

## TK-MT4000L UHD 4K Video Multiplexers

### 1 Product Overview

TK-MT4000L is a high-performance UHD 4K quad video multiplexers. It supports four 4K signals to be displayed on the same 4K display unit at the same time. The product supports 4 HDMI inputs, 1 DP input, and supports 3rd and 4th HDMI ports and DP input with a maximum resolution of up to 3840x2160@60HZ , 1st and 2nd support 3840x2160@30hz Downward compatibility; 1 HDMI 2.0 output, with a maximum output resolution of up to 3840x2160@60HZ.

TK-MT4000L UHD video multiplexers is use a relatively large number in standard products currently on the market ,products are mainly used in video conferencing, teaching, exhibitions ect ,where need to use single display unit simultaneously display multiple UHD signals workplace.

### 2 Main Function

- ✚ Four-screen split function, displaying 4 screens on a single screen at the same time;
- ✚ 4 HDMI signal inputs, 1 DP signal input, 3rd and 4th HDMI supports 3840\* 2160@60HZ 1 DP supports 3840\* 2160@60HZ Other supports 4k30Hz and is backward compatible;
- ✚ 1 HDMI 2.0 output, with a maximum output resolution of 3840x2160@60HZ At the same time, the output resolution can be switched to 1920x1080@60HZ , 2560x1440@60HZ , 3840x2160@30HZ , 3840x1080@60hz , 1280x720@60HZ ;
- ✚ Support 3.5mm headphone jack left and right channel stereo output;
- ✚ In the left-right and up-down split modes, it supports multiple modes such as non deformed display, point-to-point display, and screenshot non deformed display;
- ✚ Support image fixed position 、PIP、 POP function
- ✚ It also supports chassis buttons, infrared remote control, and RS232 serial port 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, fixed mode PIP display function, as shown below:



Quad mode



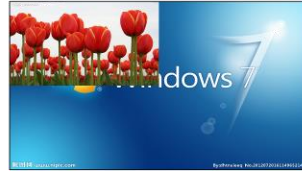
Full screen



Left-right of POP



Top-down of POP



Left-up of PIP



Right-up of PIP



Left-down of PIP



Right-down of PIP



Center of PIP

#### 3.2, Supports 3840 \* 2160 HD input and output signals

TK-MT4000L HD video multiplexers supports 4 HDMI input signal , 1st and 2nd support 4K@30HZ The third and fourth channels support 4K60HZ. Supports 1 4K60HZ DP input. High definition videos support interlaced and line by line input. The product supports a maximum of 3840\* 2160@60HZ Ultra high resolution signal input and backward compatibility; All input signals are processed by professional grade image processing chips to output a unified 60Hz HDMI signal line by line, with the highest output resolution supported 3840X2160@60HZ At the same time, users can choose other resolutions according to their needs, such as 1920\* 1080@60hz The 1280x720@60hz The 2560x1440@60hz The 3840x2160@30hz The 3840x1080@60hz .

**3.3 , Two part non deformable display and point-to-point display**

The conventional two screen video multiplexers, in the two screen display mode, causes image compression deformation due to the width changing without changing the height of the image, or the height changing without changing the width. But TK-MT4000L can cause partial image loss while ensuring that the image is not distorted, and this function is widely used in the field of microscopy or medical treatment.



