



As a powerful video splicing machine, MIG-CL9400 is the CPU of the big screen mosaic system. It supports multiple input signals, splice, zoom, open windows, overlay, roam at different kinds of screens. The hardware build-ups are based on advanced FPGA array and high speed digital bus-matrix. As for all kinds of input signal, it is able to recover the original one by its RGB 24bits/60 Hz internal processor. At the same time, its prominent image scaling engine ensures clear seamless splicing without delay.

Deeply modular design, support VGA DVI SDI IP HDMI(2K/4K) DP(4K) input signal, input EDID management. DVI and SDI output resolution can be customized, for any LED screen pixel-to-pixel display. The whole series support USB upgrade and network/RS232 control, easy for after-sale service and technical support. Multiple input/output configuration for different projects, 3U/4U/8U/14U/19U chassis is available.

MIG-CL9400 series products are widely used in government, transport, medical, education, hydroelectric, broadcasting & TV and shopping mall, like multi-media conference room, multi-functional hall, monitor center, studio, exhibition center, opera and so on.

▮ Features

- ▮ Pure FPGA hardware architecture
- ▮ 4 independent layers per output
- ▮ Supports mosaic for over 8 times scaled
- ▮ Supports different pixel pitch led screen mosaic
- ▮ Internal 24 bit RGB processing
- ▮ 60Hz real-time processing
- ▮ Input EDID management
- ▮ 4K×2K/8K×1K@60Hz input
- ▮ Real-time seamless switching
- ▮ Caption & label
- ▮ Freely adjustment for the windows' size and position
- ▮ Layer full screen roaming
- ▮ Customized output resolution
- ▮ Pixel to pixel display HD backgrounds
- ▮ Dual redundant power supply
- ▮ System running real-time monitoring
- ▮ Projector edge blending mosaic
- ▮ Fade effect among layers
- ▮ Layer grouping
- ▮ 8 windows of input monitoring

▮ MIG-CL9403 introduction

LCD Screen

Display the machine's status information, including input/output boards, hardware version, temperature, network setting, etc.

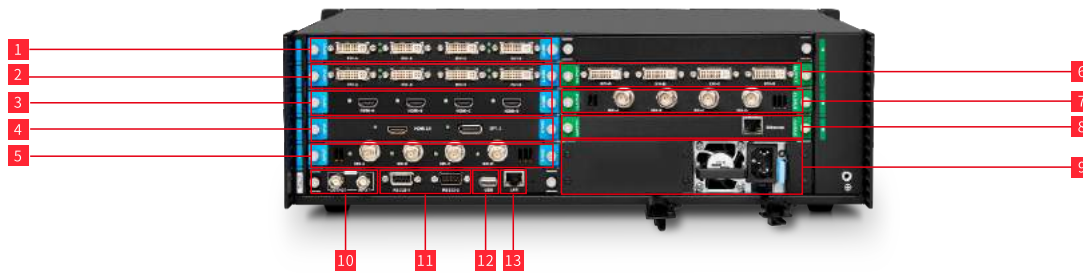


Menu Operation

“OK” “↵” and the knob are used to read the menu on the LCD screen.

Functions Button

Button 1-10 are for machine's setting like IP, subnet mask, mode shifting.



- | | | | |
|---------------------------------------------------------------------|----------------------------------|------------------------------|------------------------------|
| 1 DVI Input | 2 DVI Input | 3 HDMI Input | 4 HDMI2.0、DP1.2 Input |
| 5 SDI Input | 6 DVI Output | 7 SDI Output | 8 IP Monitoring |
| 9 Power supply, extendedable for dual power redundant backup | 10 Framelock Input/Output | 11 RS232 Control Port | 12 USB Upgrade Port |
| 13 Network Control Port | | | |

▮ Operating Modes

Operating Modes

3 control modes including computer software control, Android software control, and buttons control.

Computer software control is achieved by connecting the machine with a computer via network cable or RS232 cable. Any operation will be done through the software.

Buttons control: To control and select all the template manually

Operating interface



Computer Host interface



Android interface

▮ MIG-CL9404 introduction

LCD Screen

Display the machine's status information, including input/output boards, hardware version, temperature, network setting, etc.

