
TK-MT91 HD 4K Video Multiplexers

Product Introduction

TK-MT91 is a high-performance video multiplexer. Its main function is to convert the nine HDMI signals input to the video multiplexer into one high-definition HDMI signal output, which is displayed on a high-definition display unit. The first to eighth input channels support 1080P signals, and the ninth channel supports 4K30Hz signals; Through keyboard hotkeys, the TK-MT91 can control 9 signals with a set of keys and mice, achieving KVM function. The TK-MT91 also implements mouse traversal function, allowing the mouse to move freely in nine windows like one screen in 9-split mode. In addition, the TK-MT91 also has seamless switching function, which can quickly switch between audio and video. The TK-MT91 high-definition video multiplexer supports projectors, LCD displays DLP, Various display units with high-definition interfaces, such as plasma and full-color LED.

The TK-MT91 high-definition video multiplexer also supports HDBaseT signal extension function, which can be connected to the R end of the HDBaseT extender through a network cable 4K@30Hz Extend the signal by 100M and output two HDMI signals simultaneously; At the same time, it also supports KVM function extension and can remotely control the video multiplexer with keyboard and mouse.

The TK-MT91 high-definition video multiplexer is currently one of the most widely used products in the market. The product is mainly used in video conferences, teaching, exhibitions, stocks, and other places where a single or two display units need to display multiple high-definition signals simultaneously.

Note: KVM and HDBaseT extension modules are optional features.

Main Function

- The 1st to 8th channels support 1080P signals, the 9th channel supports 4K30Hz input, and the HDMI signal is embedded with audio;
- 1 HDMI output, HDMI signal embedded with audio, output support up to 4K@60Hz Signal output;
- The display unit supports nine split, eight split, six split, four split, and any screen full screen display mode;
- Support HDBaseT signal network cable extension function, up to 4K30Hz HDMI signal extension of 100M, extending output of two HDMI signals; Simultaneously supporting KVM extension function; (HDBaseT function is an optional feature)
- Support single signal picture in picture display, image of any size and

position function;

- It supports superimposed subtitles, subtitle size, arbitrary position, static movement function, subtitle background color, font color, and transparent background color;
- Support multiple fixed mode displays (non customizable); Support mode save call function;
- One independent 3.5mm audio port output can be connected to a speaker, with audio switching function following the screen, or switching audio separately in split mode;
- Support multiple control methods such as remote control buttons, keyboard and mouse, RS232, web pages, etc;
- KVM switching function, using keyboard hotkeys to switch screen display modes and eight segment mouse traversal function;
- Support seamless switching of instant switch function, all single screen or split mode switching without black screen;

Detailed Introduction

1、Screen segmentation function

Support multiple split screen display modes and achieve signal amplification display, as shown in the following figure:



Nine split display



Six screen display



Eight split display



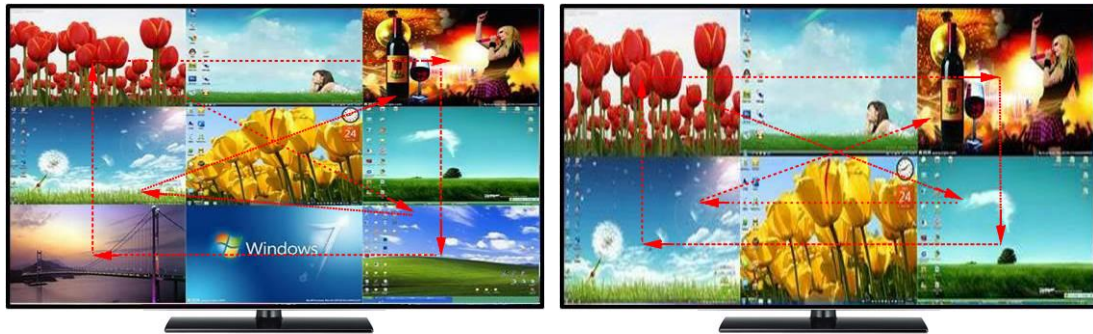
Single screen display

2、Supports input and output of 4K high-definition signals

The TK-MT91 high-definition video multiplexer supports 9 HDMI signal inputs, and high-definition video supports interlaced and progressive inputs. The product supports 1st-8th 1080P channels and the 9th channel 4K@30hz. The resolution signal input is compatible downwards; All input signals are processed by professional level image processing chips to output HDMI signals with 60Hz line by line, and the highest output resolution supports 4K60Hz. The output resolution can be customized according to user needs.

