

# **KH8100 4K 30Hz HDBaseT KVM Extender**

## **Product Highlights**

### **Lossless Transmission for Ultimate Image Quality**

Supports HDMI signal transmission of full HD 1080p@60Hz, 3D, and 4Kx2K@30Hz. It ensures lossless image quality and zero latency, allowing every detail of the picture to be fully presented.

### **Ultra-Long-Distance Transmission**

With Cat5e/Cat6 network cables, it can stably extend 1080p and 4K@30Hz signals up to 100 meters. This breaks the distance limit and expands application scenarios.

### **Multi-Functional Signal Integration**

A single network cable can simultaneously transmit HDMI video, bidirectional IR (Infrared), bidirectional RS-232, and bidirectional USB signals. This simplifies wiring and improves efficiency.

### **Support for USB Peripherals**

It enables remote control of computers using a mouse and keyboard, and supports data reading and transmission via USB flash drives, ensuring convenience and high efficiency.

### **POC Single-Cable Power Supply**

Adopting Power over Cable technology, only one end (either the transmitter or the receiver) needs to be powered to drive the entire set of equipment, making installation simple.

### **Multiple Output Interfaces**

Supports 1 local HDMI loop-out and 2 extended HDMI outputs. It can be flexibly used in various occasions to meet the connection needs of multiple devices.

### **Wide Compatibility**

Compatible with HDCP2.2 and supports CEC function. It is also compatible with various audio formats such as LPCM, DTS-HD, and Dolby True HD, working with a wide range of devices and content.

### **High-Reliability Application**

Designed for 24/7 stable operation, the metal case ensures durability and heat dissipation performance. It is suitable for professional scenarios such as monitoring, conferences, education, and remote control.



## Product Specifications

|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| Model                      | KH8100                                                                    |
| Transmitter Interface (TX) | 1×HDMI Input, 1×HDMI Output, 1×IR Input, 1×RS-232, 1×USB, 1×RJ45          |
| Receiver Interface (RX)    | 2×HDMI Output, 1×IR Output, 1×RS-232, 1×USB, 1×RJ45, 1×3.5mm Audio Output |
| HDMI Version               | HDMI 1.4, supporting HDCP2.2, CEC, 24-bit color depth                     |
| Supported Resolutions      | 480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 3D / 4K×2K@30Hz        |
| Audio Formats              | LPCM, DTS-HD, Dolby True HD                                               |
| Transmission Technology    | HDBaseT, uncompressed, zero latency                                       |
| Transmission Medium        | CAT5e, CAT6, CAT6A, CAT7 network cables                                   |

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| Transmission Distance | Up to 100 meters (1080p/4K@30Hz)                                                       |
| HDMI Output           | 1 HDMI loop-out + 2 extended HDMI outputs                                              |
| USB Transmission      | Bidirectional USB2.0, supporting devices such as keyboards, mice, and USB flash drives |
| IR Transmission       | Supports 20–60kHz wide-band IR bidirectional return                                    |
| RS-232 Serial Port    | Supports bidirectional RS-232 serial port transmission                                 |
| Audio Output          | 3.5mm audio output interface                                                           |
| Power Supply Method   | POC single-end power supply (DC 12V/3A)                                                |
| Power Consumption     | <8W                                                                                    |
| Dimensions            | 121 × 94 × 25 mm (1 transmitter / 1 receiver)                                          |
| Weight                | Transmitter: 300g, Receiver: 300g                                                      |
| Case Material         | Metal                                                                                  |
| Color                 | Black                                                                                  |

## Package Contents

- 1×KH8100 Computer End (Transmitter)
- 1×KH8100 Control End (Receiver)
- 1×DC 12V/3A Power Adapter
- 1×User Manual

## Friendly Reminders

- It is recommended to use certified HDMI cables to ensure signal transmission quality and stability.
- It supports USB mice and keyboards of most computers and monitoring systems, but USB mice and keyboards of some industrial computers may not be compatible.

- To maintain product stability, please use the original certified power adapter to avoid equipment damage caused by abnormal power supply.
- Connection with KVM switches of other brands is not recommended. If there are special needs, please contact customer service to confirm compatibility.