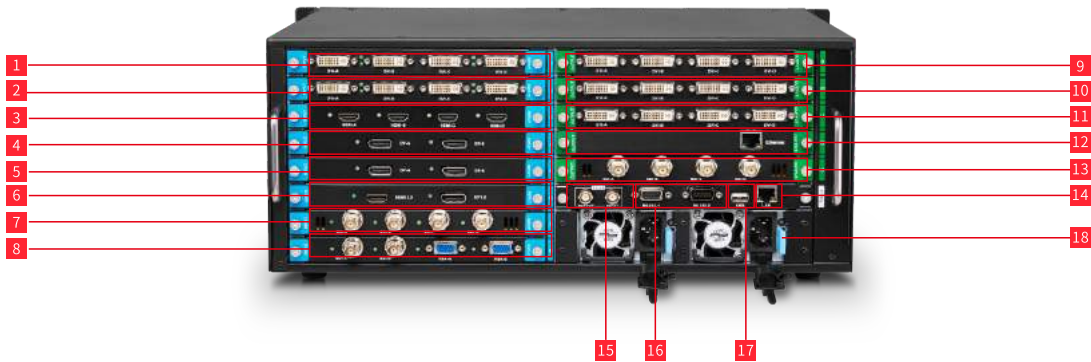


Menu Operation

“OK” “↵” and the knob are used to read the menu on the LCD screen.

Functions Button

Button 1-10 are for machine's setting like IP,subnet mask, mode shifting.



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|----------------------------|---------------------------------------|----------------------------------|------------------------------|
| 1 DVI Input | 2 DVI Input | 3 HDMI Input | 4 DP Input |
| 5 DP Input | 6 HDMI2.0、DP1.2 Input | 7 SDI Input | 8 SDI、VGA Input |
| 9 DVI Output | 10 DVI Output | 11 DVI Output | 12 IP Monitoring |
| 13 SDI Output | 14 Network Control Port | 15 Framelock Input/Output | 16 RS232 Control Port |
| 17 USB Upgrade Port | 18 Dual Power Redundant Backup | | |

▮ MIG-CL9408 introduction

LCD Screen

Display the machine's status information, including input/output boards, hardware version, temperature, network setting, etc.

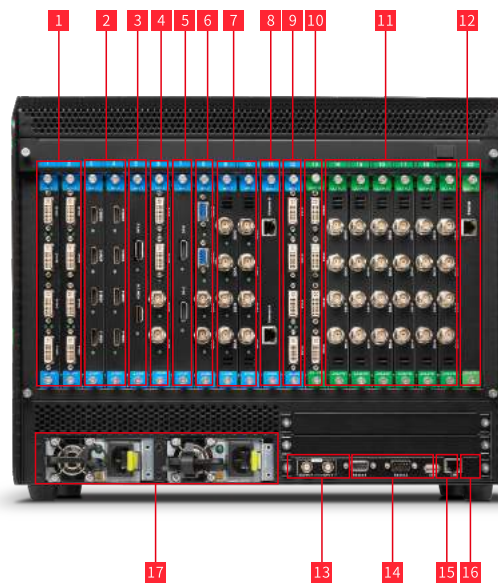


Menu Operation

“OK” “↵” and the knob are used to read the menu on the LCD screen.

Functions Button

Button 1-10 are for machine's setting like IP, subnet mask, mode shifting.



- | | | | |
|--------------------------------|-----------------------|-----------------------|-------------------------|
| 1 DVI Input | 2 HDMI Input | 3 HDMI2.0、DP1.2 Input | 4 SDI、DVI Input |
| 5 DP Input | 6 SDI、VGA Input | 7 SDI Input | 8 Network Input |
| 9 DVI Input | 10 DVI Output | 11 SDI Output | 12 IP Monitoring |
| 13 Framelock Input/Output | 14 RS232 Control Port | 15 USB Upgrade Port | 16 Network Control Port |
| 17 Dual Power Redundant Backup | | | |

