



V16 is 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, clients have a variety of 4K/2K input module customization options, support 4Kx2K/60Hz 4:4:4 input/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 show, commercial meeting, product launches and stage performances.

Product Feature

-  16 x 4K program output, 2 x 4K AUX output
-  1 x Multi-window preview, preview interface support customize, 1 x HDMI console monitor
-  Max. 24 input ports of 4K x 2K/60Hz 4:4:4
-  Mixed use for 4K/2K cards, Meet a variety of input requirements
-  Max. 32 layers for single device, Max. 16 layers for 4K layers
-  Support 8 background(pixel to pixel)
-  Support HDCP1.4&2.2
-  Input EDID management
-  Image crop,Layer zoom
-  Text overlay
-  Support edge blending
-  Support external synchronization, Multi-machine cascade
-  Dual redundant power supply

Switcher Introduction

Menu Display

Show V16 current operation status, able to check input information/electric status/ firmware version,etc.

Power Switch



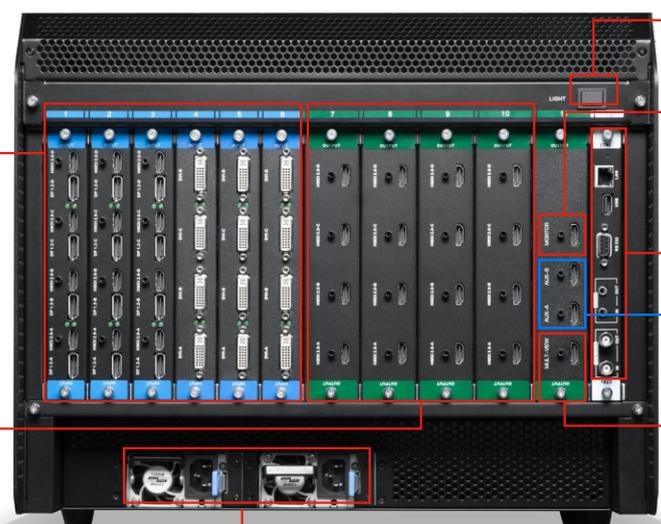
Menu Keys

Can enter/exit menu, Menupage, parameters adjustment,etc.

Input ports

Program output,
16 x 4K output

Dual power backup



Light Switch

Monitoring for
console

Control board

AUX output

Multi-window
preview output

Software Control

V16 video switcher can controlled by software, easy and quick operation.



LAN Cable



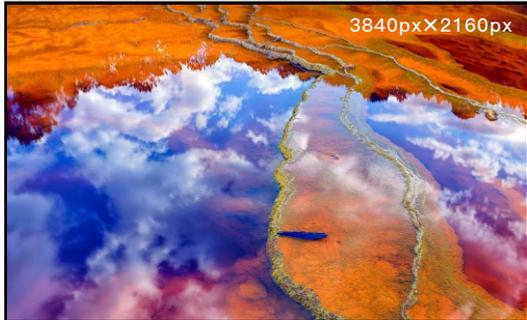
▣ Various Input and Output Ports

📦 Input Ports

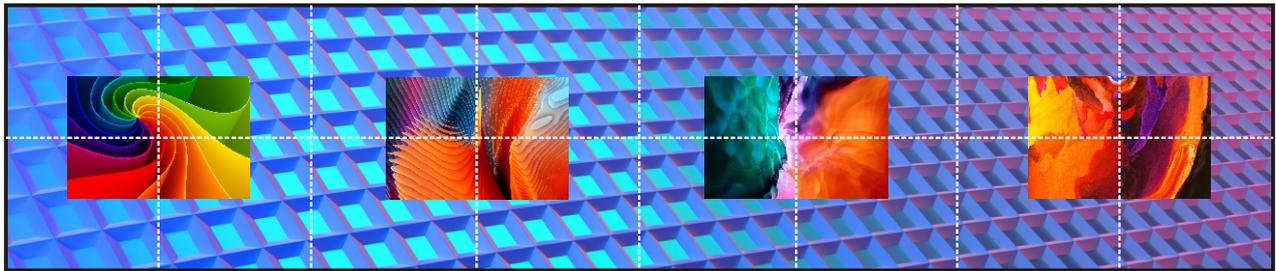
Max. 6 input card slots, user can select input card freely.

