MAGNIMAGE

MIG-CL9400 series

Video Wall Controller

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 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

MIG-CL9403 introduction

LCD Screen

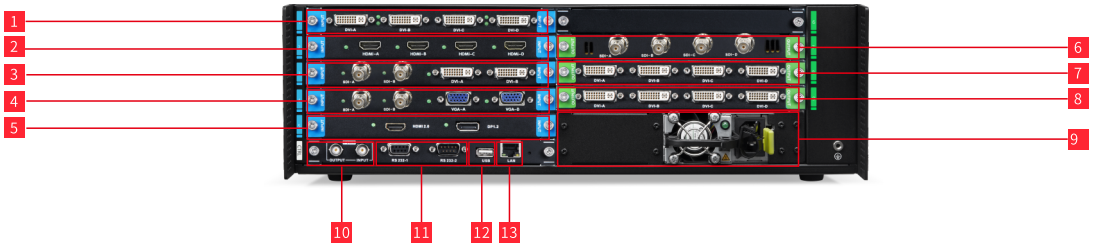
Display the machine's status information, including input/output boards, hardware version, temperature, network setting, etc.

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 HDMI Input	3 SDI、DVI Input	4 SDI、VGA Input
5 HDMI2.0、DP1.2 Input	6 SDI Output	7 DVI Output	8 DVI Output
9 Power supply, extendable 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 , iPad control , and buttons control.

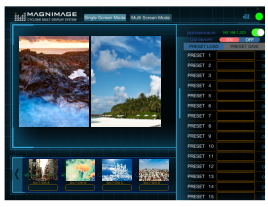
Computer software control is achieved by connecting the machine with a computer via network cable or RS232 cable. Any operation will be done through the software.

iPad control is achieved by the software designed for iPad.

Buttons control: To control and select all the template manually

Operating interface

Computer Host interface



iPad interface

MIG-CL9404 introduction

LCD Screen

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

Menu Operation

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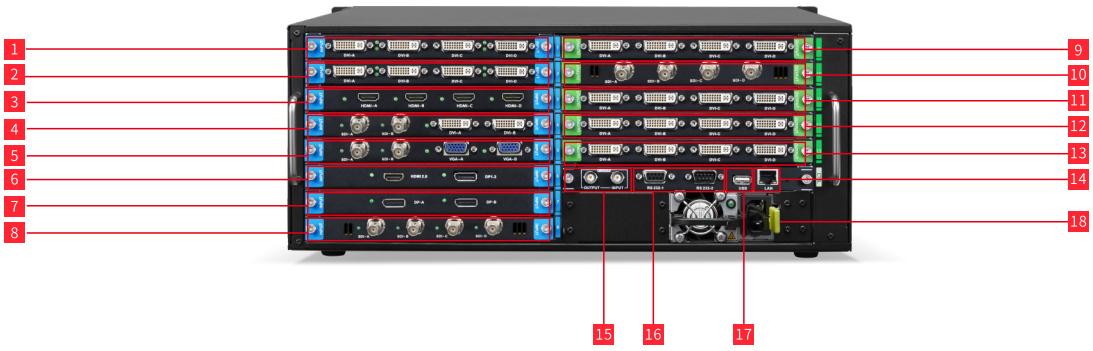
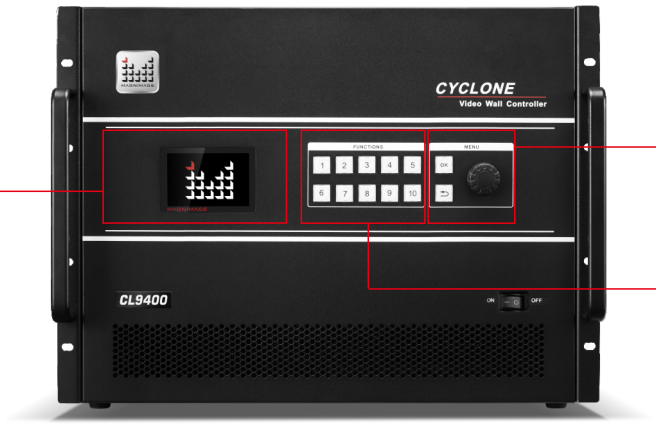


1 DVI Input	2 DVI Input	3 HDMI Input	4 SDI、DVI Input
5 SDI、VGA Input	6 HDMI2.0、DP1.2 Input	7 DP Input	8 SDI Input
9 DVI Output	10 SDI Output	11 DVI Output	12 DVI Output
13 DVI Output	14 Network Control Port	15 Framelock Input/Output	16 RS232 Control Port
17 USB Upgrade Port	18 Power supply, extendable for 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.

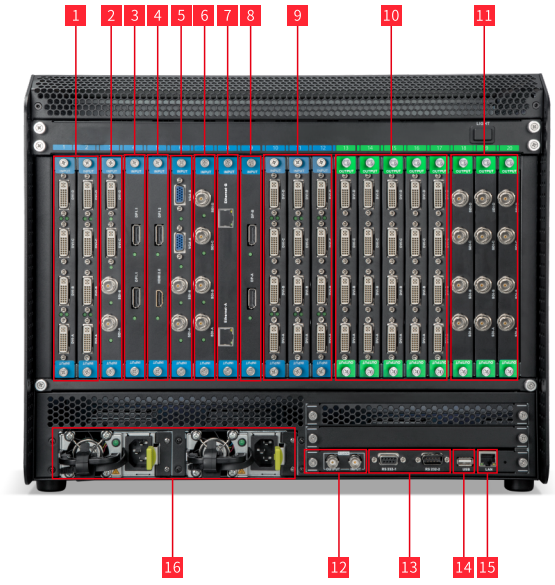


Menu Operation

"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.

