MIG-V5
Seamless Switcher

MIG-V5 is the latest Magnimage high performance video seamless switcher, using a large storage high speed FPGA and hardware structure with high speed digital bus matrix, which is RBG 24bits/60Hz processing inside.

Built-in a high performance zoom core, MIG-V5 supports Multiple screens output seamless splicing, makes output signal clearer , delicate, colorful and ensures the output signal synchronous and no latency. It adopts mixed matrix input, various 4K, 2K input customized module options, supports 4K*2K/60Hz 4:4:4 input, 8K*1K /60Hz input and real-time preview to the input and output signal via multi-screen preview output.

Cooperates with consoles like MIG-H8, MIG-H6, it can realize fade-in/out switching among multiple layers and scenes, it was widely used in car exhibition, business conference and stage show, etc.

◩ Features

- 4 program output, support 16 layers, layer size and position changes arbitrarily
- 4 AUX output, supports mosaic and zooming
- 3 AUX loop output
- 1 multi-screen preview, input and output signal real-time preview, and supports customize layout
- 20 mixed matrix input, with multiple 2K, 4K input options
- Supports 4K*2K/60Hz 4:4:4 input, DP support 8K×1K/60Hz input

- Supports HD native background capture
- EDID management on input signal
- Image crop, layer zoom
- Text overlay
- Edge blending
- Supports outer synchronization and multiple devices cascade
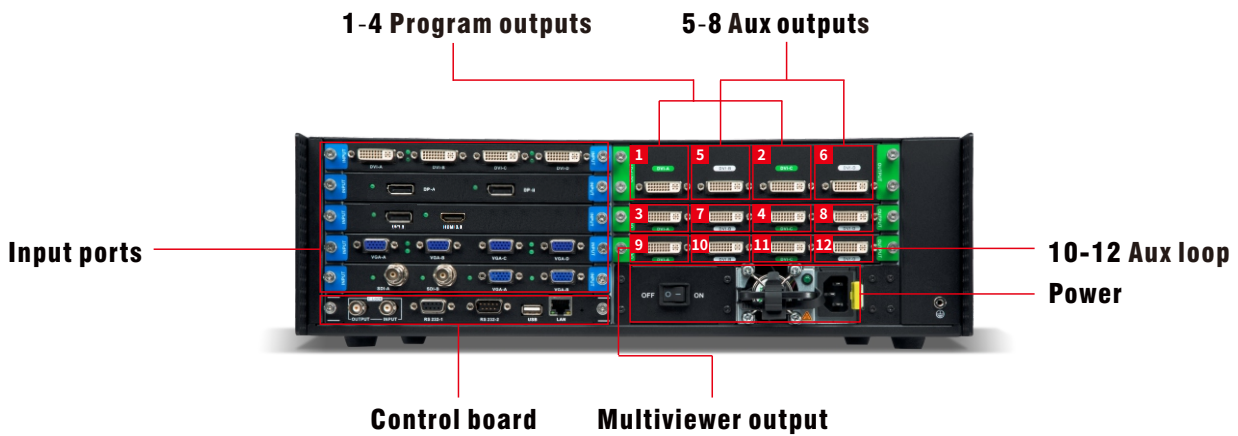- Support HDCP1.4&2.2

Switcher introduction

Menu display

Shows MIG-V5 present working status, including input information, electric status, firmware version, etc.

Function keys

Accomplish special function such as setting main unit's IP address in specific menu.

Menu keys

Enter/exit menu, paging, and parameter adjustment ,etc

1-4 Program outputs

5-8 Aux outputs

Input ports

10-12 Aux loop

Power

Control board

Multiviewer output

Software control

The V5 video switcher can be controlled by software, easy operation, quick react.

LAN cable

⬭ Various input and output ports

▭ Input ports

The 5 input slots allow you to build the machine based on your application. 2K options include DVI, HDMI, VGA, SDI and VGA/SDI mixed card. 4K options include DP card and DP/HDMI mixed card.

3840px×2160px
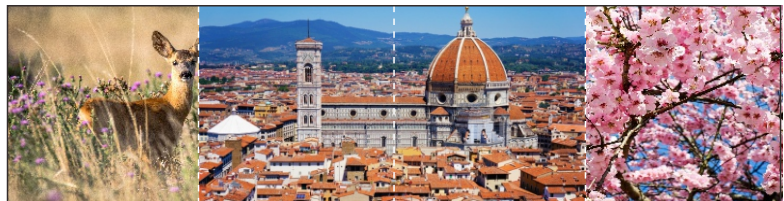
Each port 4K×2K/60Hz or 8K×1K/60Hz

▭ Output ports

Program outputs
The 4 Program outputs can be set as any mosaic layout, such as 4x1 or 2x2. In these 4 outputs, you can set maximum 16 layers at one time.

