

# HD Video Multiplexers

## 1 Product Overview

The device is a high-performance HD quad video multiplexer. The main function is to convert the 4 HDMI signals input to the HD video multiplexer into one HD HDMI signal output, so that 4 digital signals are displayed on a HD display unit at the same time. Through hot keys, The device can use a set of keyboard and mouse Control 4 signals to realize KVM function. The device also realizes mouse through function. In 4 split mode, the mouse can be moved freely in four windows like one screen. In addition, The device also has seamless switching function. Quickly switch between audio and video. The device HD video multiplexer supports various display units with HD interface such as projector, LCD monitor, DLP, plasma, full-color LED.

The device HD video multiplexer is a standard product with many applications in the market. The product is mainly used in video conferences, teaching, exhibitions, stocks and other places that need to use a single display unit to display multiple HD signals at the same time.

## 2 Main Function

- ✚ A single display unit supports four-split, left-right two-split, up-down two-split, full-screen display modes;
- ✚ 4 HDMI signal input, HDMI signal embedded audio;
- ✚ 1 HDMI output, HDMI signal embedded audio, support signal output with maximum resolution of 1920 \* 1080;
- ✚ one independent 3.5mm audio port output can be connected to the sound;
- ✚ Audio follow screen switching function, or switch audio separately in split mode;
- ✚ 2 USB signal outputs, USB supports connecting mouse and keyboard;
- ✚ KVM switch function, switch screen display mode, audio switch, quad split mouse through function by keyboard hot key;

- ✚ 4 In split mode, the audio follows the mouse movement to switch functions;
- ✚ Support seamless switching of the second-cut function, all single-screen or different split modes switch without black screen;
- ✚ It also supports chassis keys, infrared remote control, and keyboard hotkey control functions;

### 3 Detailed Introduction

#### 3.1, Screen division function

Support 4 signals displayed on the same display unit at the same time, and realize a certain signal switch to full screen display, two screen split display, as shown below:



Quad mode



Full screen



Left-right of POP



Top-down of POP

#### 3.2, Supports 1920\*1080 HD input and output signals

The device HD video multiplexers supports 4 HDMI input signal , HD video supports interlaced and progressive input. Products up to ultra high resolution of 1920\*1080@ 60HZ signal input, and downward compatible; all input signals through professional-level image processing chip, HDMI signal of 60HZ unified progressive output, the maximum output resolution support 1920\*1080 @ 60HZ, At the same time the user can choose other resolutions according to the needs , such as 1920 \* 1080,1280x720.

### **3.3 , Mouse through function**

The HD video multiplexers is the only video multiplexers on the market with a mouse-through function. This function enables the mouse to freely move between 4 windows in the 4-segment mode, and the keyboard simultaneously follows. This function will Widely used in medical, teaching, stock and other places that need to operate multiple windows in real time.

### **3.4, Seamless switching function**

The HD Quad video multiplexers has seamless screen switching function, which can seamlessly switch between various screens quickly and smoothly to meet the switching requirements of customers.

### **3.5, KVM switch function**

Only a set of mouse and keyboard can be used to control the splitter for almost full functions, such as the keyboard hotkey combination to switch a certain signal to single-screen display, quarter-screen display, separate audio switching, In the four-split screen mode, the audio follows the mouse movement to switch functions , and mouse-through function in quad-screen mode. The function of this product will be widely used in various video conference systems and other places. Users will be more convenient, more efficient, save display equipment and save more operating space when using this product.

### **3.6, Audio and video switching functions**

The HD Quad video multiplexers except can display video signals, but also supports audio and image synchronization switch or under quad mode select a picture corresponding audio play, at the same time, it supports one 3.5mm independent audio port output for audio connection.

### **3.7, Control method**

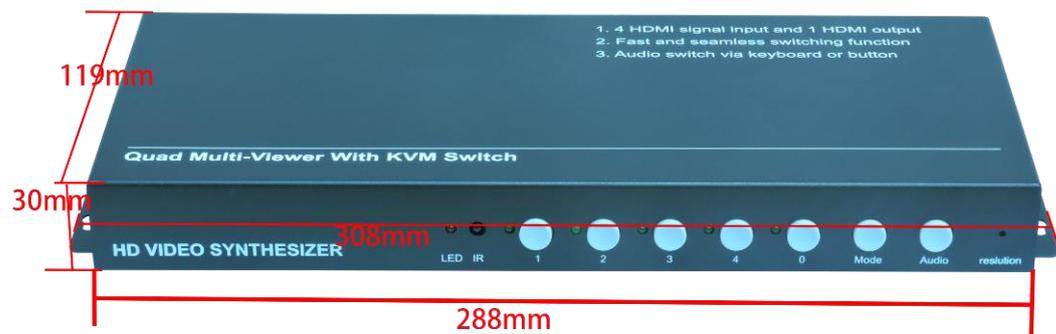
Support keyboard hot key, infrared remote control, and chassis key functions.



## 5 System topology



## 6 Product Picture and size



## 7 HD video multiplexers technique datd

name	specification
Signal input	
Input port	4HDMI、4USB
Resolution	HDMI support highest resolution of 1920*1080@30HZ and downward compatibility
Color depth	24bit,1677 ten thousand
output	
interface	1 HDMI connect display device and support video、 audio sync output; One 3.5 mm audio right and left stereo 2 USB 2.0,one connect mouse the other connect keyboard
Resolution	Can choose, 1920*1080@60HZ, 1280*720@60HZ
Color depth	24bit,1677 ten thousand
Control mode	Chassis keys, remote control, keyboard hot keys;
voltage	DC 12V
dimension	288mm(L)*30mm(H)*119mm(W)
Weight	0.75KG
Power	No more than 15w