2K input card including 4 x HDMI, 4 x HDMI+ 2 x SDI mixed; 4K input card including 4 x DP/HDMI, 2 x DP/HDMI + 2 x SDI mixed.

Single port 4K*2K/60Hz



📦 Output Ports



16 program output: can customize output resolution and mosaic layout(8 x 2 or 2 groups of 4x2), Max. 32 layers for program output.



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



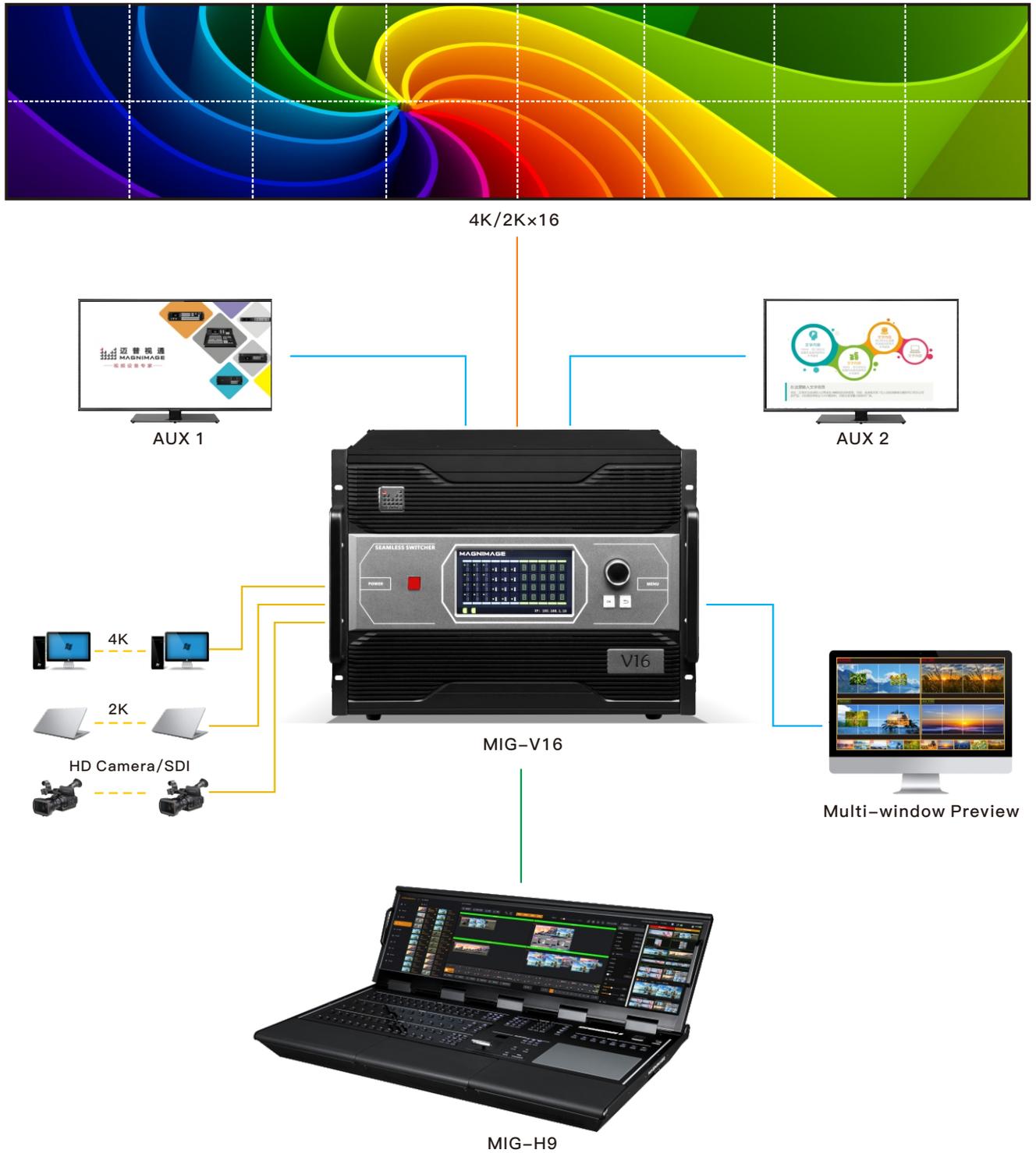