▮ MIG-CL9414 introduction

LCD Screen

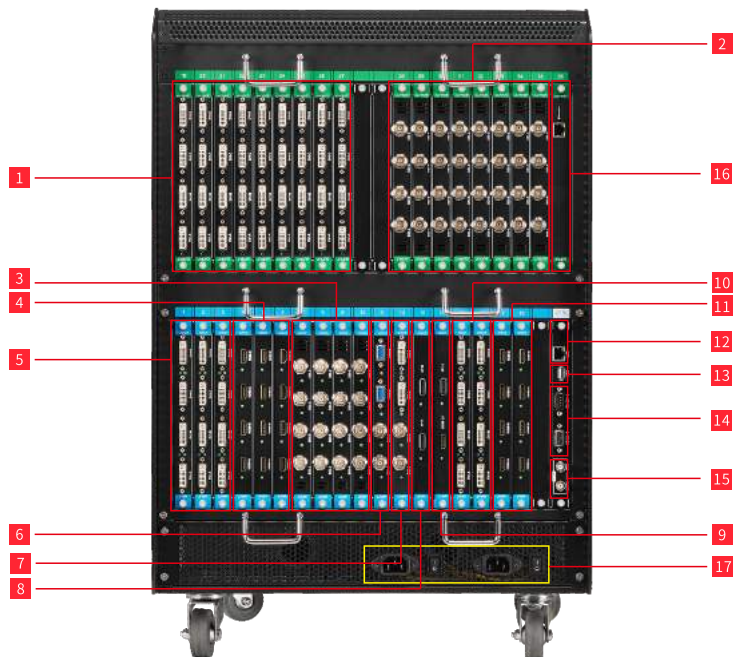
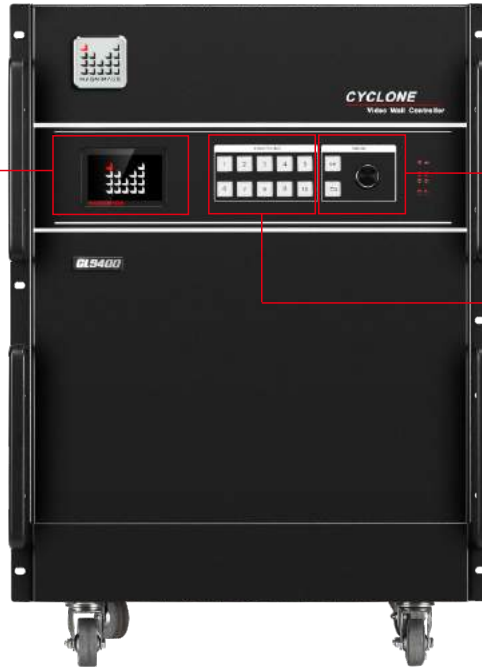
Display the machine's status information, including input/output boards, hardware version, temperature, network setting, etc.

Menu Operation

“OK” “↵” and the knob are used to read the menu on the LCD screen.

Functions Button

Button 1-10 are for machine's setting like IP, subnet mask, mode shifting.



- | | | | |
|---------------------------------------|------------------------------|----------------------------------|--------------------------------|
| 1 DVI Output | 2 SDI Output | 3 SDI Input | 4 HDMI Input |
| 5 DVI Input | 6 SDI, VGA Input | 7 SDI, DVI Input | 8 DP Input |
| 9 HDMI2.0, DP1.2 Input | 10 DVI Input | 11 HDMI Input | 12 Network Control Port |
| 13 USB Upgrade Port | 14 RS232 Control Port | 15 Framelock Input/Output | 16 IP Monitoring |
| 17 Dual Power Redundant Backup | | | |

▮ MIG-CL9419 introduction

LCD Screen

Display the machine's status information, including input/output boards, hardware version, temperature, network setting, etc.



