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ER2860KVM
HDMI KVM
Extender Over

eira ER2860KVM HDMI KVM Extender Over User Manual

eira ®
A Step Ahead

eira ER2860KVM HDMI KVM Extender Over

Product Information

Specifications

- **Model:** ER2860KVM
- **Extension Distance:** Up to 60m
- **Resolution:** 1080p
- **Cable Type:** Cat5e/Cat6
- **Connection Type:** Point-to-Point
- **Supports:** HDMI, USB, Audio, IR

Product Usage Instructions

- Connect HDMI input source to HDMI Input Port.
- Connect 5V DC power to the Power Input Port.
- Connect the Cat5e/6 cable to the Output Port.
- Connect USB for Keyboard/Mouse and Audio devices.
- Use IR Transmitter for remote control.
- Connect HDMI display to HDMI Input Port.
- Connect 5V DC power to the Power Input Port.
- Connect the Cat5e/6 cable from the Transmitter to the Output Port.
- Connect USB for Keyboard/Mouse and Audio devices.
- Use IR Receiver for remote control.

Applications

- HDMI KVM extenders are suitable for various applications such as outdoor advertising, monitor systems, home entertainment, and conferences.

FAQ

- **Q:** Can I use this extender for video conferencing setups?
- **A:** Yes, the HDMI KVM extender is ideal for facilitating video conferencing setups in conference rooms over long distances.
- **Q:** What resolution does the extender support?
- **A:** The extender supports resolutions up to 1080p.

Introduction

- This HDMI KVM (Keyboard, Video, Mouse) extender allows you to extend HDMI signals along with keyboard and mouse signals over longer distances up to 60m at 1080p resolution using a Cat5e/ Cat6 network cable.
- It adopts a point-to-point connection configuration and supports KVM.
- It is perfect for outdoor advertising, monitor systems, home entertainment, conferences, etc.

Features

- Support highest video resolution 1080p/60Hz
- 60m long-distance transmission
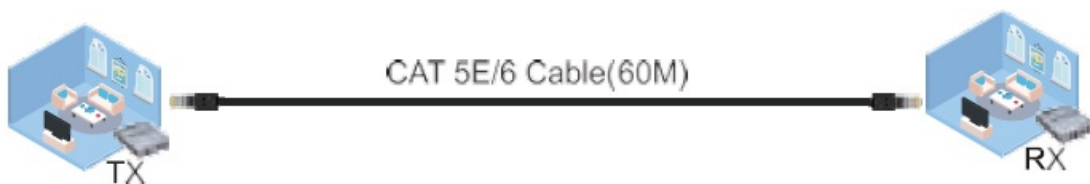
- Both the TX and RX support 3.5MM left and right audio output
- Low power consumption, low temperature, and high safety
- Support IR remote control
- Support USB mouse and keyboard extension

Specifications

- **Length of CAT-5E/6 cable between RX and TX:** Up to 60 meters
- **HDMI Input:** 1080p/1080i720p/576p/576i/480p/480i
- **HDMI Output:** 1080p/1080i/720p/576p/576i/480p/480i
- **Max bandwidth:** 150MHz
- **Max baud rate:** 4.5Gbps
- **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:** ≤15m AWG26 HDMI standard cable
- **TX max working current:** 300mA ; RX max working current: 300mA

- **Power adapter rating:** Input: AC (50HZ,60HZ)100V-240V; Output: DC5V/1A
- **Operating temperature range:** -15 to +45C
- **Operating humidity range:** 5 to 90%RH (No Condensation)
- **Dimension (L x W x H):** 94 x 84 x 24 (mm)
- **TX Weight:** 220g; RX Weight: 220g

Connection and Operation

- Connect one HDMI cable between the source device and the TX Extender, the max cable distance is 10 meters
- Connect one HDMI cable between the display device and RX Extender, the max cable distance is 15 meters
- Connect single cat-5e or cat-6 (recommended) cable between TX and RX Extender, the max cable distance is 60 meters
- Connect 5V power supply to the TX and RX
- LED indicator light: TX LED indicator light: When there is signal input, it turns blue; RX LED indicator light: When there is signal input, it turns blue
- EDID button: The button can support the switch of EDID between 720P and 1080P. (1080P is the default EDID when the power is on).
- Plug the IR receiver cable into the receiver, and the IR transmitter cable plug into the transmitter if you need the IR receiver cable, aim at the equipment which needs to be controlled.
- Plug the mouse and keyboard into the two USB ports of the receiver and connect the USB port of the transmitter to the computer if you need the KVM control function.