1 HDMI monitoring port for console



1 Multi-window preview output

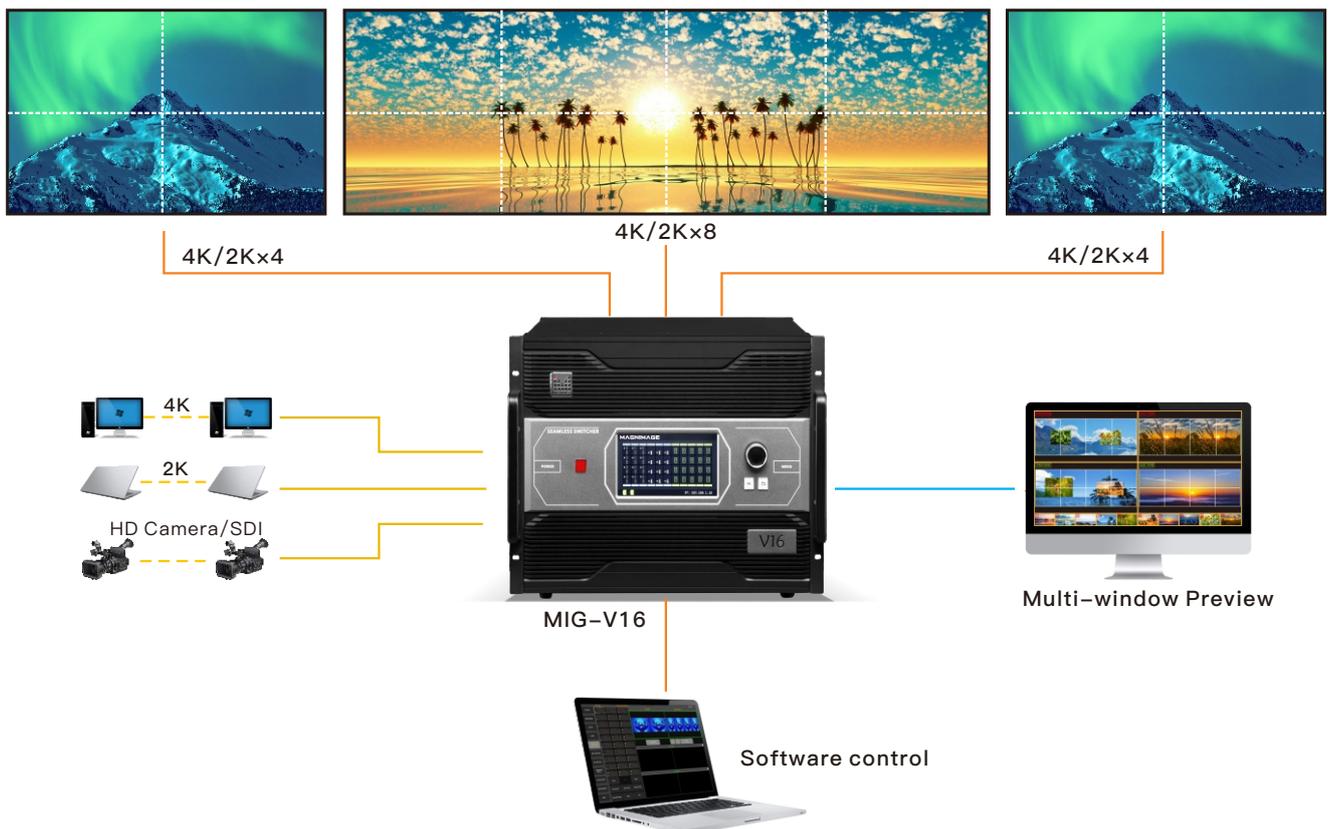
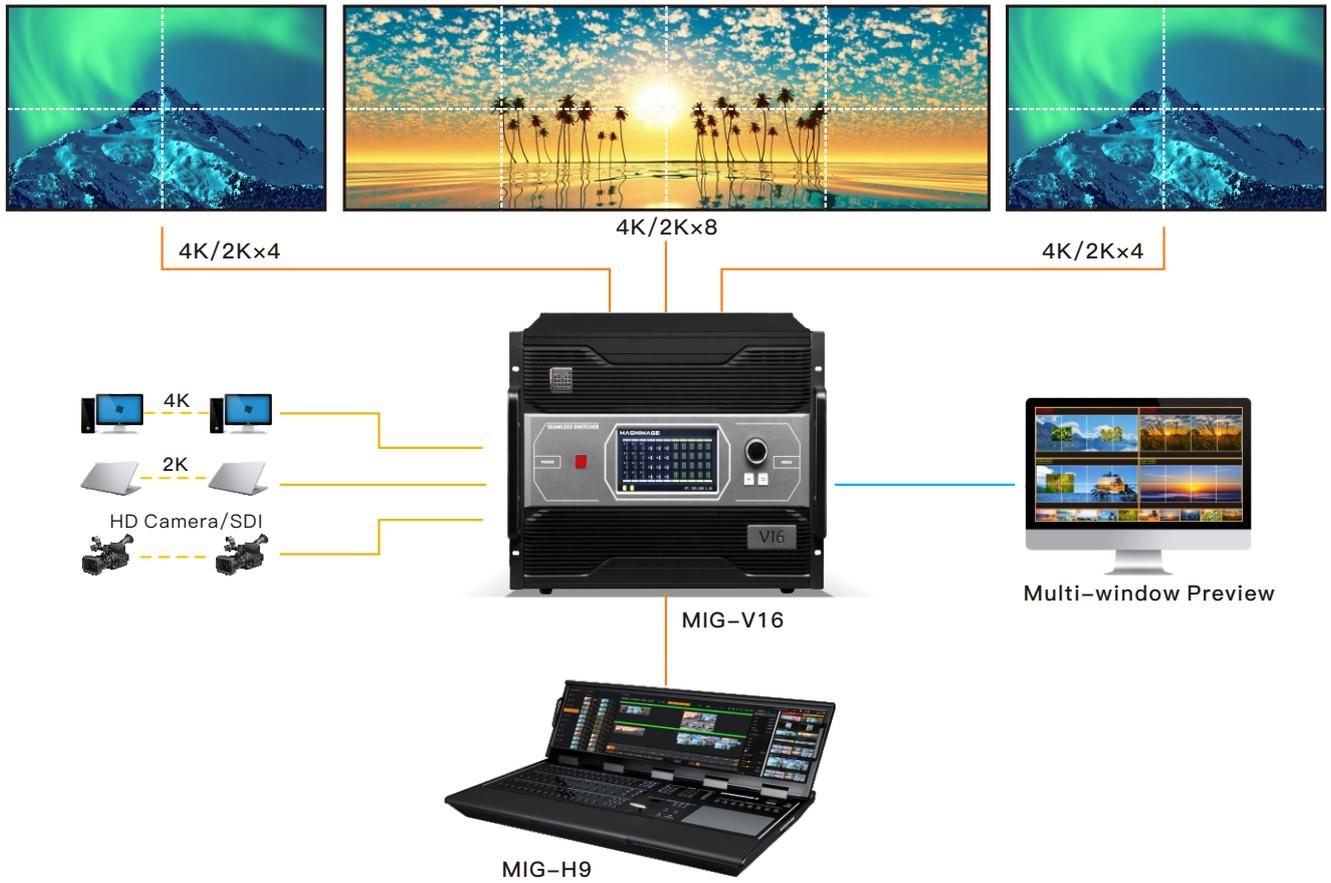
▮ Various Input and Output Ports

