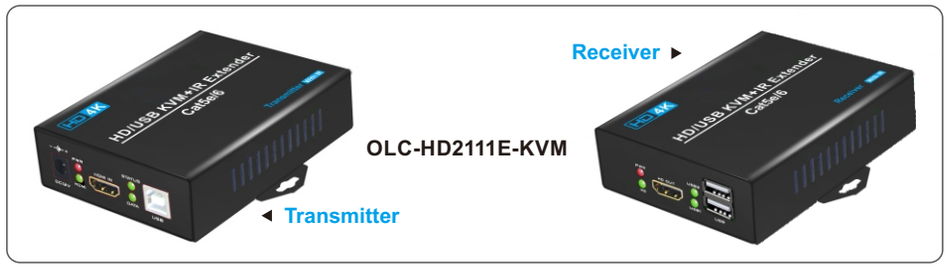
HDMI & KVM extender



Features

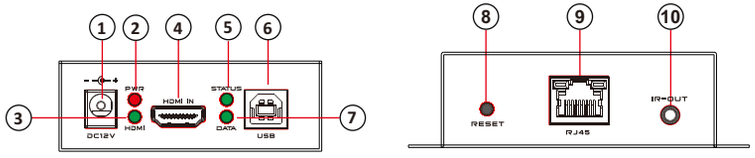
- OLC-HD2111E-KVM-TX/RX consists of a transmitter and a receiver, it's used in pairs
- Support HDMI signal up to 3840x2160@60Hz
- Support USB2.0 Mouse, realize KVM remote control function
- Transmit HDMI signal through Cat5e/6 or above cable, 2K/4K resolution can extend the distance up to 100 meters
- Support infrared transmission, realize remote control function
- UTP cable transmitting power are supported. When used in pairs, only need to power for TX side,the RX side starts working automatically after connection
- Easy to operate, plug and play, no need to configure

Overview

The OLC-HD2111E-KVM is a HDMI cable extender which adopts the new generation of HDMI uncompressed extending technology. This HDMI extender transmits the HDMI Signal and KVM controlling Signal through Cat5e/6 cable or above, 2K/4K resolution can extend the distance up to 100 meters. The product should be used in pairs, consisting of OLC-HD2111E-KVM-TX as transmitter and OLC-HD2111E-KVM-RX as receiver intelligently matching with the optimizing HDMI signal transmission resolution, downward compatible with USB1.1 keyboard mouse function. Supporting infrared remote controlling and USB2.0 Keyboard Mouse remote controlling function which can extend the distance by connecting the HDMI signal source. As the OLC-HD2111E-KVM supports PoE power supply, you do not need extra power at the RX side, which simplified the progress, saved the cost of the connection and solved the wrong-connection problem that may cause any abnormal thing or waste in electricity, and surely improved the efficiency of the product.

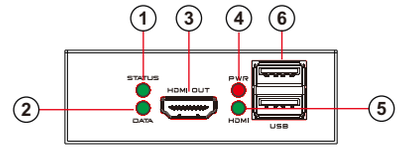
Panel View

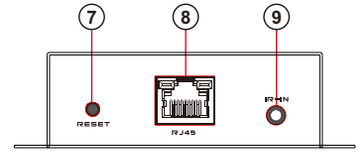
Transmitter



1. Power input-DC12V
2. Power on indicator
3. HDMI link indicator
4. HDMI video input
5. Working status
6. USB signal input port
7. Data transfer indicator
8. TX reset button
9. RJ45 port, connects with Cat5e/6 cable
10. IR remote control signal output interface

Receiver





1. Working status indicator
2. Data transfer indicator
3. HDMI video output
4. Power on indicator
5. HDMI link indicator
6. USB ports, connect with keyboard and mouse
7. Reset button, to reset the whole device
8. RJ45 port, connects with Cat5e/6 cable
9. IR remote control signal input interface

Quick Setup Guide

Package Contents

1) OLC-HD2111E-KVM-TX/OLC-HD2111E-KVM-RX: 1pc
2) Infrared module (receiving and transmitting): 1 set
3) 12V 1A power adaptor: 1pc
4) User manual: 1pc
5) USB cable: 1pc

1.Connect the male end of HDMI cable to video source.
Connect the female end of HDMI cable to “HDMI IN” of OLC-HD2111E-KVM-TX.
Connect UTP cable to RJ45 port of OLC-HD2111E-KVM-TX.
Connect the other end of UTP cable to RJ45 port of OLC-HD2111E-KVM-RX.

2.Video source is the operable and controllable devices with USB like desktop PC and so on.
Connect one end of USB line to video source and connect the other end to OLC-HD2111E-KVM-TX.
Video source is the devices with infrared control like blue-ray machine.
Connect infrared emission module to “IR OUT” port of OLC-HD2111E-KVM-TX.

