



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

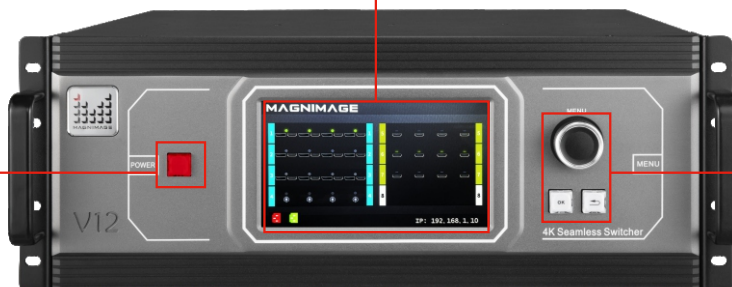
- ▮ 8*4K program output, 2*4K AUX output
- ▮ 1*Multi-window preview, preview interface support customize, 1*HDMI console monitor
- ▮ Support 10G OPT output
- ▮ Max. 16 input ports of 4K*2K@60Hz 4:4:4
- ▮ Mixed use for 4K*2K cards, Meet a variety of input requirements
- ▮ Max. 24 layers for single device, 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
- ▮ 4K@60Hz RGB 4:4:4

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



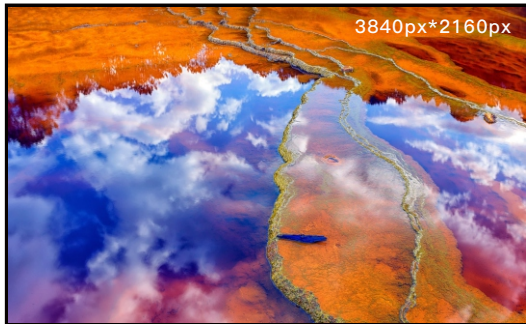
▮ Various Inputs and Outputs

📦 Inputs

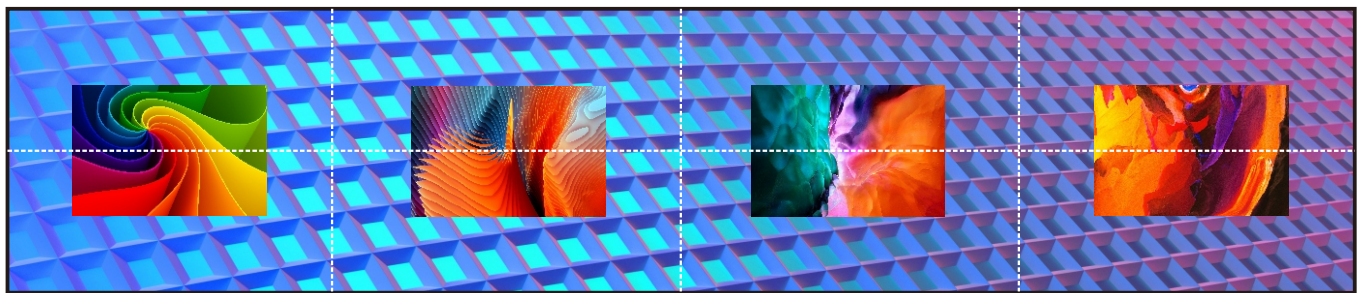
Max. 4 input card slots, user can select input card freely.

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

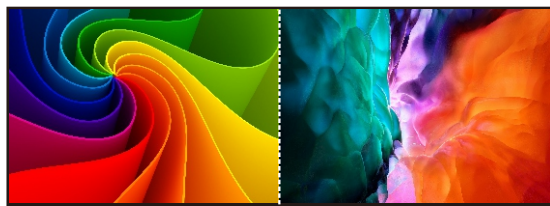
Single port 4K*2K/60Hz



📦 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.

