100M HDMI KVM+Audio Extender

HKE1011C1H

This 100M HDMI KVM Extender with multi-function HKE1011C1H, extends HDMI and USB signal up to 100 meters over a single CAT5e/6 cable. Support USB2.0 extension, providing access to keyboard, mouse, touch-panels, printers, and USB drive. Support resolutions up to 2560*1440@60Hz (For 100M UTP/FTP). Support EDID pass though, best compliant with different display device. Bidirectional IR pass through, easy to control HDMI source device and display device by IR remote. Support RS232 pass through, save one communication cable for remote devices control. Support extra audio output. With customized remote button, it is easy to turn on PC remotely. Support power over UTP cable, only receiver should be powered.
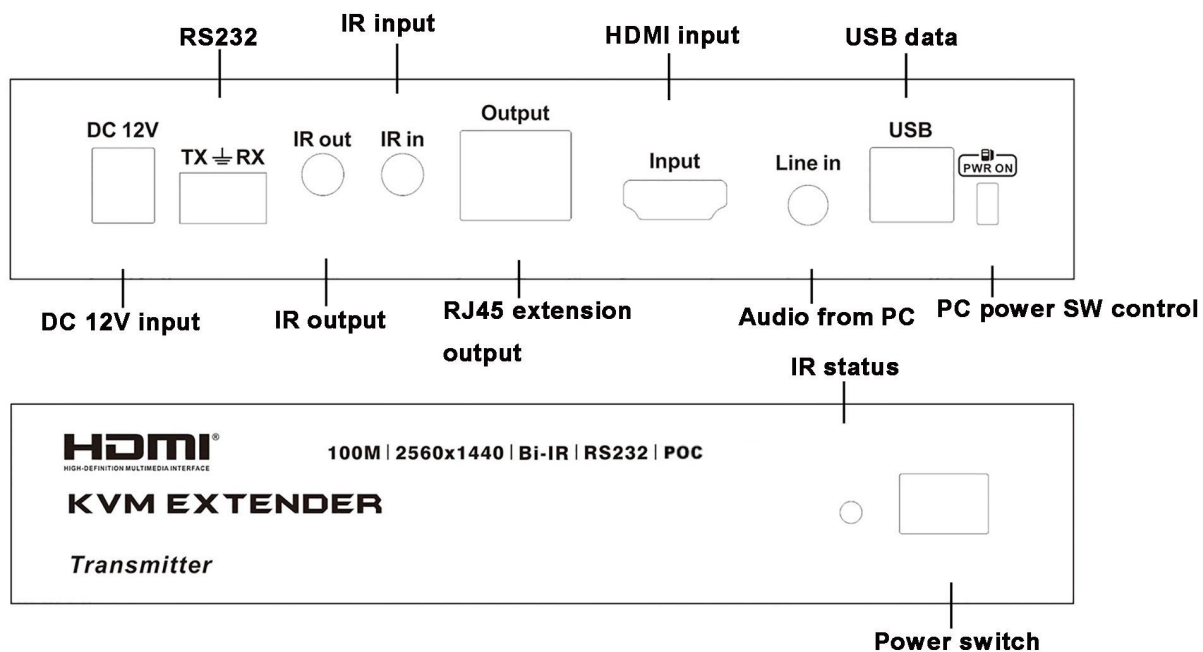
Features

