MAGNIMAGE
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MIG-CL9000 series

LED Video Wall Controller

Overview

MIG-CL9000 series is a powerful video wall controller, it is the central processor device for big screen splicing system, to achieve different formats input sources to be displayed in multiple display terminals, functions include arbitrary splice, zooming, windows, overlap, etc.
It adopts high speed FPGA and number bus matrix as the basic hardware structure, and has laid a stable advantage, at the same time it adopts RGB 24 BIT/60Hz real time processing internally, ensuring signal high reduction performance; the internal high performance zooming engine supports multi-screen output seamless splicing, ensuring output image clear, smooth, no delay.
Depth module design supports AV, VGA, DVI, HDMI, SDI, IP, DP(4K) inputs, to achieve input signal EDID management. Output customized resolution is for all kinds of LED pixel to pixel splicing display. All series products are equipped with after sales support module, supporting USB upgrade and network, RS232 serial port control, convenient for technical support and after sales maintenance.
System configuration is flexible, the input and output is available for different choices, currently 3U,4U,8U cabinets are for choosing.
MIG-CL9000 series is widely used in multi-media conference hall, multi-function room,directing and dispatching center, inspection center, theater, television studio, exhibition hall in government, traffic, hydropower, medicare, education, radio and television, malls and various industries.

Main Features

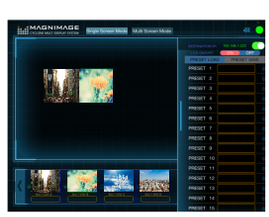
- Pure hardware build-ups
- 4 separated layers per output
- Over 8 times scaling
- Splice LED Wall of Different Pixel Pitch
- Internal 24 bit RGB processing
- 60Hz Real Time Processing
- Input EDID
- Support HDBaseT output
- 4K×2K Input
- Real Time Seamless Switching
- Layer Grouping
- Layer Seamless Switching
- 9 Window Output per Channel
- Easy Change for the Window's Size and Position
- Full Screen Roaming
- Customized Output Resolution
- Input/Output Monitoring
- High Definition Background of Pixel to Pixel Display
- Dual Power Supply Backup
- Operation's Real Time Monitoring
- Real Time IP Monitoring
- Projector Edge Blending Splicing

Operating Modes

3 control modes includes computer host control , Ipad control , and key control
Computer host control : Achieved by connecting the machine with a computer via network cable or RS232 cable. Any operation will be done through the host software.
Ipad control : Achieved by the software designed for Ipad.
Key control: To control and select all the template manually.

Operating Interface

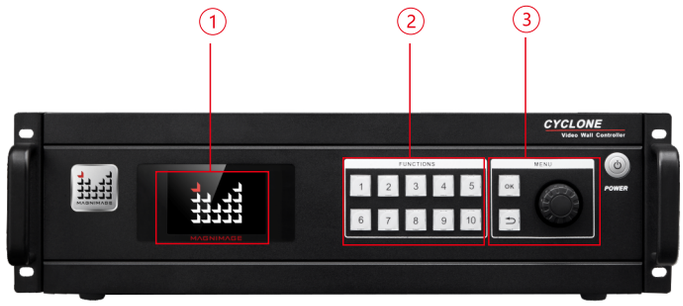
Computer Host interface



Ipad interface

Front And Rear Panel Introduction

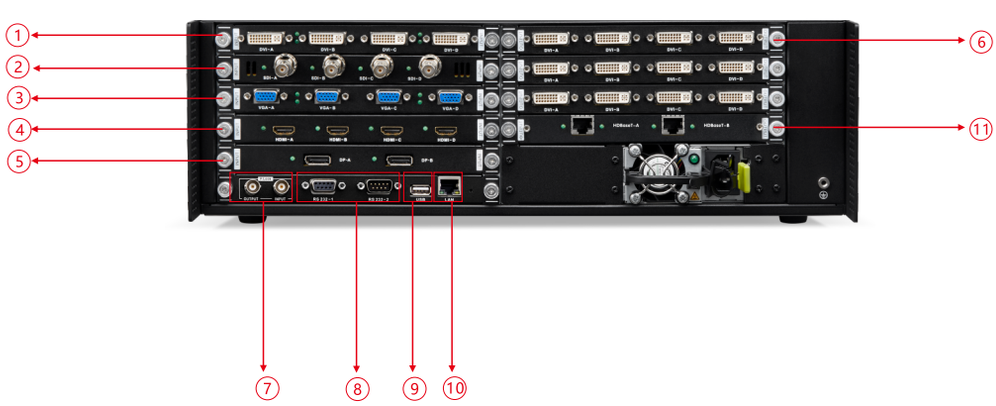
MIG-CL9003



1--LCD Screen:
display the machine's status information, including input/output board, hardware version, temperature, network setting, etc.