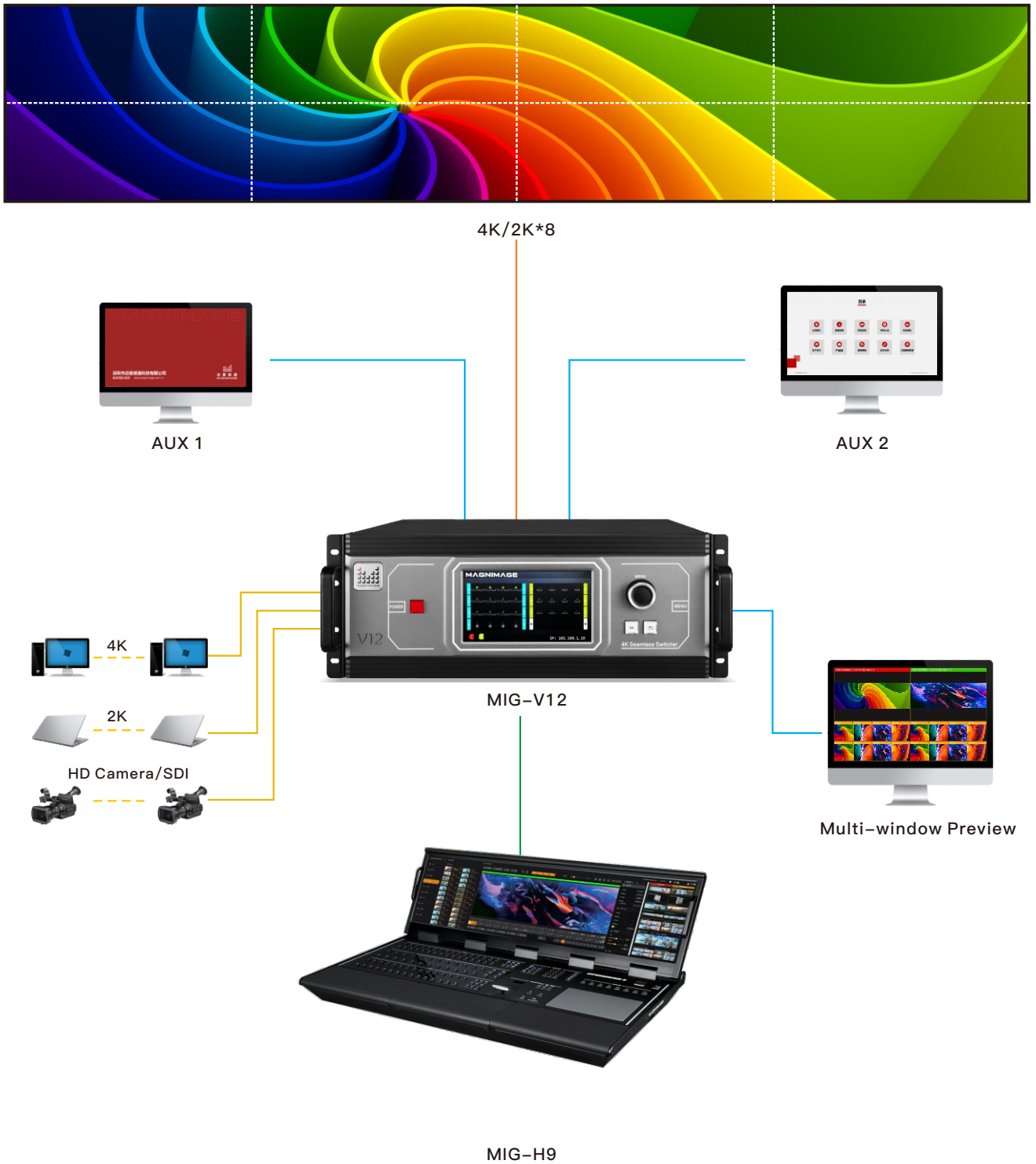


1 HDMI monitoring port for console

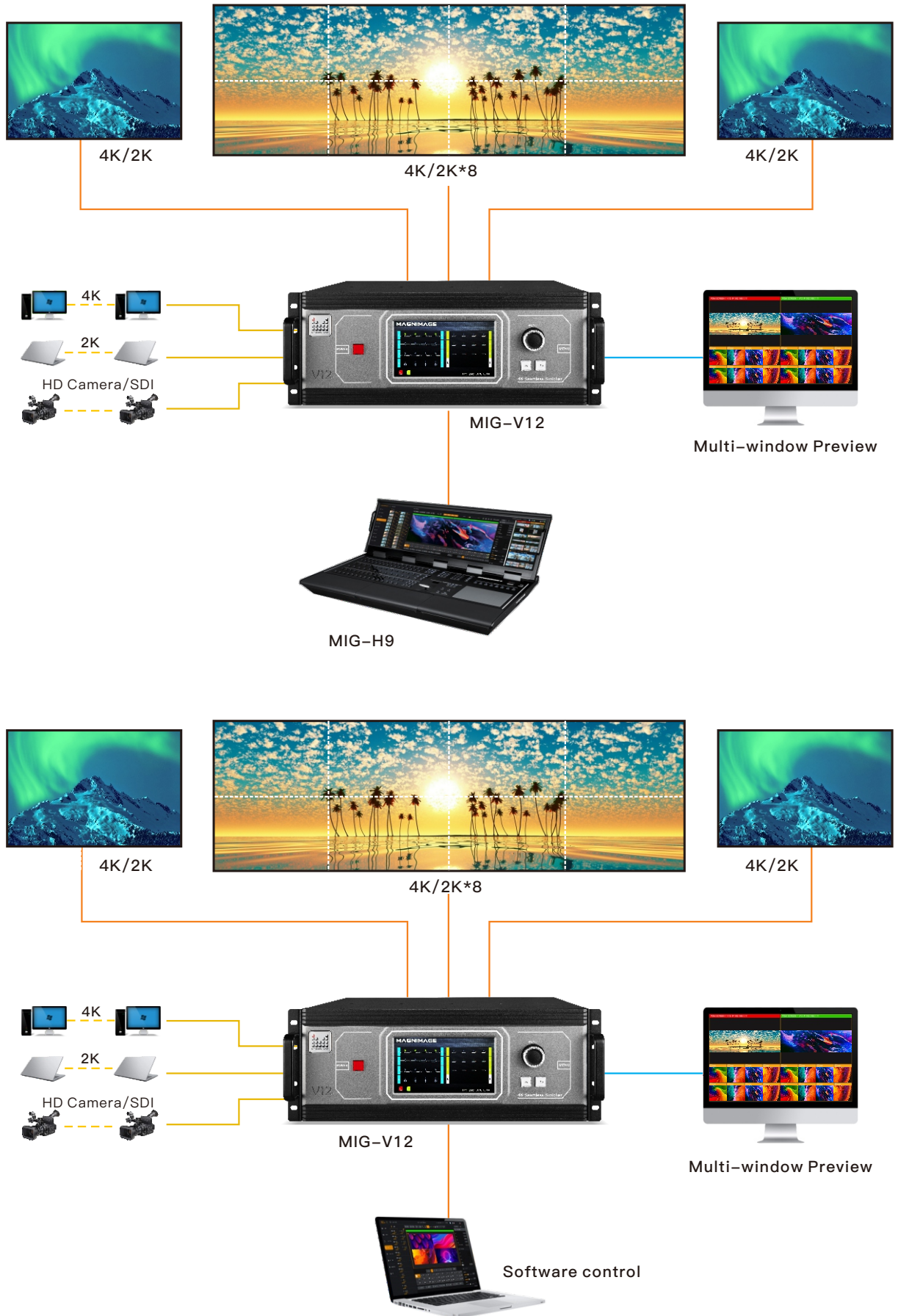


1 Multi-window preview output

System Connection Diagram

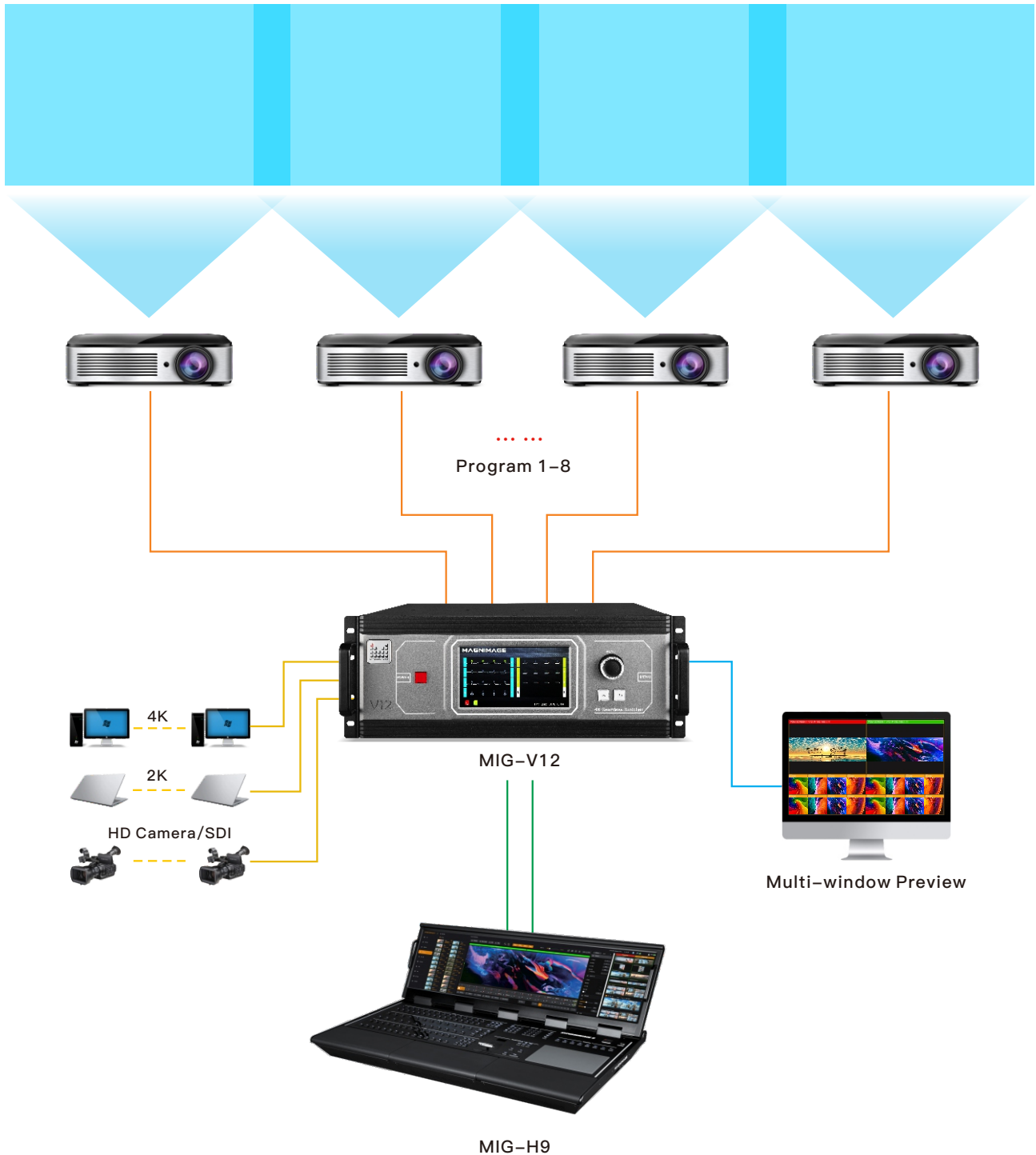


System Connection Diagram



V12 projection blending mosaic

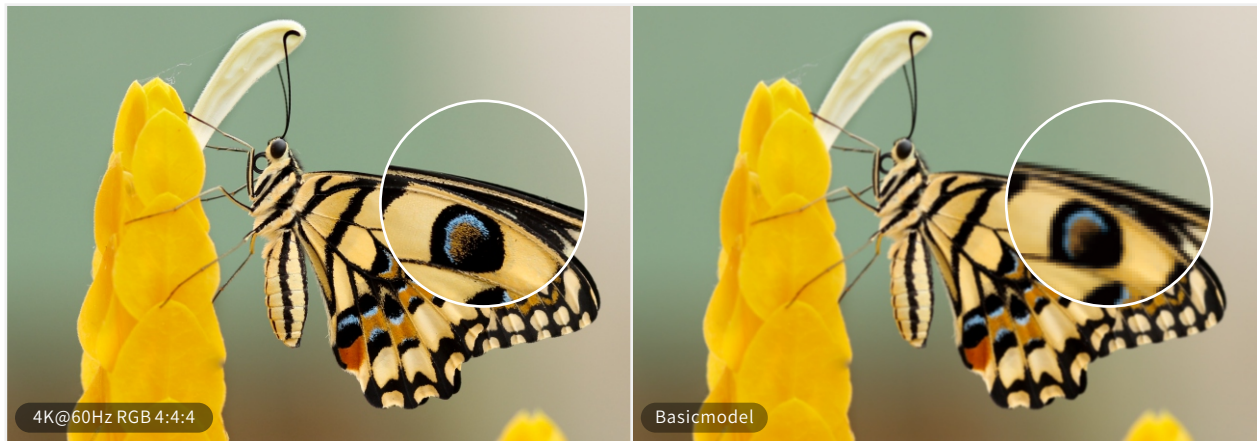
Program outputs support projection edge blending which can adjust blending size, position, direction and gamma for each output port. One V12 can support blending for max. 8 sets 4K projections.



▮ Main Features and Characteristics

● 4K@60Hz RGB 4:4:4

Input, output and internal processing are all RGB 4:4:4 sampling, which can accurately restore the signal source image details. The image display is clear and delicate. At the same time, there is no frame reducing or losing for the whole channel processing of the controller , so the video is played more smoothly, and the image details are fully displayed.



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
4SDI	12G SDI	4	4K SDI backward compatibility

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°C
Power supply frequency	520W
Net Weight	17Kg



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