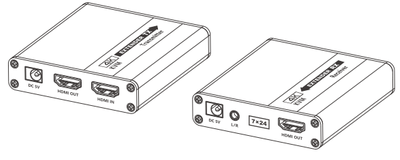
材质:200g哑粉纸 正反印刷
尺寸：100x138mm

H20041英文说明书AH1 V2.0
物料编码：0106010021936

User Manual

# HDMI EXTENDER

KVM Point to Point Extender



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

## • Important Safety Notice

1. Please distinguish the transmitter and receiver before installation.
2. Do not disassemble the machine to repair the product during the working process to avoid electric shock.
3. Please cut off the power before installation. Live installation may damage the equipment.
4. Do not expose the devices to rain, moisture and liquid.
5. Use a 5V/1A DC adapter only. Make sure the specification matched if using 3rd party DC adapters.

## • Introduction

This HDMI Extender includes a transmitter unit and a receiver unit, allows the HDMI signal to be transmitted up to 70 meters at 1080p resolution using a Cat6/6A/7 network cable. It adopts a point-to-point connection configuration, supports KVM remote control and management and 3.5 mm stereo audio output. It is perfect for outdoor advertising, monitor system, home entertainment, conference, etc.

## • Features

1. Zero latency.
2. Support up to 4K@30Hz resolution.
3. Support CAT6/6A/7 network cables, 1080p@60Hz transmission distance is up to 70 meters, 4K30Hz transmission distance is up to 40 meters.
4. Support KVM remote control and management.
5. Support HDR10.
6. Support EDID passthrough.
7. Transmitter supports HDMI loop-out.
8. Receiver supports 3.5mm stereo audio output.
9. Automatically adjusts parameters to match different network cables and achieve the best display performance.
10. Lightning Protection, Surge Protection, ESD Protection.



## • Package Contents

Transmitter unit x1pc

Receiver unit x1pc

DC5V/1A x2pcs

User manual x1pc

USB cable x1pc

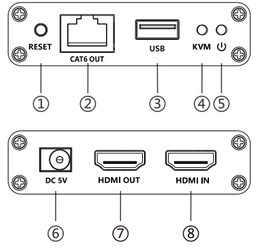
## • Installation Requirements

1. HDMI source device (compute graphics card, DVD, PS4, HD monitoring equipment etc.)
2. HDMI display device like SDTV, HDTV, projector with HDMI port.
3. UTP/STP CAT6/6A/7 cable. Follow standard IEEE-568B, It is recommended to select a network cable with less loss and crosstalk.



## • Interfaces

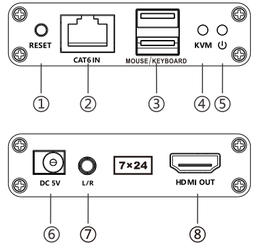
1. Transmitter (TX)




| | | |
|---|---|---|
| ① | Reset button | Press the button to restart the device. |
| ② | Rj45 signal output | Output modulated HDMI signal. |
| ③ | USB-A port | Connect to the computer. |
| ④ | KVM indicator | a) The host computer is not connected and the indicator light is off.<br>b) Connect to the host computer, the indicator light is always on.<br>c) The mouse and keyboard work normally, and the signal transmission indicator flashes. |
| ⑤ | Power/Signal indicator | a. When power is on and no HDMI signal is transmitted, the indicator flashes.<br>b. When power is on and HDMI signal is transmitted, the indicator is always on. |
| ⑥ | DC 5V input | Connect to the 5V1A DC power adapter. |
| ⑦ | HDMI output | Connect to a local HDMI display device. |
| ⑧ | HDMI input | Connect to a HDMI source device. |