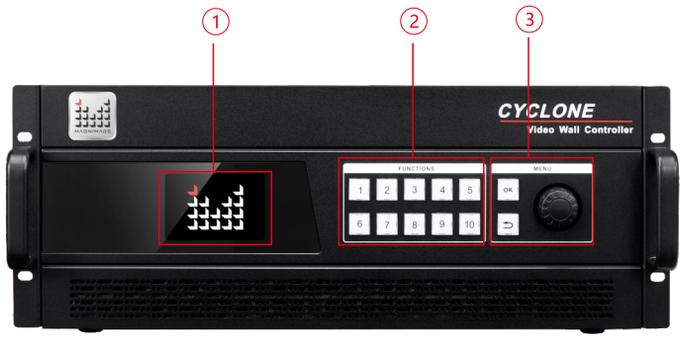
2--Functions Button:
Button 1-10 are for machine's setting like IP, subnet mask, mode shifting.

3--Menu Operation:
"OK", "⮌ " and the Rotate key are used to read the menu on the LCD screen.



1--4×DVI inputs
2--4×SDI inputs
3--4×VGA inputs
4--4×HDMI inputs
5--2×DP inputs
6--DVI outputs
7--Frame lock plugs
8--RS 232 Control Port
9--USB Upgrade Port
10--LAN
11--HDBaseT output

MIG-CL9004



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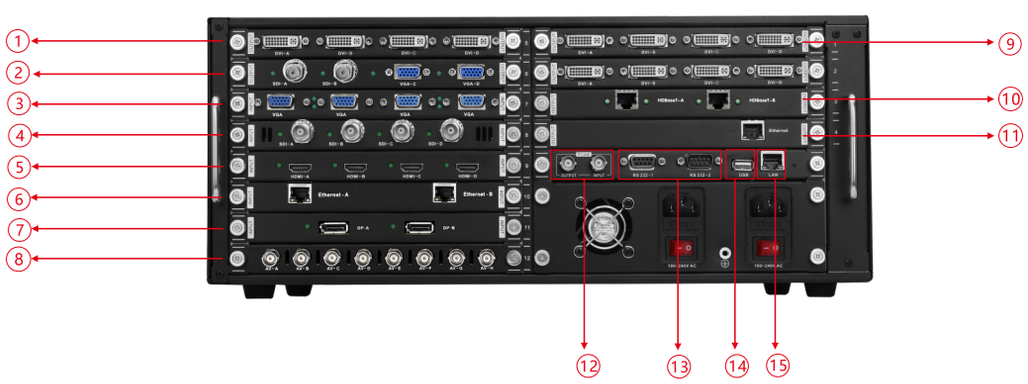
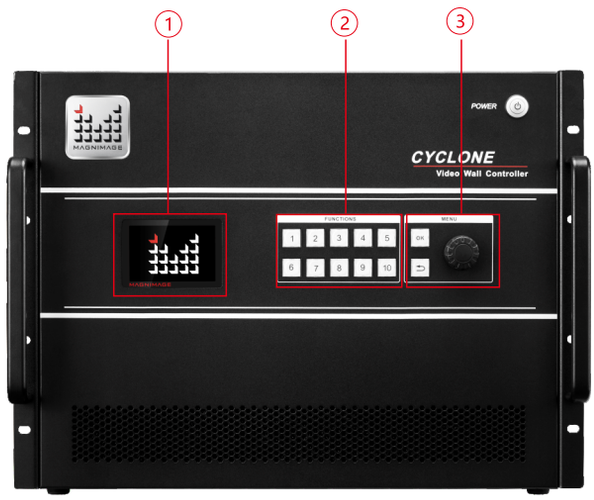


1--4×DVI inputs
2--2×SDI inputs 、2×VGA inputs
3--4×VGA inputs
4--4×SDI inputs
5--4×HDMI inputs
6--2×network inputs
7--2×DP inputs
8--8×AV inputs
9--4×DVI outputs
10–HDBaseT output
11–IP monitoring
12--Frame lock plugs
13--RS 232 Control Port
14--USB Upgrade Port
15–LAN

