

MA3000

UHD Multi-function HDMI Matrix

(Model : 4K@60HZ HDMI 4-4 8-8 8-16 16-16)

Overview

Ultra High definition 4K@60HZ HDMI multi-function matrix is a high-performance HD video signal exchange equipment, using integrated structure and plug-in structure, the product supports 4K HDMI signal input and output, can be used for multiple high-definition digital video signals and analog video signal input and output exchange. The output of any signal can choose any signal source without interfering with other output, image high-fidelity output.

It is flexible and easy to install, and has RS232 communication and Ethernet (optional) interface. It has a fast switching function, instantly switch any input signal source, it with splicing screen and related control software, can achieve any splicing mode; It supports a variety of control methods: serial port control, network control, mobile APP control; Can be widely used in all the need for HDMI signal distribution and combination occasions, the application fields involve military, multimedia teaching, television teleconference, finance, scientific research, meteorology and other fields.



Product Features

- ◆ All digital zero compression digital switching
- ◆ Transmission resolution 3840*2160@60Hz HD ultra HD digital pixels
- ◆ Support mobile APP control matrix
- ◆ Network control port, convenient remote control, real-time display of input and output status;
- ◆ Through the splicing software, to achieve the signal splicing. You can define the scene and call the scene through the splicing software.
- ◆ RS-232 serial port control, support serial port loop output to large screen
- ◆ With power failure memory function
- ◆ Front panel LCD status display report
- ◆ Convenient front panel access operation, can prestore multiple group switching mode
- ◆ Power failure protection function
- ◆ Video input port with clock/data recovery and reorganization
- ◆ Can monitor the input status of each input channel in real time
- ◆ Optional dual power supply redundancy configuration, ensure the stability and reliability of the power supply
- ◆ HDMI input and output ports support HDCP protocol
- ◆ Support a variety of splicing boxes for image splicing

- ◆ Support simultaneous switching of sound channel and image channel
- ◆ Support input and output port mapping function, the port is bad, you can make up for it, do not need to remove all the machine to replace, saving time and effort

Key function

1. Support HDMI input balance buffer and output drive, input 20 meters line, output 30 meters line
2. Support front panel LCD 128X64 point display
3. Support various working states of the menu setting matrix. The front panel keyboard and infrared remote control can access the menu, and only 4 keys are needed to complete the operation.
4. Each way supports HDCP and can access encrypted Blu-ray discs.
5. Support front panel touch mechanical button, game console feel.
6. Remote control, button, after the successful serial operation buzzer "drop" sound, you can judge whether the operation is successful through the sound.
7. Support mobile phone control APP switching function
8. Support RS-232 serial port ring function, you can use a serial port to connect the splicing screen. Connect the splicing screen first, and then connect the matrix. Or connect the matrix first, then the Mosaic screen. You can connect the large screen to the matrix through the network cable.
9. Support LAN network control function, multiple computers control at the same time.
10. Support all interfaces such as HDMI input and output electrostatic surge protection
11. Support infrared control, optional infrared extension, the machine placed in the cabinet and table under the control
12. Real-time display on the LCD screen input/output interface status monitoring, your input port has no signal to come, can be viewed from the matrix front panel, engineering projects, the image is not displayed, you can know through this function.
13. Support the front panel LED light activity trigger state display, there are external trigger RS-232, keys, infrared, network, mobile phone and other information, it will flash.
14. Support the company LOGO custom, you can download the company's LOGO to the matrix, customize their own characteristics.
15. Embedded RTOS operating system, product stability, easy upgrade and maintenance.

Specification parameters

Electrical parameters	
Signal interface	HDMI-A
HDMI version	HDMI2.0
Bandwidth	300MHz
Maximum resolution	3840x2160@60Hz backward compatible with all resolutions
Bit Clock Jitter (Clock Jitter)	<0.15 Tbit (1080p@60)
Bit rise time (RiseTime)	<0.3Tbit (20%- 80%)
Bit drop time (RiseTime)	<0.3Tbit (20%- 80%)
Maximum transmission delay	5nS
Signal strength	T.M.D.S +/- 0.4Vpp
Differential impedance	100 ohms
PC control	
Serial control interface	RS-232, 9-pin female D interface
Baud rate and protocol	Baud rate: 9600, Data bit: 8, Stop bit: 1, none parity bit
LAN control interface	RJ-45 female interface
Power Supply	
Maximum power consumption	30W
Power adapter	AC170~245V@50~60HZ