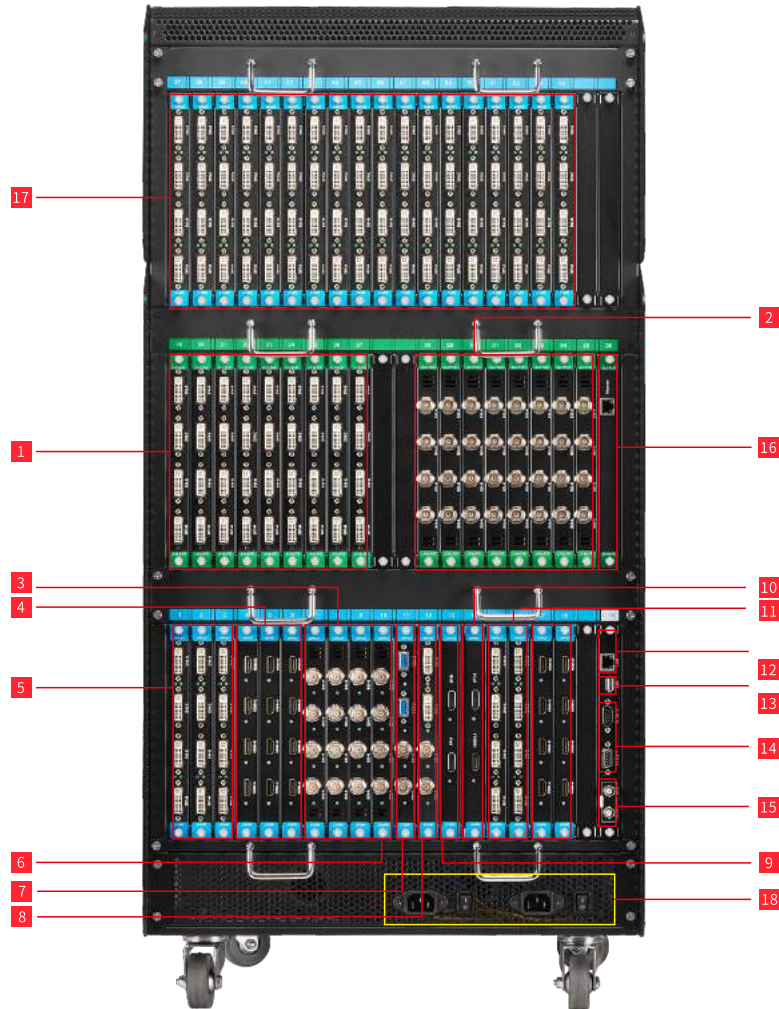
Menu Operation

"OK" "↵" and the knob are used to read the menu on the LCD screen.

Functions Button

Button 1-10 are for machine's setting like IP, subnet mask, mode shifting.