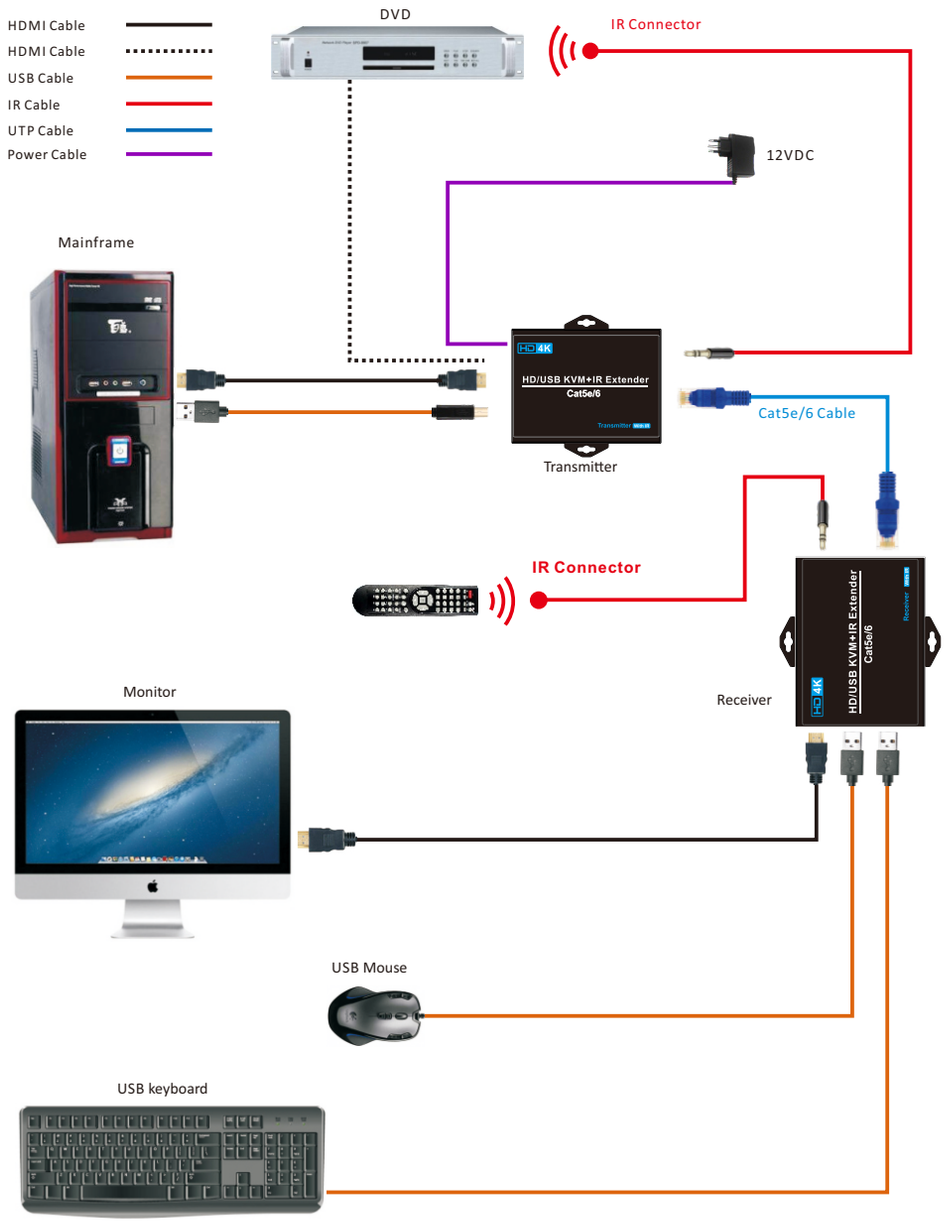
3.Use another HDMI cable, connect the male end to “HDMI OUT” of OLC-HD2111E-KVM-RX, then connect the other end to a display device which has an HDMI interface;
According to different video source devices, please insert the keyboard and mouse which are with USB interface into the USB port or insert an IR receiver module to the “IR-IN” port.

4.Make sure the connections mentioned above are finished properly.
Then please power up the OLC-HD2111E-KVM-TX or OLC-HD2111E-KVM-RX with 12VDC, if the display device works with good image, then it means the whole connection is successful.

5.Video source control function: If the video source device with remote control function,insert one end of infrared receiving component into “IR IN” port of OLC-HD2111E-KVM-RX and the other end at IR Remote Controller;
Insert one end of infrared transmitting component into “IR OUT” port of OLC-HD2111E-KVM-TX and the other end at the corresponding infrared receiving component.
IR remote control function starts after above proper operation.

If the HDMI source device with mouse and keyboard, using the equipped USB cable to connect the USB port of OLC-HD2111E-KVM-TX and HDMI source device, then insert the keyboard or mouse which is compatible with USB protocol to the USB port of OLC-HD2111E-KVM-RX.

Application Diagram



Performance Parameter

Description	Parameter
Model Number	OLC-HD2111E-KVM
HDMI Version	HDMI1.4
Highest Resolution	3840x2160@60Hz
HDMI Port	2K/4K resolution can extend the distance up to 100 meters, through Cat5e/6 cable or above
USB Port	USB2.0 keyboard, mouse, compatible with USB1.1
IR Interface	Support 38k carrier infrared remote control
PoE Function	Support PoE power supply, no need extra power at RX side Maximum transmission distance is 100m
Power Indicator	Red, ON: powered on; OFF: no power
HDMI Indicator	Green, ON: HDMI port linked; OFF: no link
Working status Indicator	Green, ON: Devcie works fine; OFF: Abnormal
Working Temperature	0 ~ 70
Power Supply	DC12V/1A
Power Consumption	TX ≤5W; RX ≤5W
ESD protection	Contact discharge: ± 2KV Air discharge: ±4KV Standard: IEC61000-4-2
Humidity	0℃ ~ 95℃
Housing Material	Aluminum
Body Color	Black
Dimension	TX: 102mm x 78mm x 28mm RX: 102mm x 78mm x 28mm

Warning!

Important Product Warnings:

1. Please fix in the final position after testing is finished normally.
2. Before powering the items, please make sure the connection is correct.

Safety Instructions

1. Before using the items, please read and keep the instruction carefully.
2. Before powering the items, please make sure the connection is correct in advance.
3. Do not use the product near water, heat, etc.
4. Please clean with the dry cloth only.
5. It is forbidden to open the machine by the laypeople.
6. If any quality problem of product, please contact the maintain personnel in time.