Aux Output
Like Program outputs, these 4 AUX outputs can be set as any mosaic layout, but each output only support 1 layer at one time.
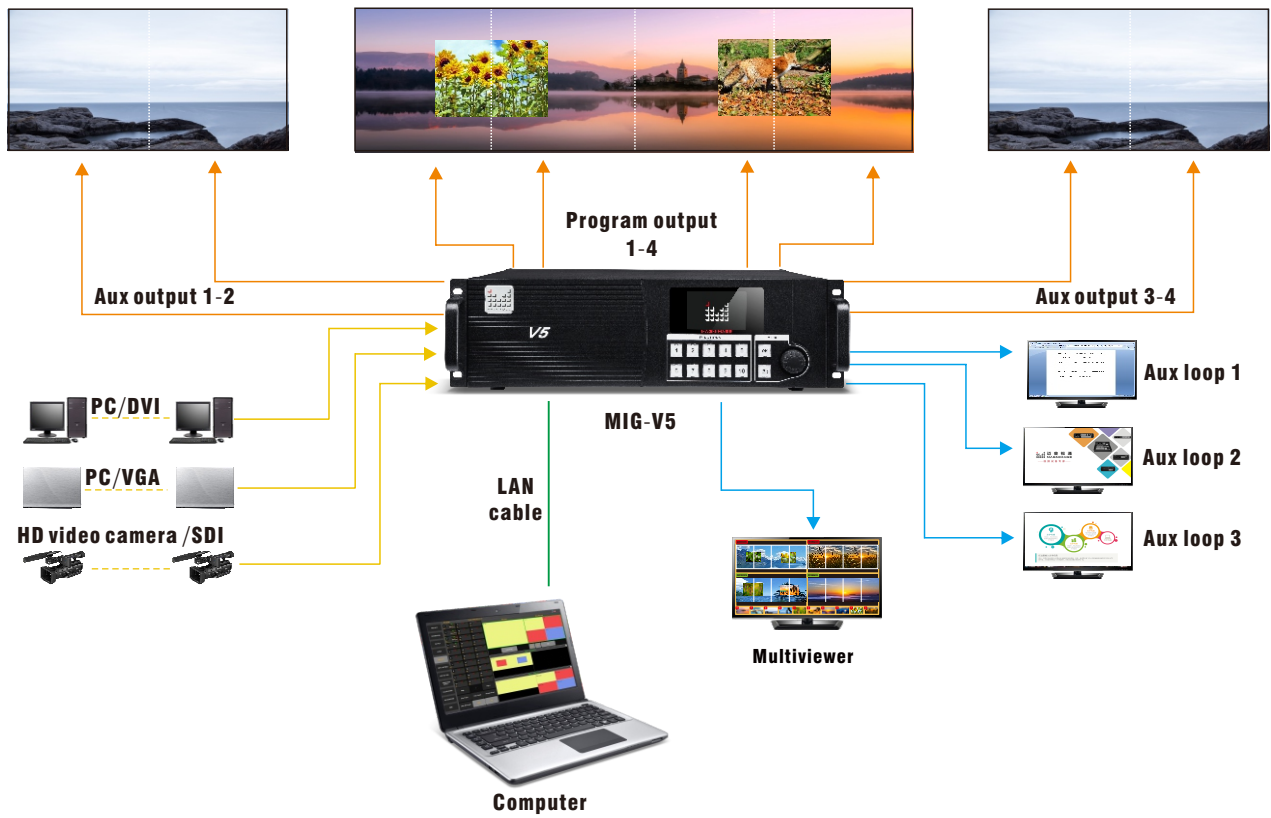

