



V12 is one of the latest Magnimage high performance full 4K video switcher. The hardware architecture is based on large capacity high-speed FPGA and high-speed digital matrix, and internally adopts RGB 24bit/60Hz processing. With the advanced scaling engine built-in, It supports seamless switching among multi-screens with an excellent image quality and realistic color and no latency. Adopt hybrid matrix input, the clients can have a variety of 4K\*2K input module customization options, support 4K\*2K@60Hz 4:4:4 inputs and output. It also supports real-time monitoring for the input and output.

Cooperate with MIG-H9 console, it can realize fade switch among multi-layers or multi-scenes, widely applied in the auto shows, commercial meetings, product launches and stage performances etc.

### **Product Feature**

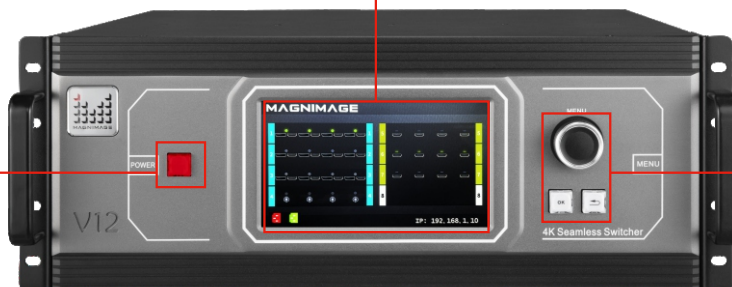
- ▮ 8\*4K program output, 2\*4K AUX output
- ▮ 1\*Multi-window preview, preview interface support customize, 1\*HDMI console monitor
- ▮ Support 10G OPT output
- ▮ Max. 16 input ports of 4K\*2K@60Hz 4:4:4
- ▮ Mixed use for 4K\*2K cards, Meet a variety of input requirements
- ▮ Max. 24 layers for single device, Max. 8 layers for 4K layers
- ▮ 8 background(pixel to pixel)
- ▮ HDCP1.4&2.2
- ▮ Input EDID management
- ▮ Image crop,Layer zoom
- ▮ Support layer feathering function
- ▮ Support chroma key and luma key
- ▮ Text overlay
- ▮ Edge blending
- ▮ External synchronization, Multi-machine cascade
- ▮ Dual redundant power supply

## Switcher Introduction

### Menu Display

Show V12 current operation status, able to check input information/electric status/firmware version,etc.

### Power Switch



### Menu Keys

Including knob, OK, return button for menu selection and operation

### Inputs

### Dual power backup

### GENLOCK



### Program

### AUX

### LAN Cable

### USB

### RS 232

### AUDIO

## Software Control

V12 video switcher can be controlled by software, easy and quick operation.