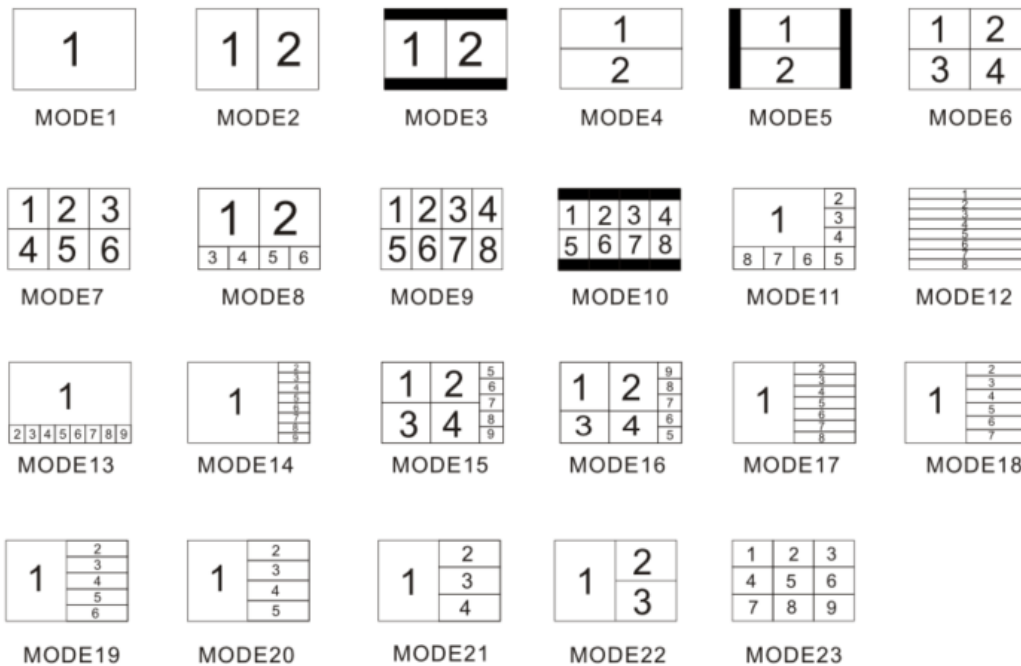
3、Pass Through Function

HD nine picture splitter is an image splitter with mouse crossing function on the market. This function enables the mouse to traverse freely between windows in multiple modes such as nine division, eight division, six Division, four division and two division, and the keyboard to follow synchronously. This function will be widely used in medical treatment, teaching, stock and other places where multiple windows need real-time operation.



4、Multiple segmentation modes

The video multiplexer supports multiple fixed mode switching.



5、Seamless switching function

The TK-MT91 high-definition video multiplexer has seamless screen switching function, which can quickly and smoothly switch seamlessly between different screens, meeting customers' switching requirements.

6、KVM switching function

Only one set of mouse and keyboard is needed to control the splitter, such as keyboard hot key combination to switch the signal single screen display, two, four, six, eight, nine split screen display, and mouse crossing function in split screen mode. The function of the product will be widely used in various video conference systems and other places. When users use the product, it will be more convenient, more efficient, save more display equipment and save more operating space.

7、HDBaset signal extension function

The video multiplexer has HDBaste signal extension function. By connecting the R end of an HDBaste extender through a network cable, the HDMI signal and KVM keyboard and mouse function can be extended to the remote end, and two HDMI signals can be output. The keyboard and mouse can operate computer content and switch screen modes, achieving remote browsing and KVM control functions. The HDBaste function also supports infrared and RS232 signal extension.

8、Subtitle overlay function

The divider can superimpose subtitles at any position, and the text can reach 500 words at most. Set the subtitle movement mode, save 21 subtitles at most, and switch freely. You can change the text size and color; Change subtitle background color, transparency, etc.

9、PIP Mode

The video multiplexer can open any signal source and display it at any position, and the window size can be adjusted arbitrarily.

10、Audio and video switching function

The TK-MT91 video multiplexer not only displays video signals, but also supports synchronous switching between audio and image, or selecting one of the corresponding audio playback modes. It also supports one independent 3.5mm audio port output for connecting to the audio system.