Physical Interface Diagram

TX
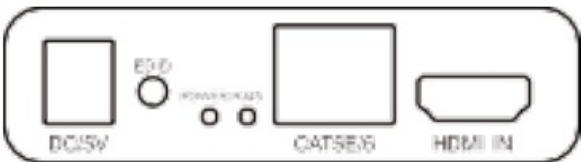
Port	Function Description
Input	HDMI Input Port
DC/5V	5V DC Power Input Port
CAT5E/6	Cat5e/6 Cable Output Port
USB	USB-PC
Audio	Stereo Output
IR-TX	3.5mm IR Transmitter
EDID	1080P & 720P Switch Button (press for 3 seconds)

RX

Port	Function Description
Output	HDMI Input Port
DC/5V	5V DC Power Input Port
CAT5E/6	Cat5e/6 Cable Output Port
IR-RX	3.5mm IR Receiver
USB1	USB for Mouse or Keyboard
USB2	
Audio	Stereo Output

The Package includes

1. TX Extender 1PCS
2. RX Extender 1PCS
3. IR receiver cable 1PCS
4. IR transmitter cable 1PCS
5. 5V power adapter 2PCS
6. User Manual 1PCS

Connection Diagram
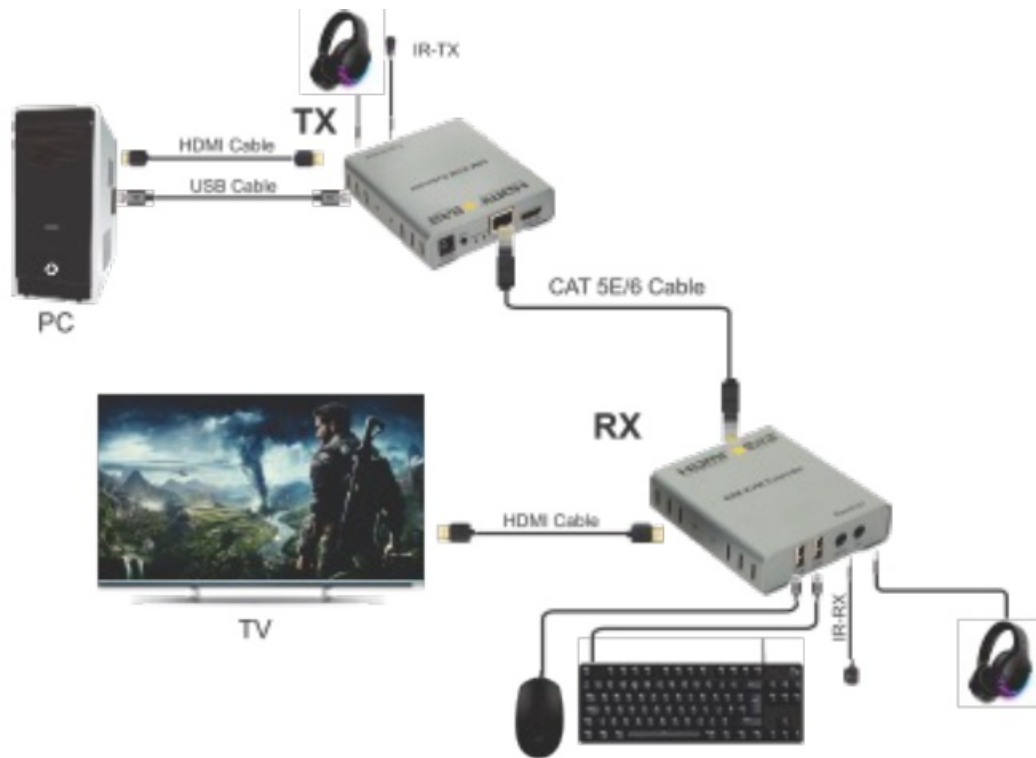
Applications

HDMI KVM extenders enable remote control of computers and multimedia systems over long distances, making them ideal for applications like digital signage deployment in large venues or facilitating video conferencing setups in conference rooms.

Home Theatre

Conference System

Bank Trading Centres

Documents / Resources

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References

- [**User Manual**](#)