MIG-CL9008



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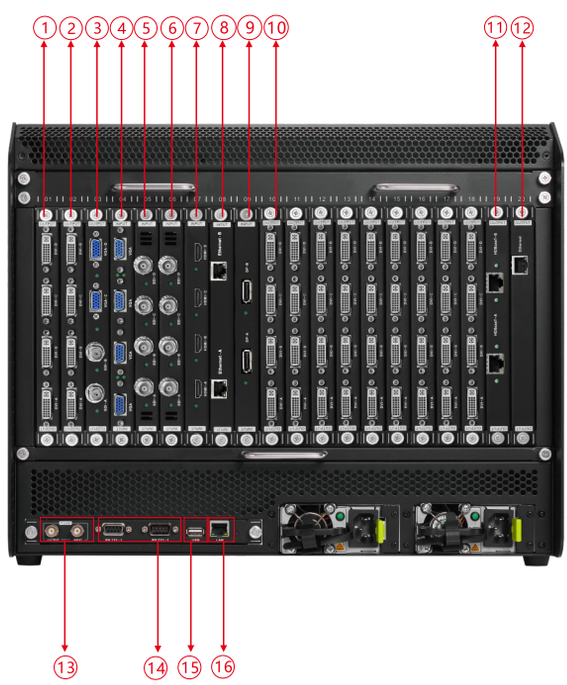


1--4×DVI inputs
2--4×DVI inputs
3--2×SDI inputs 、2×VGA inputs
16–LAN

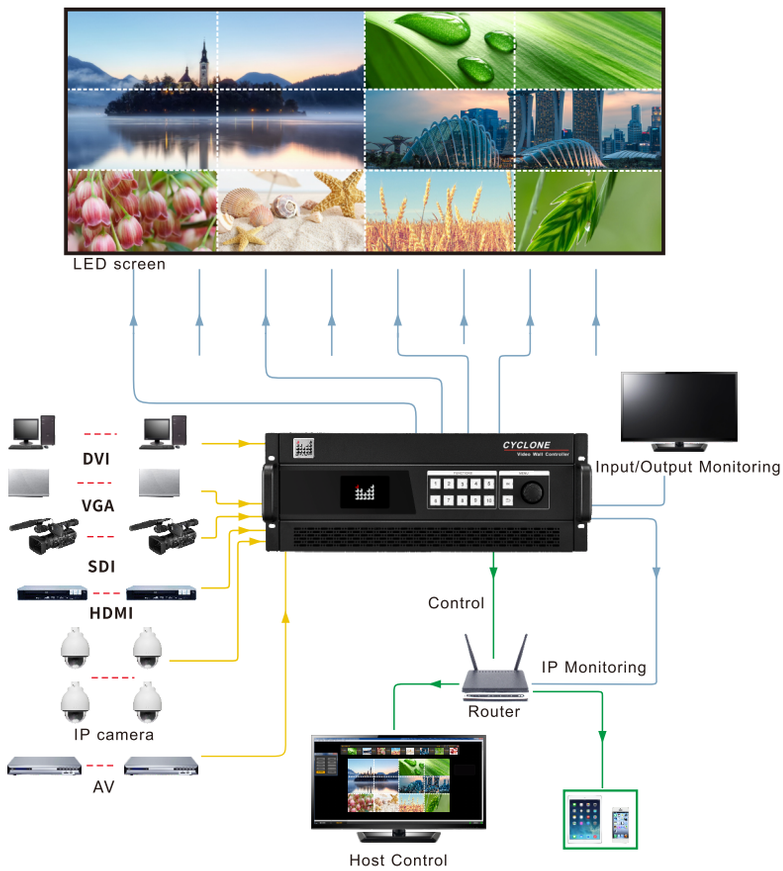
4--4×VGA inputs
5--4×SDI inputs
6--4×SDI inputs