Normal mode



Screenshot mode



Non deformable mode



Point-to-Point Mode

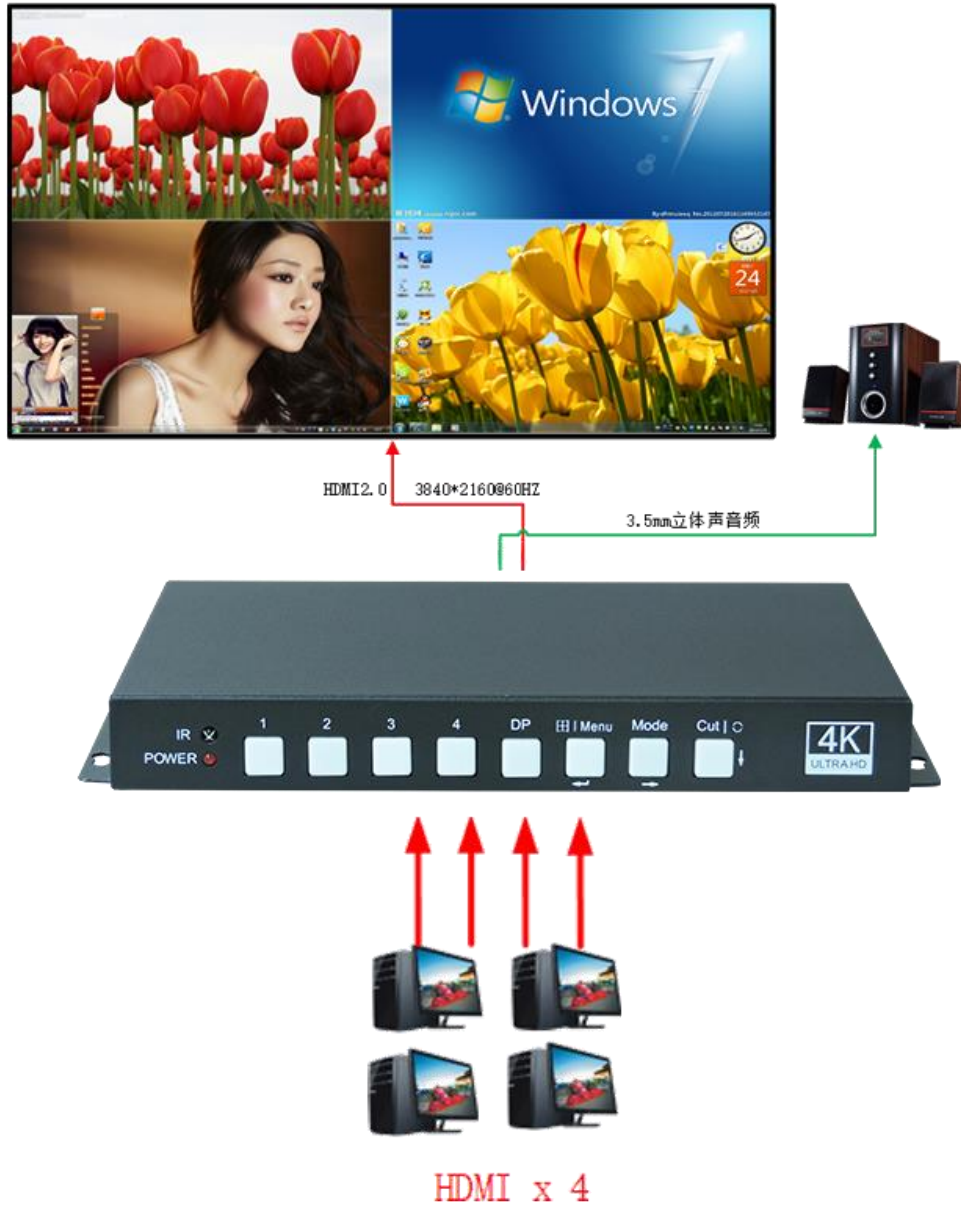
**3.4, Audio and video switching functions**

TK-MT4000L 4K 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, which to fill the gaps that pre HD video multiplexers can not be achieved audio capabilities.

**3.5, Control method**

**Support infrared remote control, and chassis key functions.**

5 System topology



6 Product Picture and size





## 7 TK-MT4000L UHD video multiplexers technique data

name	specification
Signal input	
Input port	4HDMI、1DP
Resolution	The 3rd and 4th HDMI and DP channels support 3840* 2160@60HZ Other supports 4K30HZ and is backward compatible with various resolutions
Color depth	24bit,1677 ten thousand
PIP、POP mode	Fixed model
output	
interface	1 HDMI connect display device and support video、 audio sync output; One 3.5 mm audio right and left stereo
Resolution	Canchoose3840*2160@60HZ, 3840*2160@30HZ, 3840*1080@60hz, 2560*1440@60Hz, 1920*1080@60HZ, 1280*720@60HZ
Color depth	24bit,1677 ten thousand
Control mode	chassis keys, infrared remote control;RS232;
voltage	DC 12V
Product size	188mm (length) x 125mm (width) x 22mm (height) (0.5KG)
Power	No more than 15w