📦 System Connection Diagram



▮ Various Input and Output Ports

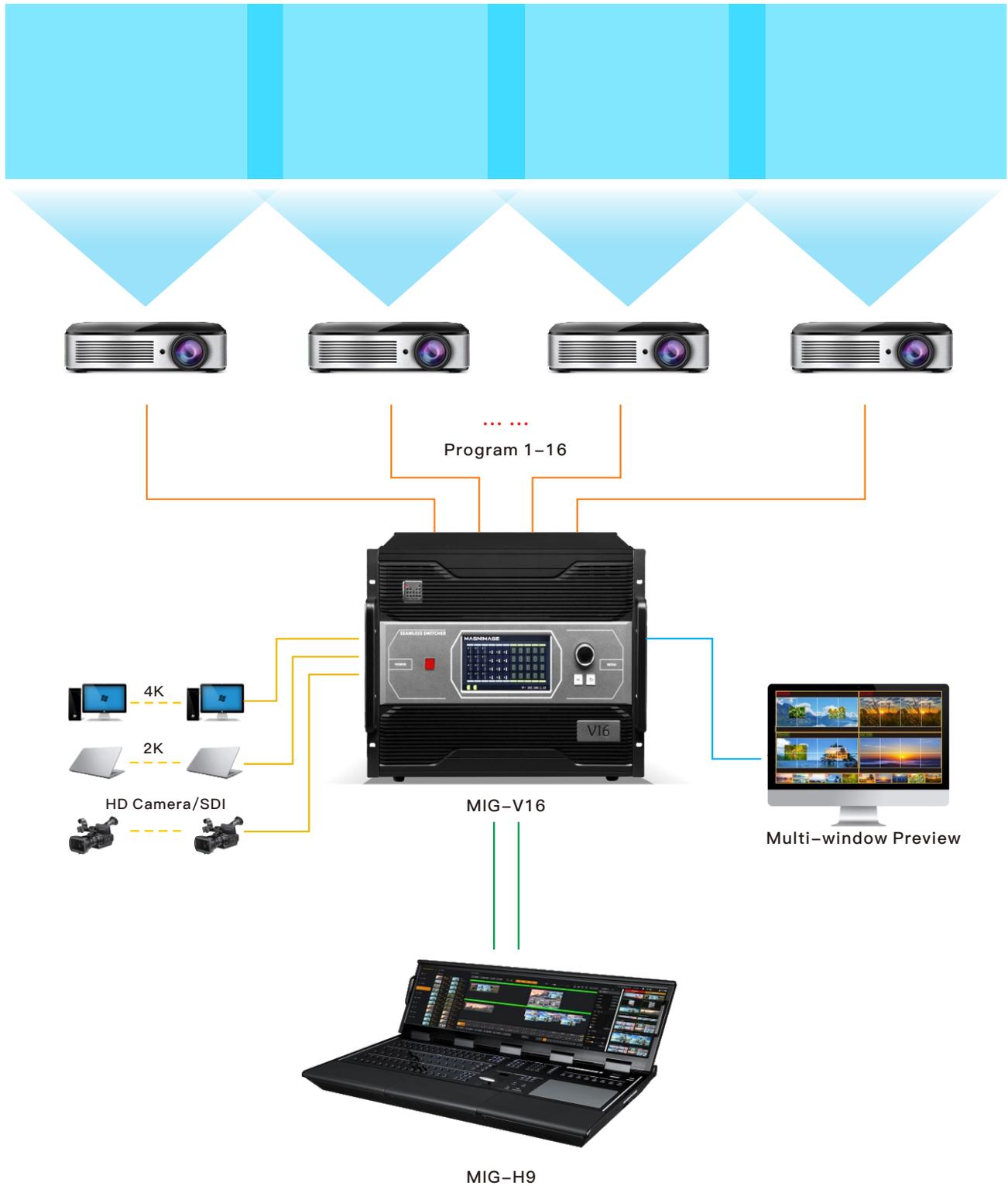
📦 System Connection Diagram



▮ MIG-H9 cooperate with MIG-V16

📦 V16 projection blending mosaic

Program output and AUX output are support projection blending which can adjust blending size and position and direction and gamma for each output port. Single V16 can support blending for max. 16 sets 4K projections.

