

TK-MT41L HD Video Multiplexers

1 Product Overview

TK-MT41L 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. In addition, TK-MT41L also has seamless switching function. Quickly switch between audio and video. TK-MT41L HD video multiplexer supports various display units with HD interface such as projector, LCD monitor, DLP, plasma, full-color LED.

TK-MT41L 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;
- ✚ 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;

3 Detailed Introduction about TK-MT41L

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

TK-MT41L 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, Seamless switching function

TK-MT41L 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.

3.4, Audio and video switching functions

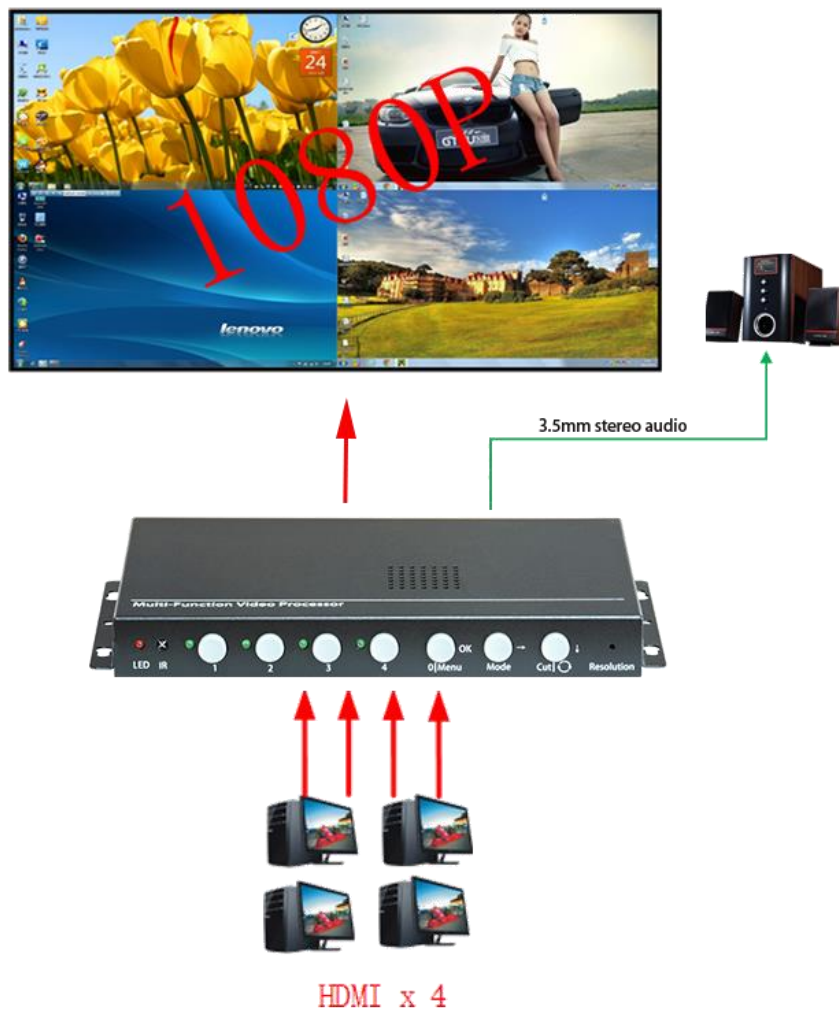
TK-MT41L HD Quad video multiplexers except can display video signals, but also supports audio and image synchronization switch or under quad mode select a picture corresponding audio play, at the same time, it supports one 3.5mm independent audio port output for audio connection.

3.5, Control method

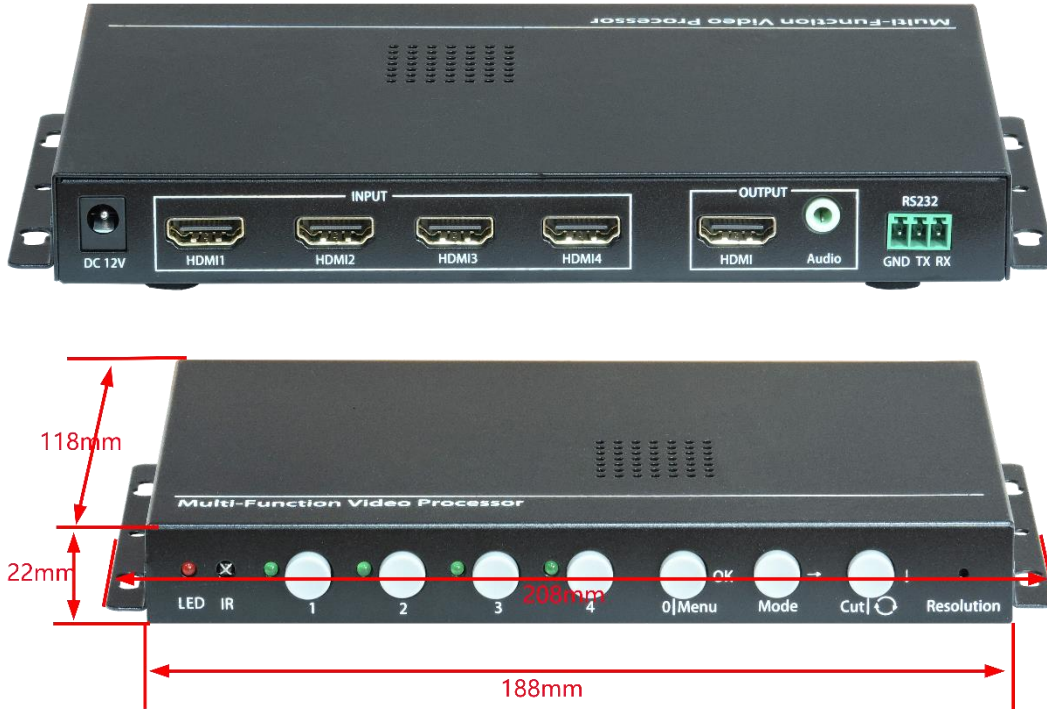
Support keyboard hot key, infrared remote control, and chassis key functions.



5 System topology



6 Product Picture and size



7 TK-MT41L HD video multiplexers technique data

name	specification
Signal input	
Input port	4HDMI
Resolution	HDMI support highest resolution of 1920*1080@30HZ and downward compatibility
output	
interface	1 HDMI connect display device and support video、 audio sync output; One 3.5 mm audio right and left stereo
Resolution	Can choose, 1920*1080@60HZ, 1280*720@60HZ
Control mode	Chassis keys, remote control;
voltage	DC 12V
dimension	188mm(L)*22mm(H)*118mm(W) 0.5KG
Power	No more than 15w