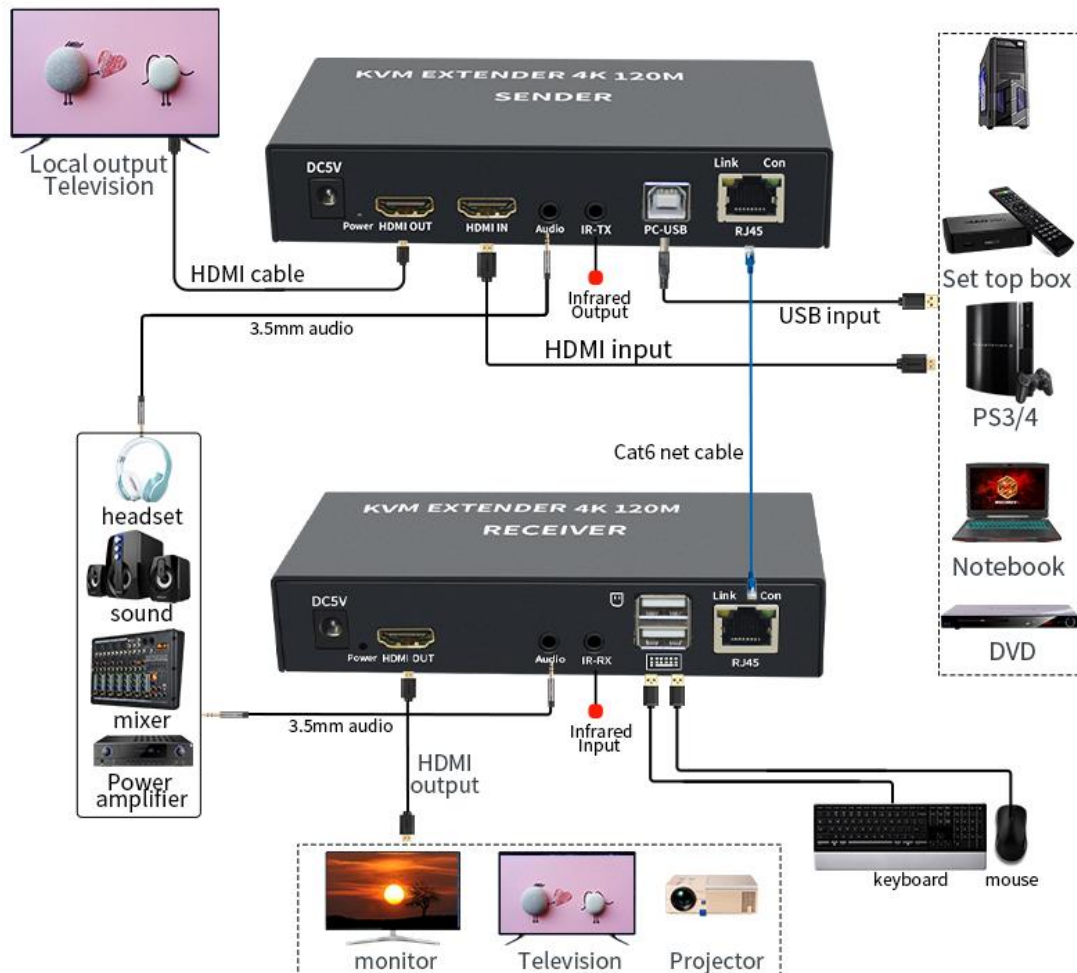
- 1) In order to achieve the high transmission quality please choose the shielded cat-5e or cat-6 cable.
  - 2) The cables with lower quality will not achieve the perfect transmission effect and long distance.
  - 3) Theoretically the function of the product is normal when adopt short distance transmission.
- If the product cannot transmit long distance, that is to say, there are quality problems in the

transmission cables

## 5. Installation steps

- 1) Connect the display monitor to the HDMI signal source, check the monitor and the signal source work correct.
- 2) Connect the Sender to the PC with HDMI cable and USB A-B cable.
- 3) Connect the Sender to display device, receiver to the display device with HDMI cables.
- 4) Connect the Sender to audio device, receiver to audio device with audio cables.
- 5) Connect the mouse and keyboard to the receiver.
- 6) Connect the Sender and the Receiver with standard CAT-5E/6 cable.
- 7) Power on the Sender and Receiver.
- 8) When first time to use the extender, or when the LEDs on the keyboard display wrong, use the hotkey “Hotkey”, “Hotkey”, “r”, “ENTER” to reset the extender:

## PRODUCT CONNECTION DIAGRAM



## 6. PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton.

- 1) Main unit no.1 transmitter

- 2) Main unit no.2 receiver
- 3) 2PCS DC5V power supply.
- 4) One USB A-B cable to transmit the USB data.
- 5) One Ir transmission cable, one Ir receiving cable.
- 5) User`s manual

## 7. PARAMETERS LIST

Input video signal	0.5-1.0 volts p-p
Input DDC signal	5volts p-p(ttl)
Maximum single link range	3840*2160, 1920*1080, 1080p
Output video	HDMI
Mouse/Keyboard Interface	USB
DTV/HDTV	4K/1080p/1080i/720p/576p/480p/576i/480i
Distance(Resolution)	120meters(4K*2K@30Hz)
Interlaced(50&60hz)	480i 576i 1080i,2160i
Progressive(50&60hz)	480p,576p,720p,1080p,2160p
Power consumption	5wattd(max)
Operating temperature	0 to+70℃
Operating humidity	10%to85%RH(no condensation)
Storage temperature	-10℃to+80℃
Storage humidity	5%to95%RH(no condensation)
External power supply	DC5V @1A

## 8. FAQs

1) Connect the sender and receiver with 1 meter CAT cable but display nothing on the monitor  
 Answer: The CAT cable should be longer than 5 meters, it may display nothing when the CAT cable shorter than 5 meters.

2) LEDs CapsLock and NumLock on the keyboard display wrong status

Answer: Please use the hotkey to reset the extender:

**“Hotkey”, “Hotkey”, “r”, “ENTER”**

3) What dose the Power LED mean?

Answer: The Power LED stand for the machine powered or not. When the machine powered, the Power LED will be on. If the Power LED is dark, it means the power is insufficient. If the Power LED is bright, , it means the power is sufficient.

4) What dose the Link LED and Con LED mean?

Answer: The Link LED stands for the sender and receiver power on normally and the CAT cable connection normal. The Con LED stands for connection status and powered on normally.