- Resolution up to 2560*1440@60Hz (For 100M UTP)
- Support TMDS equalization and enhancement
- Support EDID pass through via LAN, for best compliance with most display devices
- Providing access to keyboard, mouse, touch-panels, printers, and USB drive etc
- With remote PC power switch button, it is easy to turn on PC remotely
- Support PoC (Power Over Cable), transmitter powered by receiver
- Support DVI source and display with the use of HDMI-to-DVI adapters
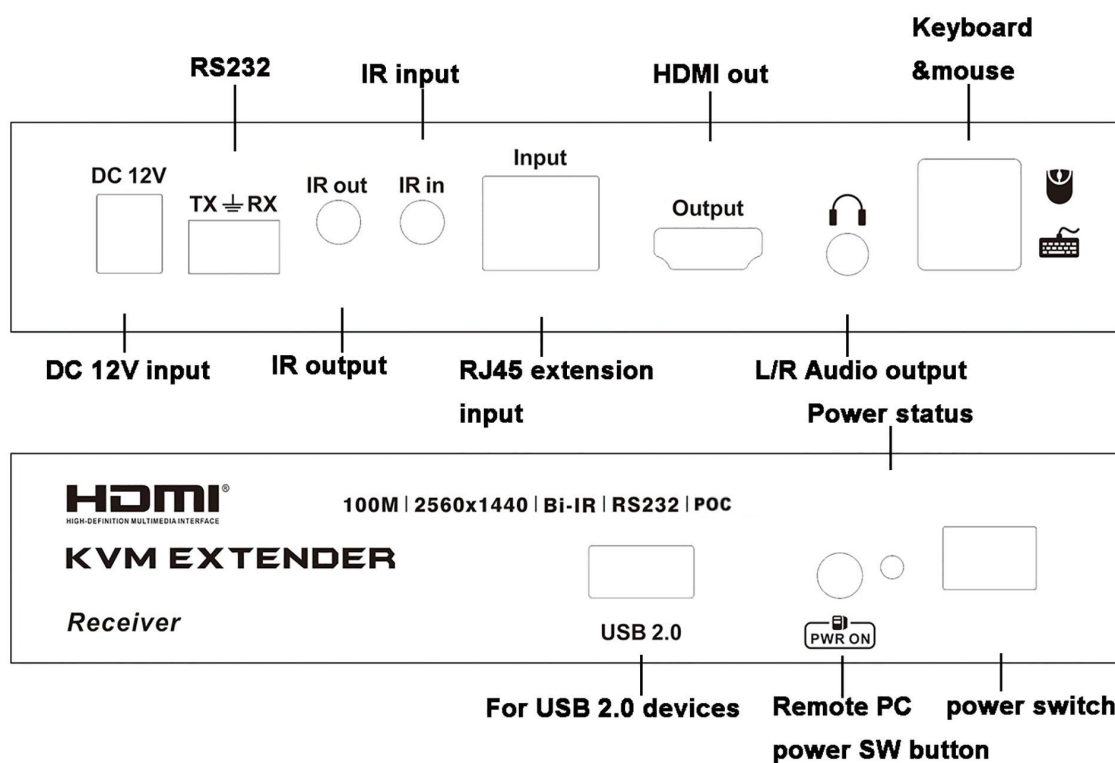- Support audio out from receiver

Packing list

1 * HDMI KVM transmitter
1 * HDMI KVM receiver
2 * IR Transmitter
2 * IR Receiver
2 * RS232 Plug（3Pins）
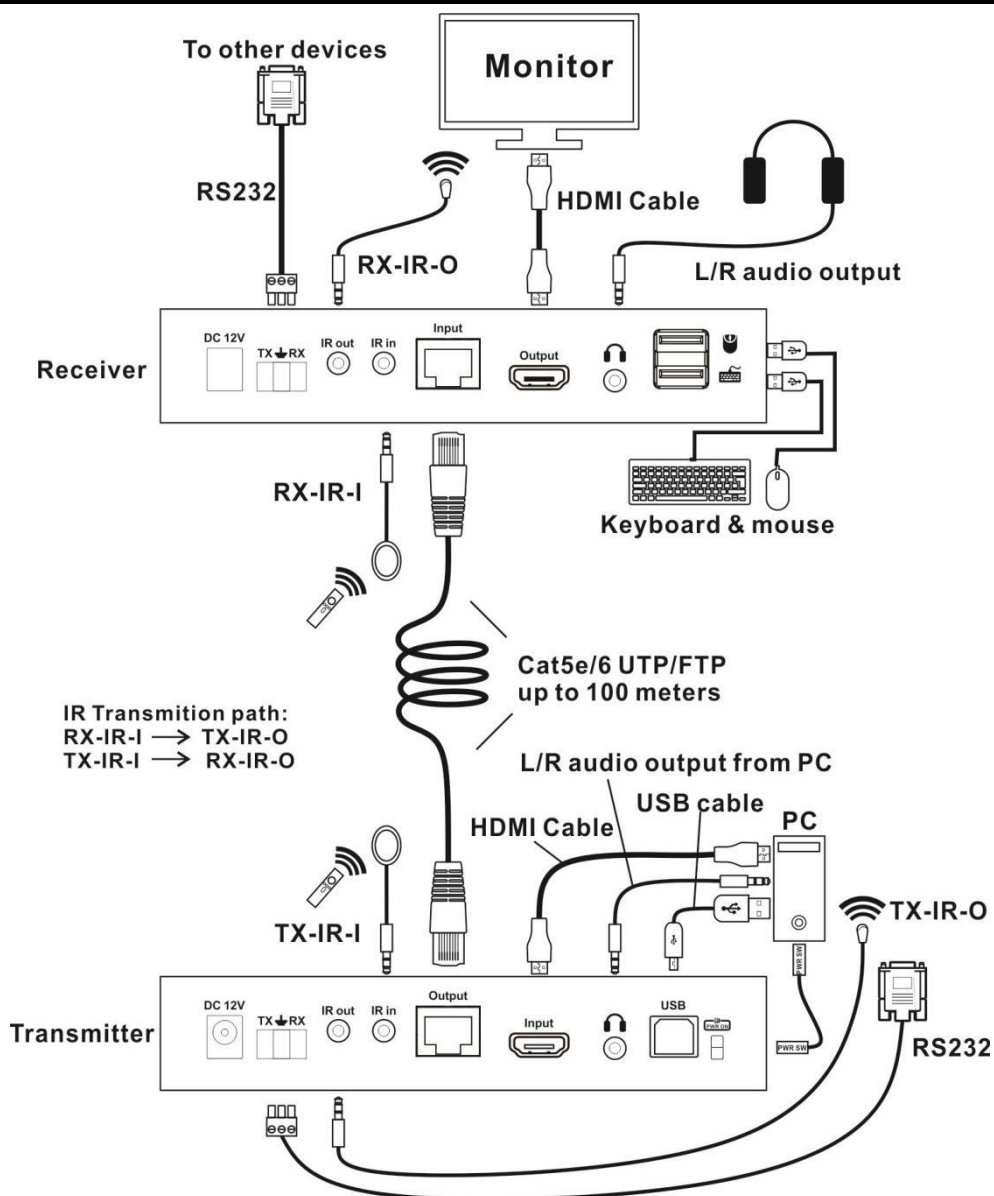1 * DC 12V 2A Power Adapter
1 * Quick-Start guide