▮ MIG-CL9419 introduction

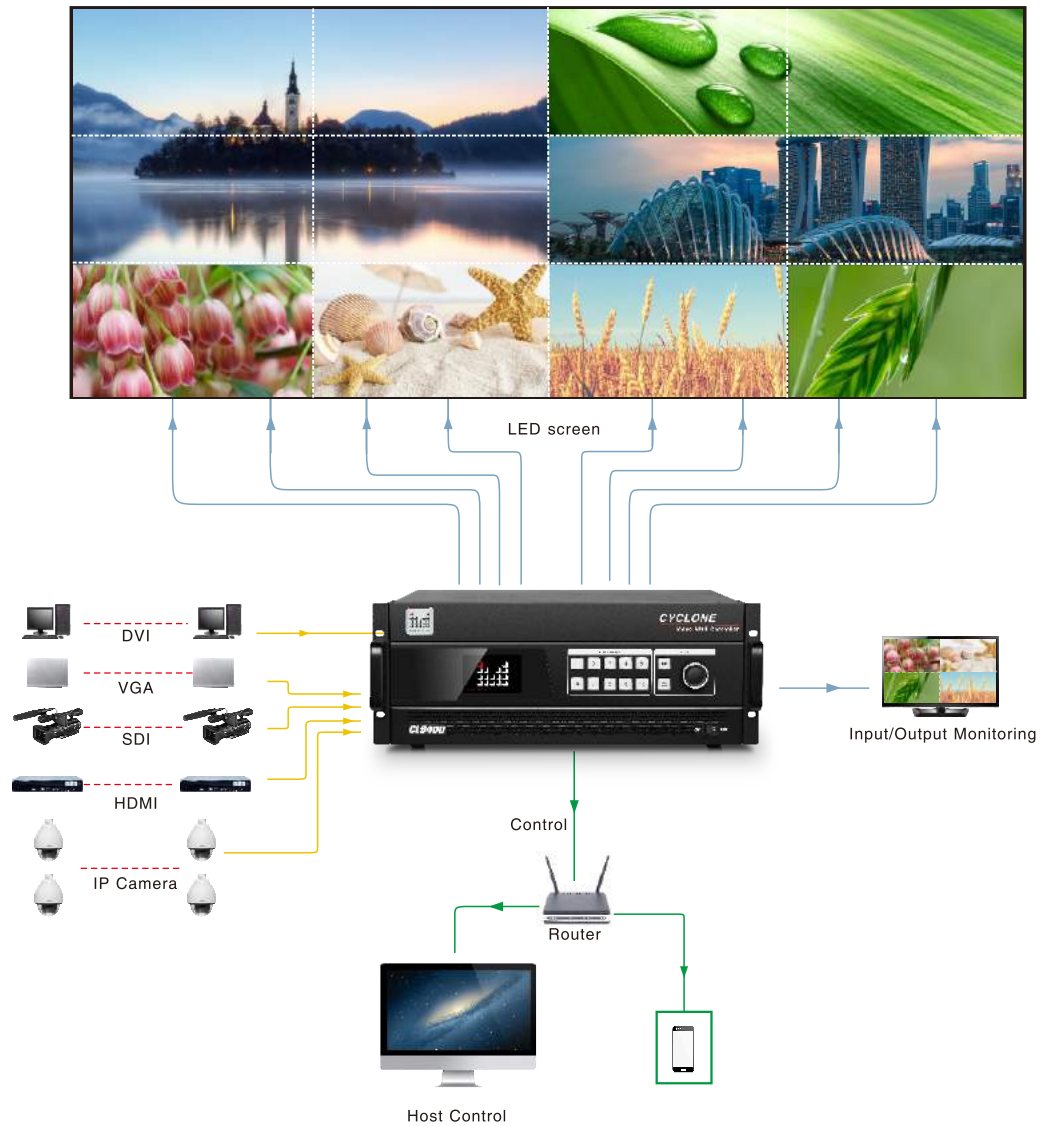


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|-------------------------------|---------------------------------------|----------------------------------|--------------------------------|
| 1 DVI Output | 2 SDI Output | 3 SDI Input | 4 HDMI Input |
| 5 DVI Input | 6 SDI, VGA Input | 7 SDI, DVI Input | 8 DP Input |
| 9 HDMI2.0, DP1.2 Input | 10 DVI Input | 11 HDMI Input | 12 Network Control Port |
| 13 USB Upgrade Port | 14 RS232 Control Port | 15 Framelock Input/Output | 16 IP Monitoring |
| 17 DVI Input | 18 Dual Power Redundant Backup | | |

▮ Main Features & Application

📺 High resolution LED wall mosaic

High resolution LED Wall mosaic will be realized with corresponding sending cards and the machine's output customization. One 3U chassis machine supports 12 panels mosaic at most; 4U chassis supports 20 at most; 8U chassis supports 32 at most, 14U/19U chassis supports 72 at most. No frame drop or image tear. Supports 4K×2K/8K×1K@60Hz DP input and high resolution pixel-to-pixel display.



▣ Main Features & Application

▣ 4 independent layers output by 1 output

One DVI output can display 4 independent layers and one high definition background. The position, size and order of each layer can be set freely. Input signal of any layer can also be set freely with the machine's inner video matrix.



▣ Caption & label

User can set the caption's size, color, moving speed, background color without PC or USB memory disk, also insert a picture to serve as a label.

Label function(letter or image) allows you mark the layers by words to help memorizing and selecting the right layer exactly and rapidly.



▮ Main Features & Application

📺 IP monitoring

By connecting the network control port, the IP monitor and the host computer into one local area network, you monitoring all the input and output status on the software.



📺 Multiviewer Output

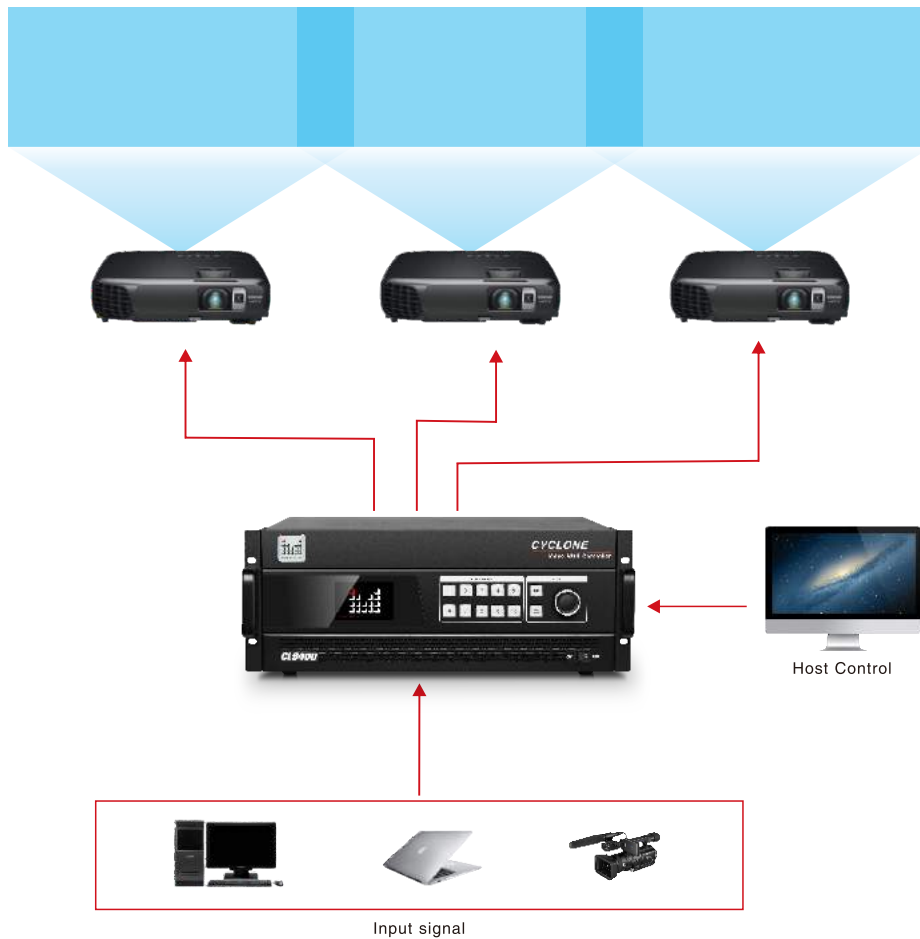
One multiviewer output allows monitoring up to 8 input sources. The window layout can be customized.