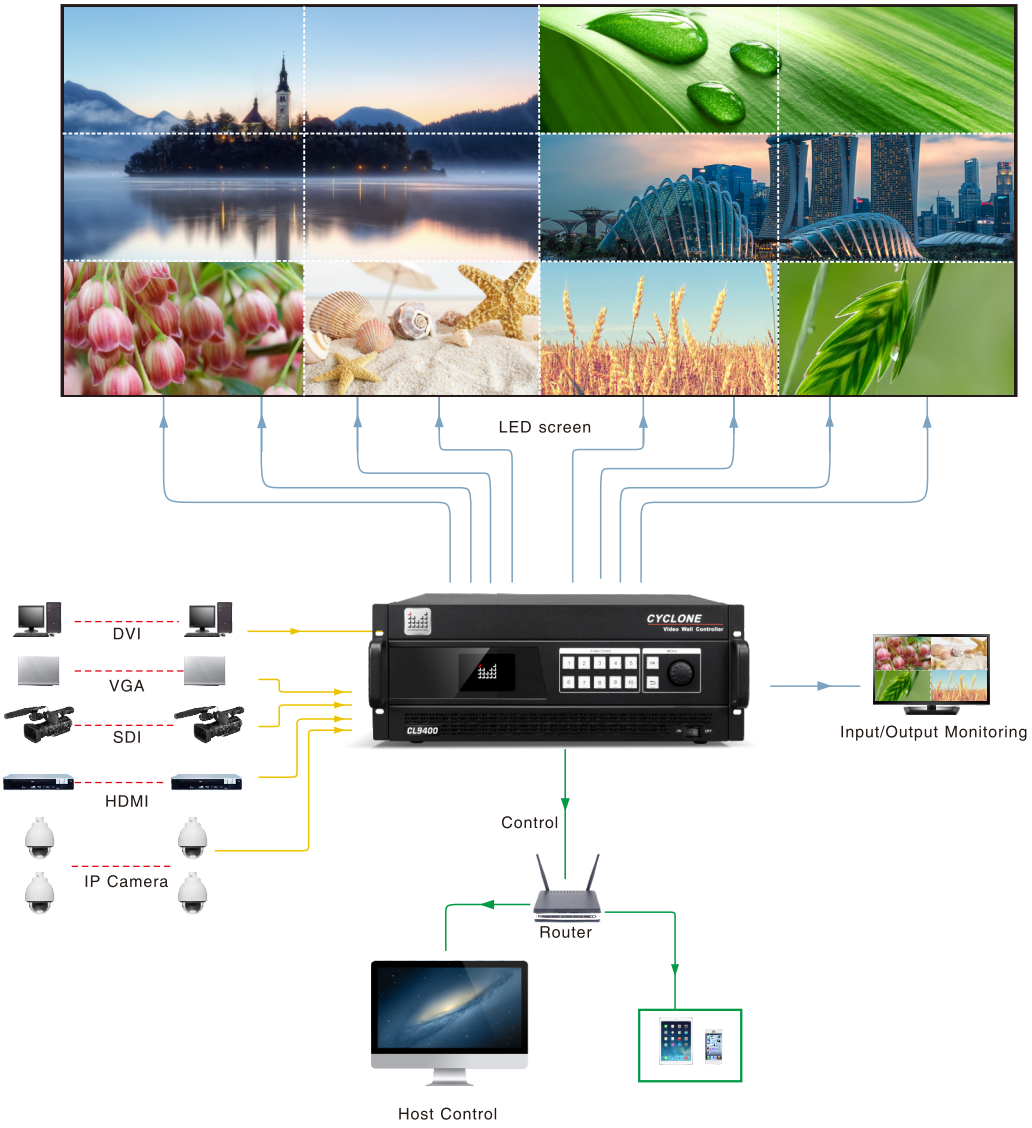


1 DVI Input	2 DVI、SDI Input	3 DP1.1 Input	4 HDMI2.0、DP1.2 Input
5 SDI、VGA Input	6 SDI Input	7 IP Input	8 DP Input
9 DVI Input	10 DVI Output	11 SDI Output	12 Framelock Input/Output
13 RS232 Control Port	14 USB Upgrade Port	15 Network Control Port	16 Dual Power Redundant Backup

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. No frame drop or image tear. Supports 4Kx2K/8Kx1K 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.

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. 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
Input ports	20	32	48
Output ports	12	20	32
Power voltage	110-240V		
Power frequency	50/60Hz		
Operation temperature	0~45℃		
ChassisN.W.(KG)	9.6	11.0	18. 85
Overall power consumption(W)	300	500	750
Dimension(MM)	482.6×371×133	482.6×371×177	482.6×355×430

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

Output card			
Output card type	Port type	Port quantity	Resolution (single DVI 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

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

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