



USER MANUAL

50M HDMI KVM EXTENDER (8K@60Hz)

Enjoy the vivid world

Before using the product, please read this manual carefully and keep it properly.

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Introduction:

The Extender uses single cat6a or cat6 cables instead of HDMI cable to transmit high definition signal up to 50 meters, support 8K60Hz (YUV420)/4K120Hz input and output. This extender achieves long-distance signal transmission using low-cost cabling.



Features:

- * Support input and output resolution 7680*4320/60Hz YUV420/10bit, 8K@30Hz, 4K@120Hz, 4K@60Hz, 4K@30Hz, 40Gbps bandwidth.
- * Support PS5, Xbox, VRR/4K@120Hz.
- * Support HDMI Audio Passthrough, Dolby, DTS and 7.1 channel.
- * Support HDR, ALL.
- * Support HDCP 2.2/2.3 and HDCP 1.4.
- * Support (VRR) FreeSync, G-Sync.
- * 7680*4320/60Hz YUV420/10bit Length of Network cable CAT6A UTP 23AWG up to 50M, CAT6 UTP 23AWG up to 40M.
- * Support USB mouse, keyboard extension.
- * Support RS232 Serial Port Passthrough & Extension.

Specifications:

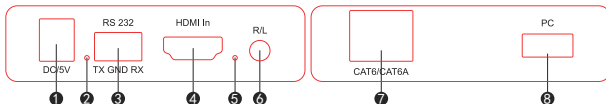
Length of Network cable CAT6A UTP 23AWG (0.57mm) up to 50M
Length of Network cable CAT6 UTP 23AWG (0.57mm) up to 40M
HDMI Input 8K60Hz 420(8bit/10bit)/8K30Hz/4K120Hz/60Hz/30Hz
HDMI Output 8K60Hz 420(8bit/10bit)/8K30Hz/4K120Hz/60Hz/30Hz
Supports audio format ... Dolby Atmos/DTS-HD/Dolby-trueHD/DTS/Dolby-AC3/DSD/DTS:X
Max baud rate 40Gbps
TX Max working current 750mA
RX Max working current 700mA
Power adapter format Input:AC (50HZ, 60HZ) 100V-240V; Output: DC5V/1A
Operating Temperature range (0 to +45 °C)
Operating Humidity range 5 to 90%RH (No Condensation)
Dimension (L x W x H) 94x81x22 (mm)*2
TX Weight 135g
RX Weight 136g

Resolution	Input	Output	Total cable length	Cable requirement
8K@60Hz	≤2M	≤2M	≤4M	30AWG
8K@30Hz				
4K@120Hz				
4K@60Hz	≤3M	≤3M	≤6M	26AWG
4K@30Hz	≤10M	≤10M	≤20M	26AWG
1080@60Hz	≤15M	≤15M	≤30M	24AWG
Tips: Please buy the right cable as required				

PS: The above data are obtained from the laboratory tests.

Physical interface:

TX:



1. DC/5V --- 5V DC Power input port;
2. Power indicator light;
3. RS232 --- RS232 Serial Port Passthrough TX/GND/RX;

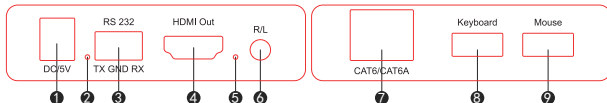
4. HDMI In --- HDMI Input port;
5. HDMI IN indicator light
(Detect TMDS Signal Input);
6. R/L --- Stereo output;
7. CAT6/CAT6A --- CAT6/CAT6A cable connection port;
8. PC --- Connect with the USB of PC;

LAN port LED indicator

Green light (DATA): software indicator will flash once briefly, turn off, and then become steadily lit.

Orange light: The indicator light flashes once at power-on, then enters a slow-blinking state when an HDMI signal is detected.

RX:



1. DC/5V --- 5V DC Power input port;
2. Power indicator light;
3. RS232 --- RS232 Serial Port
Passthrough TX/GND/RX;
4. HDMI out --- HDMI output port;
5. HDMI Out indicator light;
6. R/L --- Stereo output;
7. CAT6/CAT6A --- CAT6/CAT6A cable connection port;
8. Keyboard --- Connect with Keyboard;
9. Mouse --- Connect with Mouse;

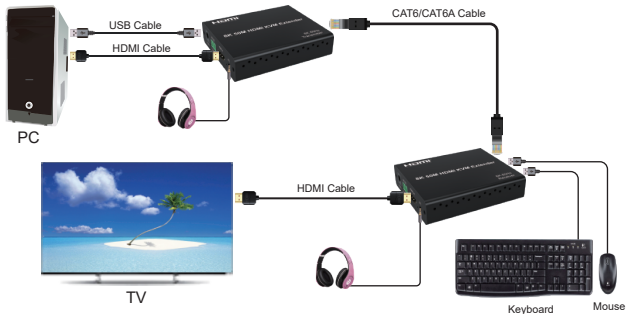
LAN port LED indicator

Green light (DATA): software indicator will flash once briefly, turn off, and then become steadily lit.

Orange Light (LINK): When powered on, it turns on and off briefly. If the network port receives an HDMI signal from the transmitter, it will flash slowly.

Connecting and Operating:

1. Connect one HDMI cable between source device and TX Extender.
2. Connect one HDMI cable between display device and RX Extender.
3. Connect single CAT6/CAT6A(recommended) cables instead of HDMI cables between TX and RX Extender, the transmit distance is 10-50 meters.
4. Connect 5V power supply to the TX and RX.
5. For KVM remote control, simply connect the USB port of TX to computer. Meanwhile, plug mouse and keyboard into the two USB ports of RX.



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

The Package includes:

- | | | | |
|------------------|------|---------------------------|-----|
| 1. TX Extender | 1PC | 4. Male to male USB cable | 1PC |
| 2. RX Extender | 1PC | 5. User Manual | 1PC |
| 3. Power adapter | 2PCS | | |