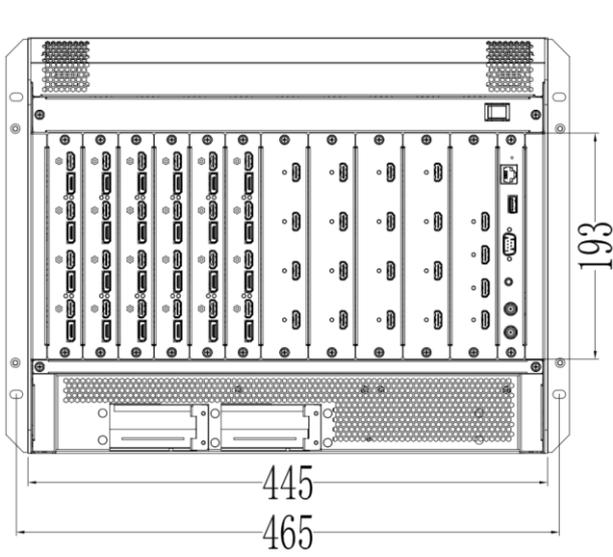


Technical Parameters

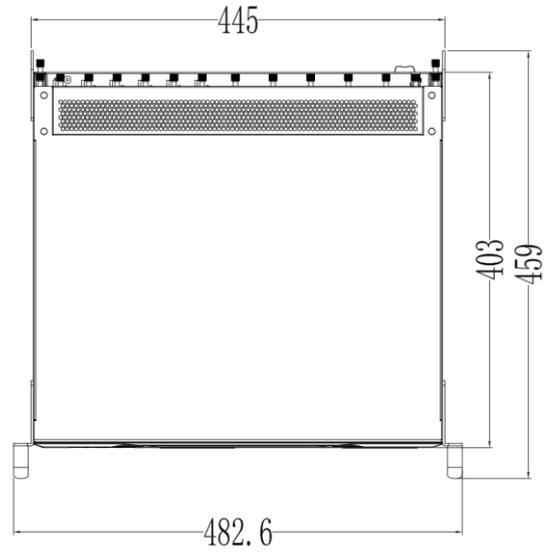
Input Information			
Input Card Model	Ports	Quantity	Resolution
4DP+4HDMI	DP1.2 /HDMI2.0	4+4	3840X2160/60Hz、7680×1080/60Hz、3840×2160/50Hz and customized
2DP+2HDMI+2SDI	DP1.2 /HDMI2.0/12G SDI	2+2+2	3840X2160/60Hz、7680×1080/60Hz、3840×2160/50Hz and customized/4K SDI
2HDMI+2SDI	HDMI1.3/3G SDI	2+2	EIA/CEA-86 Standard, HDMI-1.3 Standard/720p、1080i/p(3GSDI)
4HDMI	HDMI1.3	4	EIA/CEA-86 Standard, HDMI-1.3 Standard
4DVI	DVI-D	4	VESA 1920X1080/60Hz and customized

Output Information			
Output Type	Ports	Quantity	Resolution
Program Output	HDMI2.0	16	VESA 3840X2160/60Hz z、3840×2160/50Hzand customized
AUX Output	HDMI2.0	2	VESA 3840X2160/60Hz and customized
Monitoring Output	HDMI1.3	1	1920X 1080/60Hz
Multi-window Preview Output	HDMI1.3	1	1920X 1080/60Hz

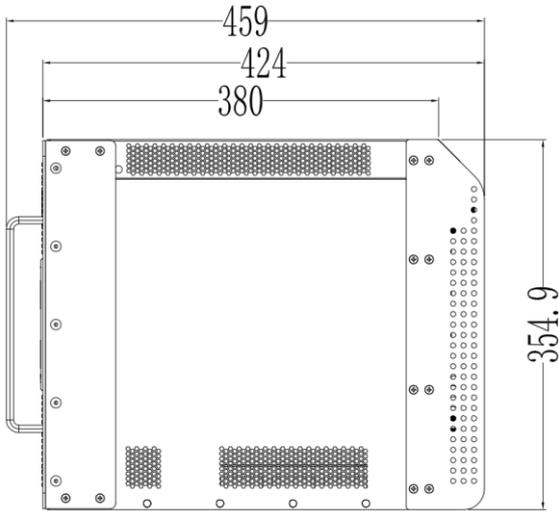
▣ Production Dimension



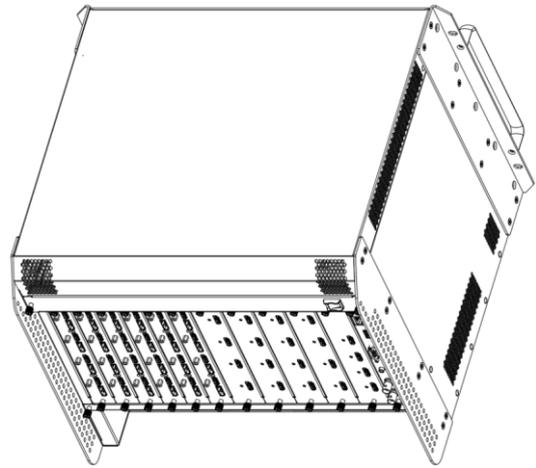
Front View



Bottom View



Left View



Ratio: 0.7

Left View



Shenzhen Magnimage Technology Co., Ltd.

Address: 8F, Bld. F5, TCL International E City, #1001
 Zhongshan Park Road, Nanshan, Shenzhen, China, 518052
 Tel: 0755-8664 7651 Fax: 0755-8664 7650
 Website: www.magnimage.com