2. Receiver (RX)



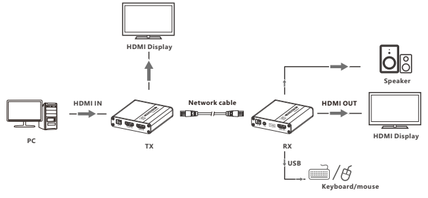

| | | |
|---|---|---|
| ① | Reset button | Press the button to restart the device. |
| ② | Rj45 signal input | Input modulated HDMI signal. |
| ③ | USB-A port | Connect mouse and keyboard. |
| ④ | KVM indicator | a) The host computer is not connected and the indicator light is off.<br>b) Connect to the host computer, the indicator light is always on.<br>c) The mouse and keyboard work normally, and the signal transmission indicator flashes. |
| ⑤ | Power/Signal indicator | a. When power is on and no HDMI signal is transmitted, the indicator flashes.<br>b. When power is on and HDMI signal is transmitted, the indicator is always on. |
| ⑥ | DC 5V input | Connect to the 5V1A DC power adapter. |
| ⑦ | 3.5mm L/R out | Connect headphones or power amplifiers to output stereo audio. |
| ⑧ | HDMI output | Connect to a HDMI source device. |

## Disclaimer

The product name and brand name may be registered trademark of related manufactures. ™ and ® may be omitted on the user manual.
The pictures in this user manual are just for reference. The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

## • Installation Procedures

**1. Connection**




**Note:** When using the 3.5mm stereo audio jack, please switch the audio output format of the signal source to PCM format.

The network cable should follow the standard of IEEE-568B. It is recommended to select a network cable with less loss and crosstalk.

| | | |
|---|---|---|
| 1-Orange/white | 2-Orange | 3-Green/white |
| 4-Blue | 5-Blue/white | 6-Green |
| 7-Brown/white | 8-Brown | |

**2. Connection instruction**

1 ) Connect the source device to the HDMI in port of the transmitter with an HDMI cable, and connect the HDMI out port of the receiver to the display device with another HDMI cable.

2 ) Connect the CAT out port of the transmitter and the CAT in port of the receiver via a network cable (CAT6/6A/7).

3 ) If using HDMI loop out, connect the display device to the HDMI OUT port of the transmitter.

4 ) Plug the power supply into the device to get started.

**[NOTE]:** It is recommended to use a length range within 2~70m network cable. If the cable is too short, there may be no display output because the signal is too strong. If the cable is too long, the output may be with poor quality.



## • FAQ

Q: There is no output on screen when all connections are correct?

A: 1) Please make sure the HDMI cables support the resolution of the output signal from the source device.

2) Please check and make sure the network cable insert to the RJ45 port well.

3) Restart the transmitter or receiver by pressing the reset button.

Q: Black screen happened on the display/monitor?

A: 1) Check if the length of the cable is within the specified range.

2) Reset the transmitter to re-built the connection.

Q: The display shows unusual color or no sound?

A: 1) Reset the transmitter or receiver to re-built the connection.

2) Check if the HDMI cables are connected well.

3) Reconnect the network cable.



## • Specification

| Items | | Specification |
|---|---|---|
| Power Supply | Voltage/Current | DC5V/1A |
| | Power consumption | TX < 2.5W RX < 2.5W |
| HDMI Performance And Interface | HDMI compliance | HDMI 1.4 |
| | HDCP compliance | HDCP 1.4 |
| | HDMI resolution | 800x600、1024x768、1280x720、1280x960、1366x768、1440x900、1680x1050、1920x1080、480i@60Hz、480p@60Hz、576i@50Hz、576p@50Hz、720p@50/60Hz、1080i@50/60Hz、1080p@24/25/30/50/60Hz、3840x2160@24/25/30Hz |
| | Supports audio formats | PCM, LPCM, DTS HD, DTS Audio |
| | Input and output TMDS signal | 0.7~1.2Vp-p(TMDS) |
| | Input and output DDC signal | 5Vp-p(TTL) |
| | Input cable length | ≤8m(AWG24) |
| | Output cable length | ≤8m(AWG24) |
| Transmission Distance | Cat6/6A/7 | 1080p@60Hz≤70m<br>4K@30Hz≤40m |
| Protection Level | Electrostatic protection of the whole machine | Implementation of the standard: IEC61000-4-2<br>1a Contact discharge level 2 (4KV)<br>1b Air discharge level 3 (8KV) |
| Operating Environment | Working temperature | -20~60℃ |
| | Storage temperature | -30~70℃ |
| | Humidity (no condensation) | 0~90%RH |
| Body Properties | Dimension | 75.0(L) x 85.0(W) x 20.0(H)mm |
| | Material | Aluminum alloy material + crystal panel |
| | Treatment process | Grit blast |
| | Color | Black |
| | Weight | TX: 180g RX:180g |