LAN Cable



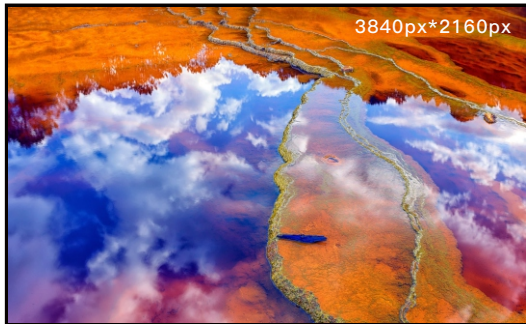
## ▮ Various Inputs and Outputs

### 📦 Inputs

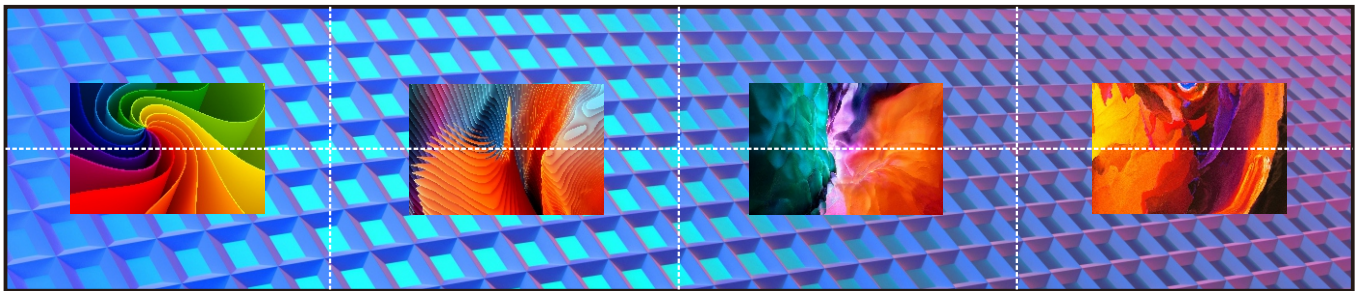
Max. 4 input card slots, user can select input card freely.

2K input card including 4\*DVI; 4K input card including 4\*DP/HDMI, 2\*DP/HDMI + 2\*SDI mixed.

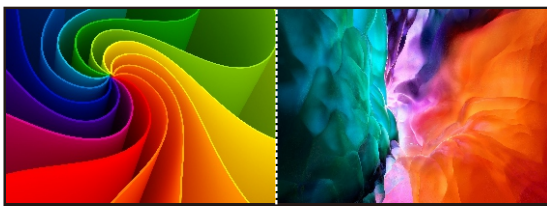
Single port 4K\*2K/60Hz



### 📦 Outputs



8 program output: can customize output resolution and mosaic layout(4\*2 or 2 groups of 2\*2), Max. 24 layers for program output.