Aux loop output
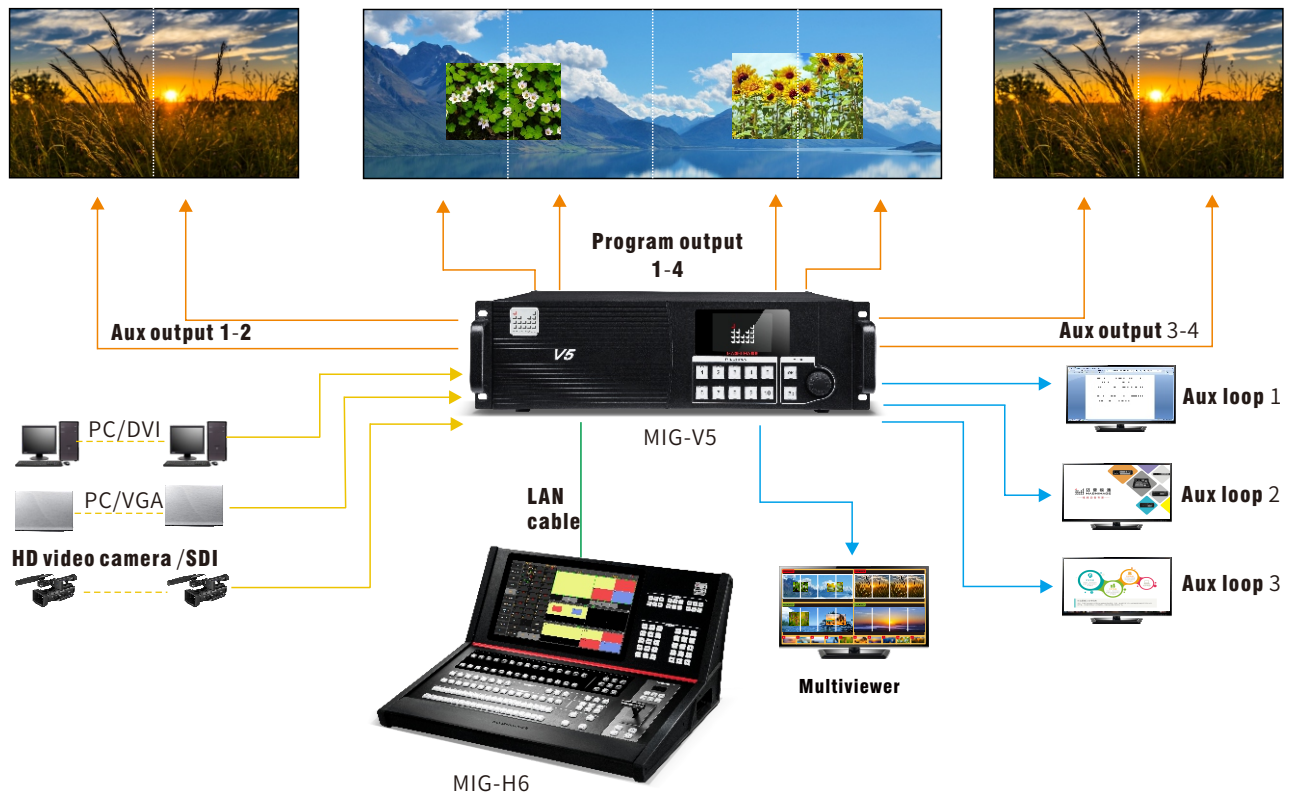You can choose and switch the