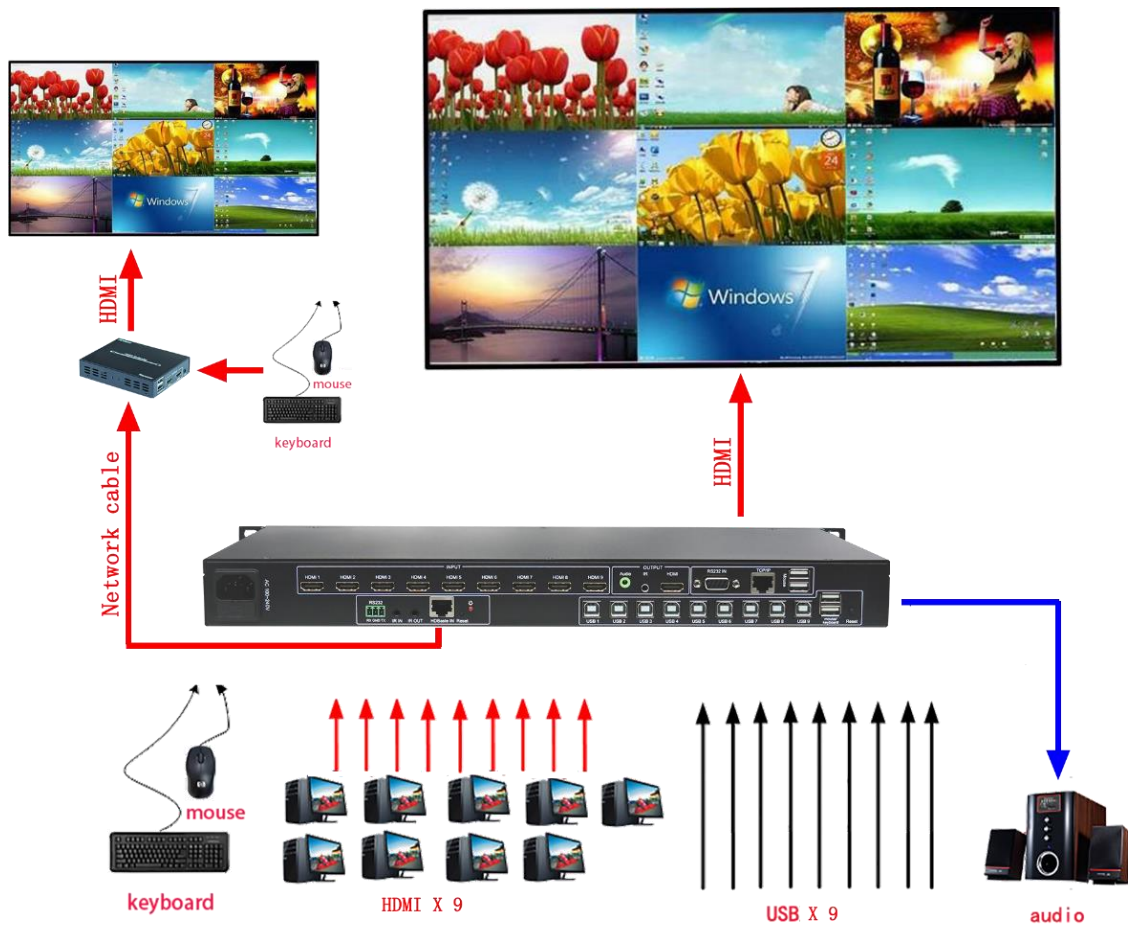
11、Control method

The video multiplexer supports chassis buttons, remote control, RS232, web page control, keyboard hotkeys, and mouse control.

Product images



System topology diagram



Technical specifications

name	specifications
HDMI input	
Input Interface	9 HDMI (embedded audio), 8 USB input
resolution	1-8 channels support 1920* 1080@60hz Input, 9th way 4K@30hz Input, backward compatible with various resolutions
output	
output interface	1 HDMI (embedded audio) output; 2-channel USB output connected to mouse, keyboard or other devices 1 channel 3.5mm audio port output
Network interface	HDBaste Ethernet cable extension and KVM keyboard and mouse extension function;
Output Resolution	3840*2160@60HZ, 3840*2160@30HZ, 2560*1600@60Hz , 2560*1440@60Hz, 1920*1080@60HZ, optional;
Output refresh rate	60Hz
control mode	Mouse, keyboard hotkeys; Remote control; RS232; Chassis buttons; web control
Electrical characteristics	Input voltage: 100-220V AC voltage
Product size and weight	444mm (length) x44mm (height) x242mm (depth) Weight: 2.6KG
Packaging size and weight	565mm (length) x350mm (width) x140mm (height) (weight: 3.6kg)
power consumption	10W (without optional function) 18W (with extension function)