2 AUX output:  
can select input source independently to  
corresponding output, support quick switch.

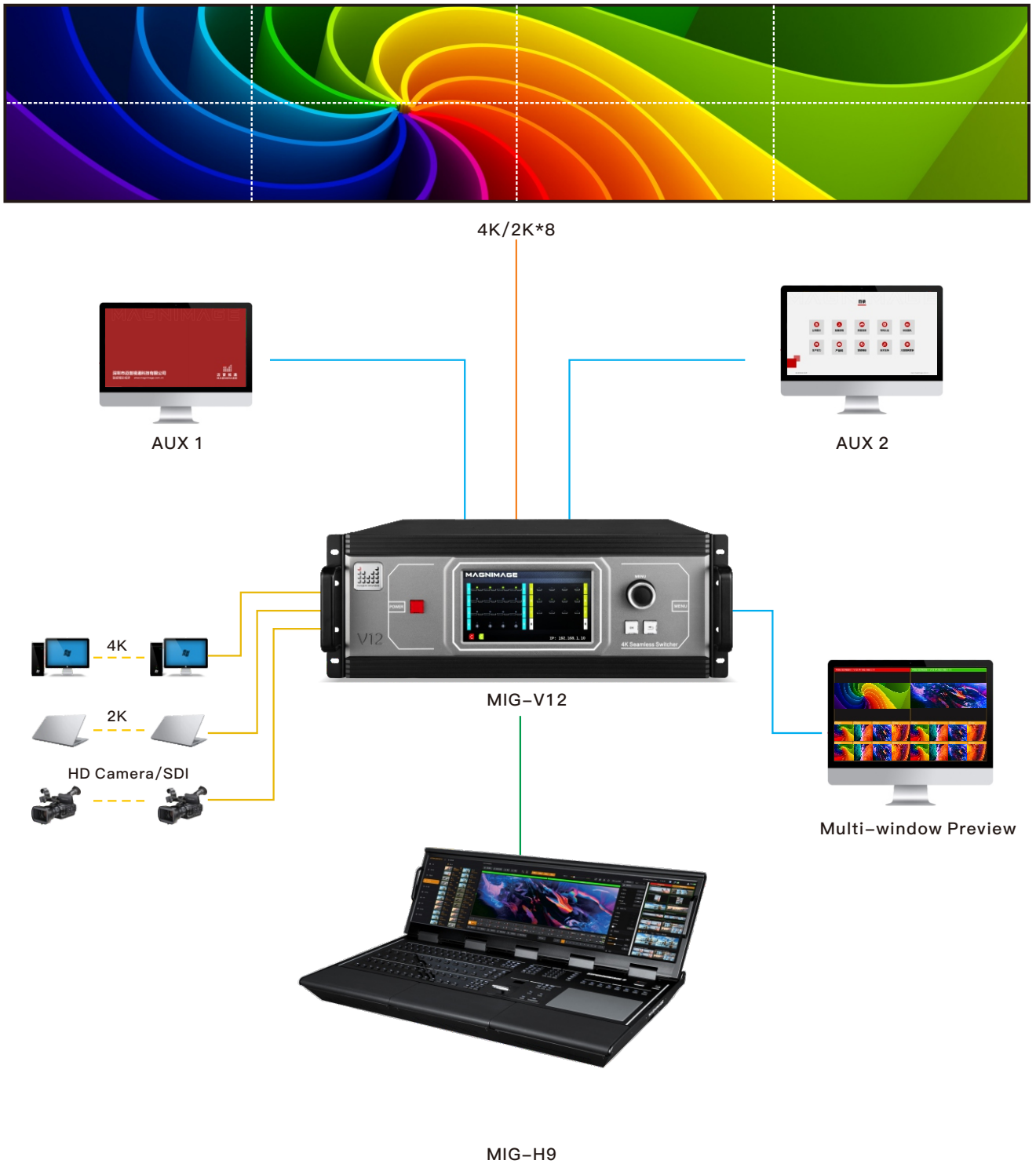


1 HDMI monitoring  
port for console

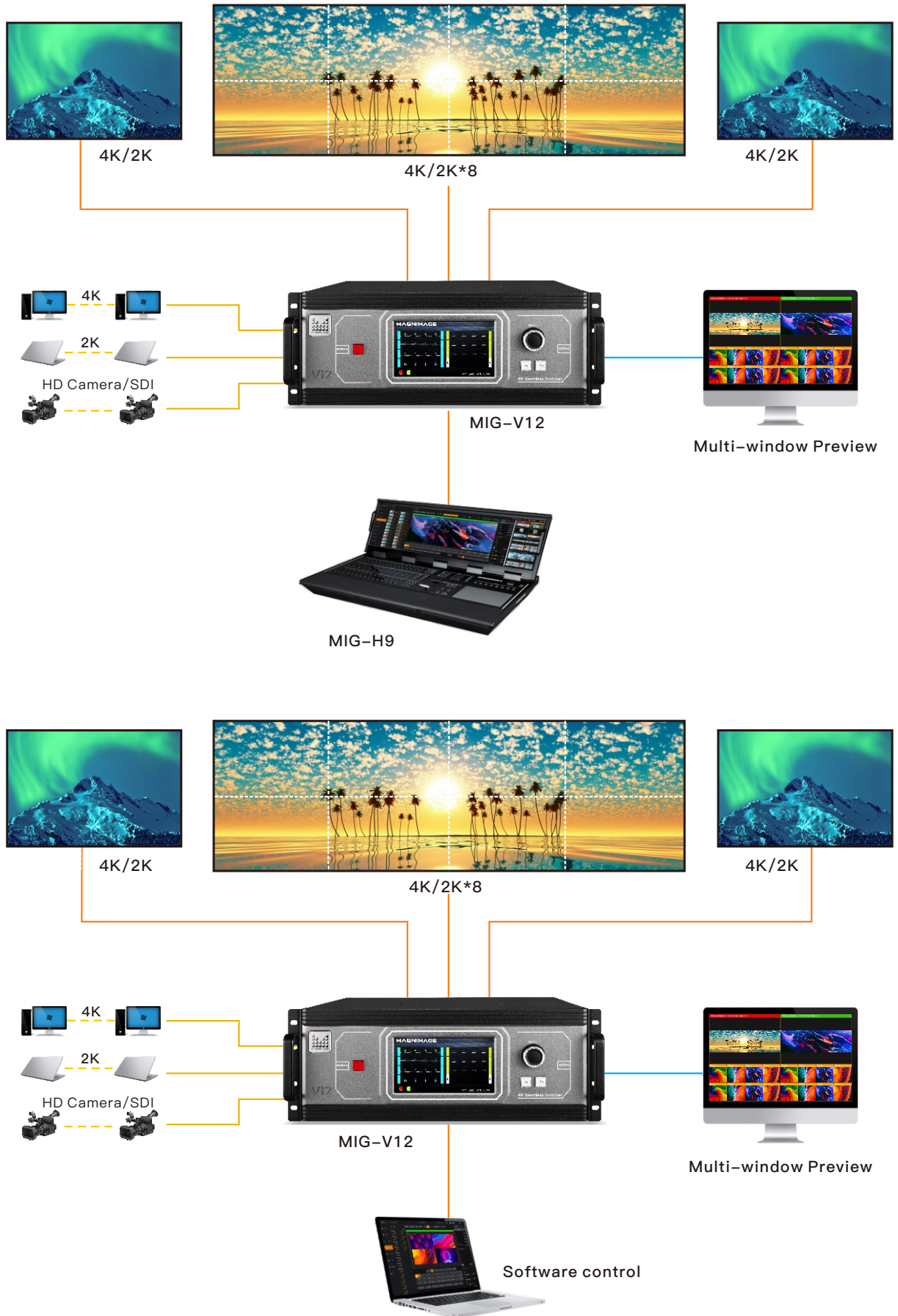


1 Multi-window  
preview output

System Connection Diagram

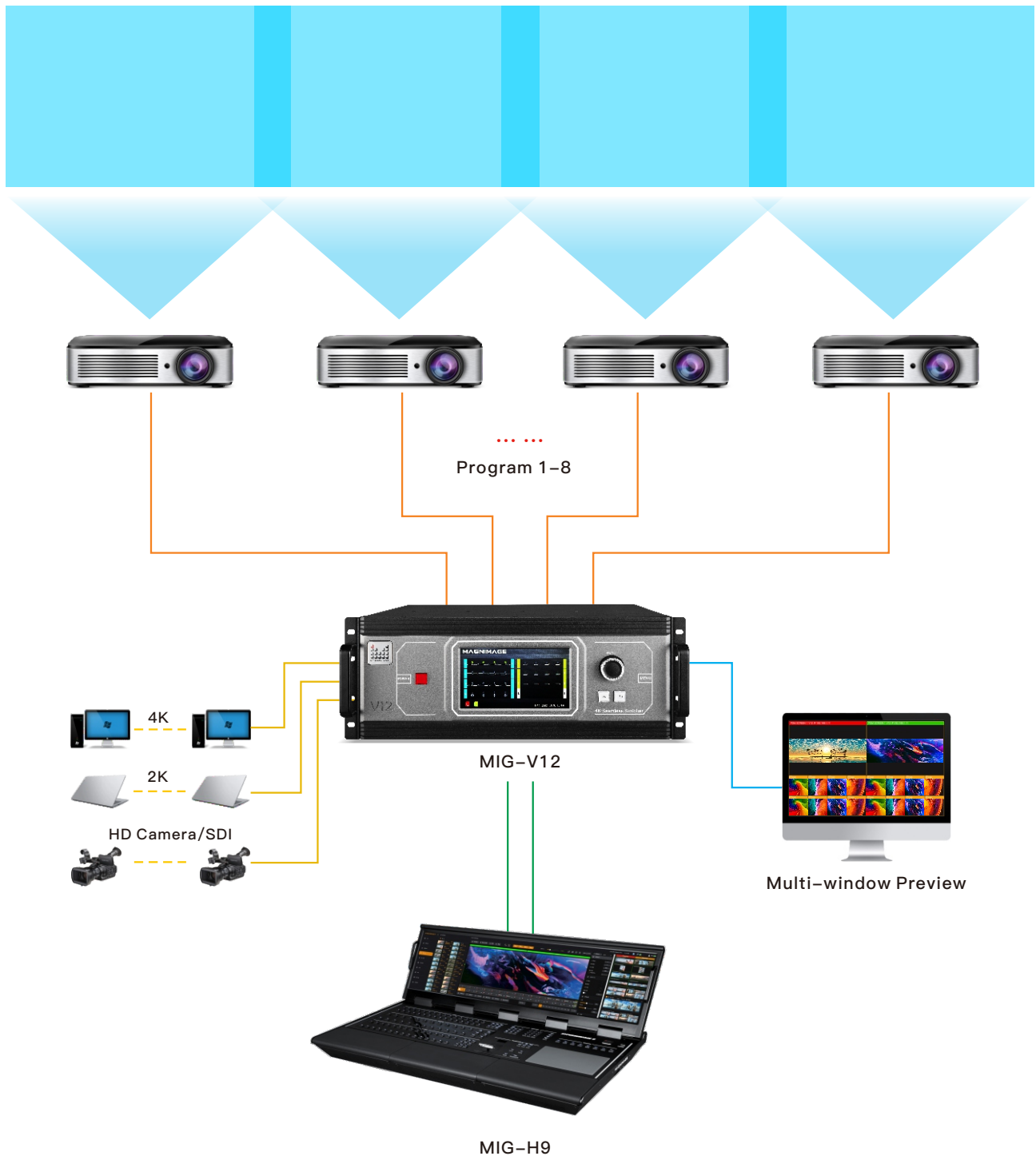


System Connection Diagram



## V12 projection blending mosaic

Program outputs support projection edge blending which can adjust blending size, position, direction and gamma for each output port. One V12 can support blending for max. 8 sets 4K projections.



## Technical Parameters

### Input parameter

Type	Port	Quantity	Resolution