input source to any of these 3 AUX loop outputs.
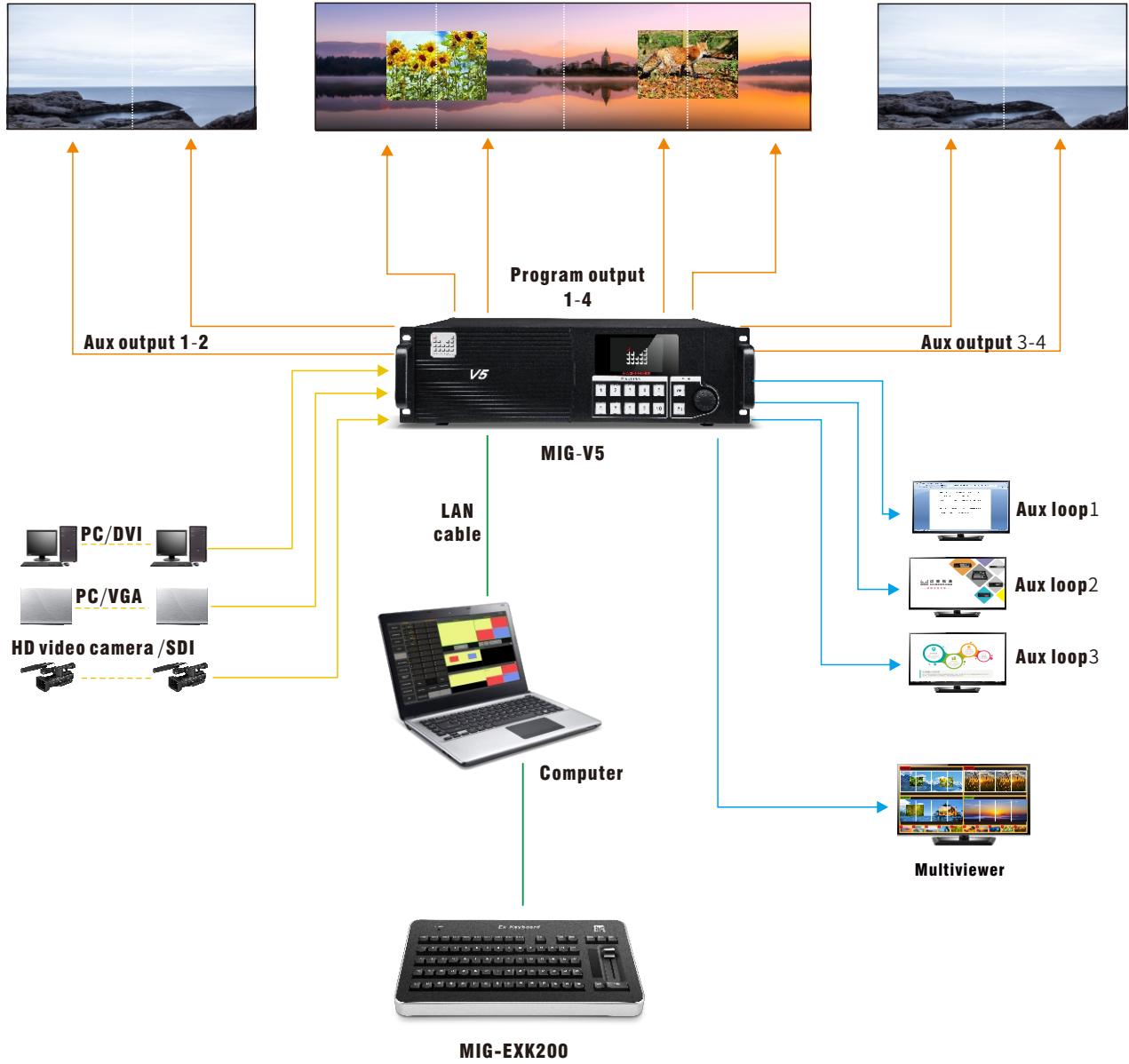