Panel Description:

Transmitter:

RS232   **IR input**   **HDMI input**   **USB data**

Output

DC 12V   TX ≟ RX   IR out IR in   USB   PWR ON

Input   Line in

DC 12V input   **IR output**   **RJ45 extension**   **Audio from PC**   **PC power SW control**
                                     output

                                                          IR status

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE   100M | 2560x1440 | Bi-IR | RS232 | POC

KVM EXTENDER

Transmitter

Power switch

Receiver:

                                                          Keyboard
                                                          &mouse

RS232   **IR input**   **HDMI out**

                                     Input

DC 12V   TX ≟ RX   IR out IR in   🖱
                                     Output
                                                                    ⌨

DC 12V input   **IR output**   **RJ45 extension**   **L/R Audio output**
                                     input   **Power status**

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KVM EXTENDER

Receiver
                                     USB 2.0   PWR ON

For USB 2.0 devices   **Remote PC**   **power switch**
                           power SW button

Connection diagram

To other devices

Monitor

RS232

RX-IR-O

HDMI Cable

L/R audio output

Receiver

DC 12V   TX↓RX   IR out   IR in   Input   Output

RX-IR-I

Keyboard & mouse

Cat5e/6 UTP/FTP
up to 100 meters

IR Transmition path:
RX-IR-I → TX-IR-O
TX-IR-I → RX-IR-O

L/R audio output from PC

USB cable   PC

HDMI Cable

TX-IR-I

TX-IR-O

Transmitter

DC 12V   TX↓RX   IR out   IR in   Output   Input   USB

PWR SW

RS232

Specification:

HKE1011C1H	100M HDMI KVM+Audio Extender
Technical	
HDCP compliance	1.3
Data rate	10.2 Gbps
Max. Resolution	2560*1440@60Hz (For 100M UTP cable)
ESD protection	Human body model - ±8kV (Air-gap discharge)
Input	Transmitter: 1* HDMI Type A, 2* AUX(For audio input and IR in) 1*RS232(3Pins) Receiver: 1* RJ45, 2* USB Type A(keyboard and mouse), 1* USB Type A (USB2.0) 1* AUX(for IR in)
Output	Transmitter: 1* RJ45, 1* USB Type B, 1* AUX(for IR out) Receiver: 1* HDMI Type A, 2* AUX(for Audio out and IR out) 1* RS232 (3Pins)
Mechanical	
Chasing material	Aluminum Alloy
Product Dimensions	RX: 160 (W) x 90 (D) x 30 (H) mm TX: 160 (W) x 90 (D) x 30 (H) mm
Item Weight	330g
Power supply	DC 12V 2A
Operating/Storage temperature	0 to 70 degree/-40 to 85 degree
Operating Humidity	10 to 90% RH