4DP&4HDMI	DP1.2 /HDMI2.0	4/4	3840X2160/60Hz/50Hz,7680X1080/60Hz/50Hz and customized
2DP/2HDMI&2SDI	DP1.2 /HDMI2.0&12G SDI	2/2&2	3840X2160/60Hz/50Hz, 7680X1080/60Hz/50Hz and customized/4K SDI
4DVI	DVI-D	4	VESA 1920X1080/60Hz and customized

### Output parameter

Board Type	Interface Type	Port	Quantity	Resolution Specification
Main Output Board	HDMI	HDMI2.0	4	VESA 3840x2160/60Hz、3840x2160/50Hz and customized Normal output board:maximum resolution of width is 4096, maximum resolution of height is 2176 Feathering output board: maximum resolution of width is 7680, maximum resolution of height is 3500
	HDMI+OPT	HDMI2.0+10G Fiber Optic	4+8	
Aux Output Board	AUX Output	HDMI 2.0	2	VESA 3840×2160/60Hz、3840×2160/50Hz and customized; maximum resolution of width is 4096,maximum resolution of height is 2176
	Echo Output	HDMI1.3	1	1920X 1080/60Hz
	Multi-preview	HDMI1.3	1	1920X 1080/60Hz

### Unit Specification

Power Supply	100-240V AC
Consumption	50/60Hz
Operating Temperature	0~45℃
Power supply frequency	520W
Net Weight	17Kg



### Shenzhen Magnimage Technology Co., Ltd.

Address:801, Bld. G2, TCL International E City,#1001  
 Zhongshan Park Road, Nanshan, Shenzhen, China, 518052  
 Tel:86-755-8664 7651 Fax:86-755-8664 7650  
 Website: www.magnimage.com