▮ Main Features & Application

📺 Projector edge blending mosaic

One 3U chassis machine supports 12 times mosaic at most, one 4U chassis controller supports 20 projectors mosaic at most; one 8U chassis controller supports 32 projectors mosaic at most, one 14U/19U chassis supports 72 at most.. Size, position, transparency and other parameters of the blending parts can be changed via edge blending function.



Technical Specification

Chassis parameter					
Chassis	3U	4U	8U	14U	19U
Input ports	20	32	48	72	144
Output ports	12	20	32	72	72
Power voltage	110-240V				
Power frequency	50/60Hz				
Operation temperature	0~45°C				
ChassisN.W.(KG)	9.6	11.0	18.85	58.0	80
Overall power consumption(W)	300	500	750	1900	2500
Dimension(MM)	482.6×371×133	482.6×371×177	482.6×355×430	482.6×567.5×621	482.6×567.5×915.2

Input card			
Input card type	Port type	Port quantity	Resolution
VGA	RGBHV	4	1920×1080/60Hz
DVI	DVI-D	4	1920×1080/60Hz and EDID management
SDI	3G SDI	4	1080i/60Hz,1080P/60Hz
HDMI	HDMI1.3	4	1920×1080/60Hz
DP	DP1.1	2	3840×1080/60Hz and EDID management
IP	H.264	2	1920×1080/60Hz
2SDI+2VGA	3G SDI, RGBHV	2+2	1920×1080/60Hz
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

Output card			
Output card type	Port type	Port quantity	Resolution (single output)
DVI	DVI-D (4 layers each port)	4	1024×968/60Hz 1366×768/60Hz 1440×900/60Hz 1440×1440/60Hz 1280×1024/60Hz 1680×1050/60Hz 1600×1200/60Hz 1920×1080/60Hz 2560×816/60Hz Customized output resolution, horizontal max 2560, vertical max 2560.
SDI	SDI(4 layers each port)	4	1080P/60Hz,1080i/60Hz,720P/60Hz
DVI	DVI(Preview output)	2	1920×1080/60Hz (Horizontally 8 windows)
IP	H.264	1	IP Monitoring

▮ MIG-CL9403 Chassis Specification



Chassis Type	Input card Quantity	Output card Quantity	Control Board Quantity
MIG-CL9403	5	3	1

▮ MIG-CL9404 Chassis Specification



Chassis Type	Input card Quantity	Output card Quantity	Control Board Quantity
MIG-CL9404	8	5	1

▮ MIG-CL9408 Chassis Specification



Chassis Type	Input card Quantity	Output card Quantity	Control Board Quantity
MIG-CL9408	12	8	1

▮ MIG-CL9414 Chassis Specification



Chassis Type	Input card Quantity	Output card Quantity	Control Board Quantity
MIG-CL9414	18	18	1

▮ MIG-CL9419 Chassis Specification



Chassis Type	Input card Quantity	Output card Quantity	Control Board Quantity
MIG-CL9419	36	18	1



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