1 Multivirwer Output

✎ V5 cooperates with computer

Program output
1-4

Aux output 1-2

Aux output 3-4

PC/DVI

PC/VGA

HD video camera /SDI

MIG-V5

LAN
cable

Aux loop 1

Aux loop 2

Aux loop 3

Multiviewer

Computer

✎ V5 cooperates with H6

Program output
1-4

Aux output 1-2

Aux output 3-4

PC/DVI

PC/VGA

HD video camera /SDI

MIG-V5

LAN
cable

Aux loop 1

Aux loop 2

Aux loop 3

Multiviewer

MIG-H6

✐ V5 cooperates with MIG-EXK200

Program output
1-4

Aux output 1-2

Aux output 3-4

MIG-V5

LAN
cable

PC/DVI

PC/VGA

HD video camera /SDI

Computer

Aux loop1

Aux loop2

Aux loop3

Multiviewer
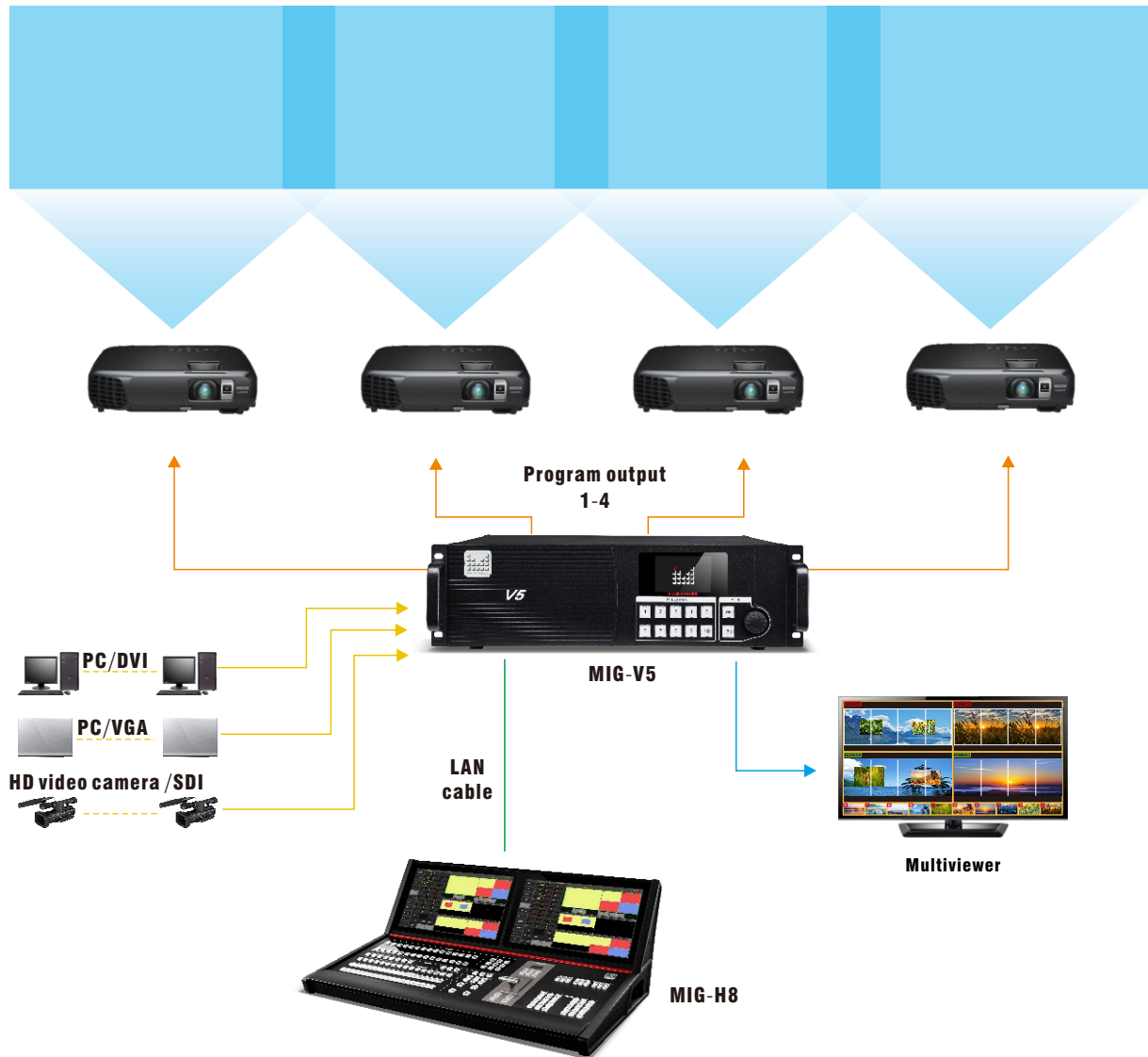
MIG-EXK200

⟋ V5 projection blending mosaic

Both Program outputs and AUX outputs support edge blending setting, including blending size, position, blending direction and gamma. One V5 supports up to 8 projectors for edge blending.

Program output
1-4

MIG-V5

PC/DVI

PC/VGA

HD video camera /SDI

LAN
cable

Multiviewer

MIG-H8

⟋ Technical parameters

Type	MIG-V5
Video outputs	Totally12 outputs: · 4 program outputs(DVI ports/ support 1920x1080/60Hz) · 4 Aux outputs(DVI ports/ support 1920x1080/60Hz) · 3 Aux loop outputs(DVI ports/ support 1920x1080/60Hz) · 1 Multiviewer output(DVI ports/ support 1920x1080/60Hz)

5 input cards, each card up to 4x 1920x1080/60Hz, 2x 3840x1080/60Hz or 1x 3860x2160/60Hz input.
Standard configure with 3 input cards of custom type.

Input card type	Port type	Port quantity	Resolution
VGA	RGBHV	4	1920×1080/60Hz
DVI	DVI-D	4	1920×1080/60Hz and EDID management
HDMI	HDMI1.3	4	1920×1080/60Hz and EDID management
2SDI+2VGA	3G SDI, RGBHV	4	1920×1080/60Hz
SDI	3G SDI	4	1080i/60Hz,1080P/60Hz
DP	DP1.1	2	3840×1080/60Hz and EDID management
2SDI+2DVI	3G SDI, DVI-D	2+2	1920×1080/60Hz
HDMI(4K)+DP(4K)	HDMI2.0,DP1.2	1+1	3840×2160/60Hz and EDID management DP support 8K×1K/60Hz input

Power voltage	100-240V
Power frequency	50/60Hz
Operation temperature	0~45
Chasis N.M.(KG)	9.6
Overall power consumption(W)	180
Dimension(mm)	482.6×371×133