7--4×HDMI inputs
8--2×IP monitoring
9--2×DP inputs

10--4×DVI outputs
11--HDBaseT output
12--IP monitoring

13–Frame lock plugs
14--RS 232 Control Port
15--USB Upgrade Port

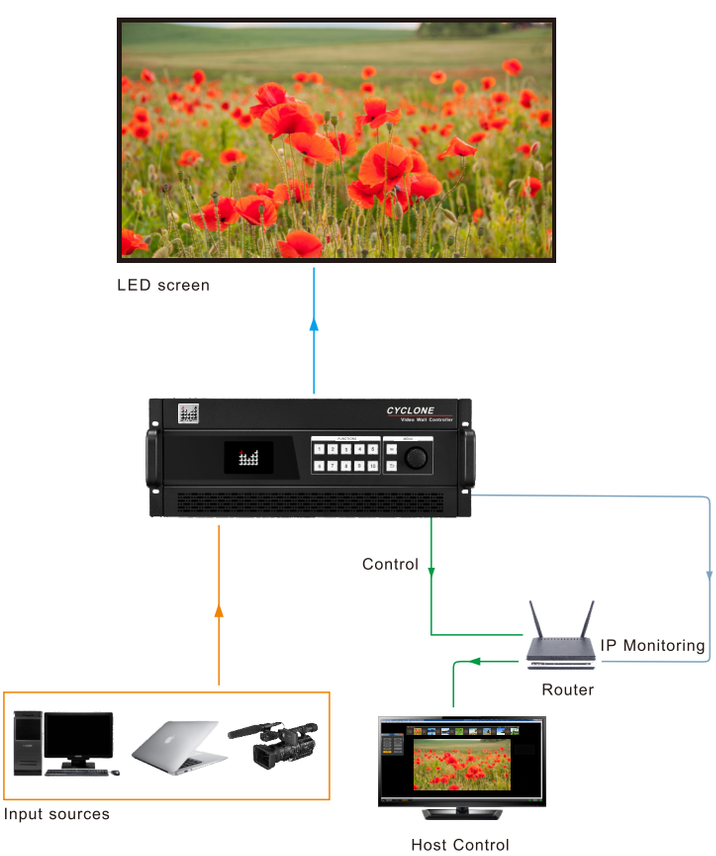
High resolution LED wall splicing



High resolution LED wall splicing

High resolution LED Wall splicing will be realized with corresponding sending cards and the machine's output customization. One 4U chassis machine supports 32 times splicing at most.One 3U chassis machine supports 16 times splicing at most. No frame drop and image tear. Supports 4Kx2K DP input and high resolution pixel-to-pixel display.

IP Monitoring



IP Monitoring

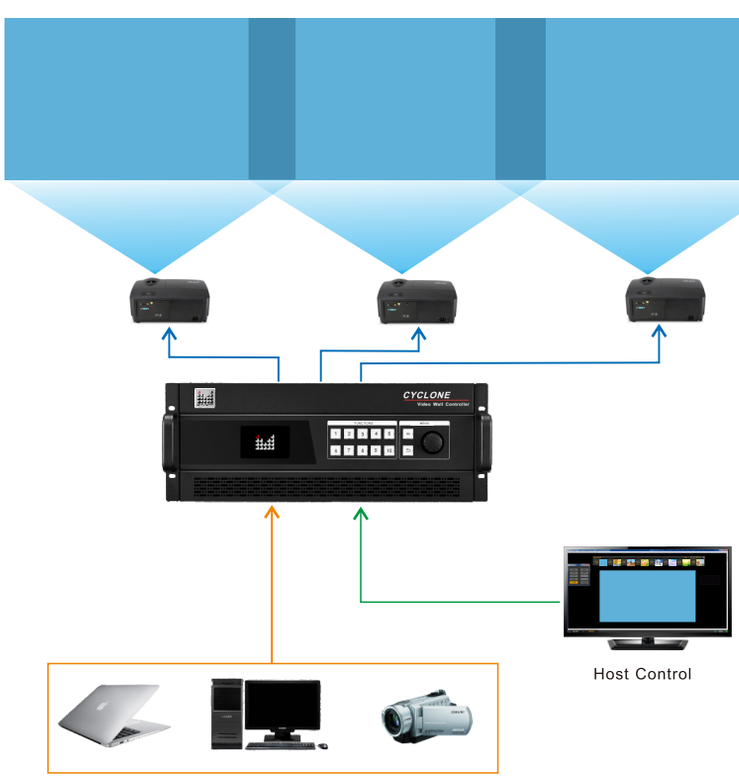
By connecting the network control port, the IP monitor and the host computer into one local area network, it is able to monitor all the input and output by the host software.

4 independent layers output by single channel

4 independent layers output by single channel

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

Projector edge blending splicing



Projector edge blending splicing

One 4U case controller supports 32 projectors splicing at most; one 3U case controller supports 16 projectors splicing at most. Size, position and other parameters of the blending part can be changed via edge blending function.

Technical Specifications

Chassis specification

Chasis	3U	4U-A	4U-B	4U-C	8U
Input channels	20	32	24	16	36
Output channels	16	16	24	32	44
Power voltage	110-240V				
Power frequency	50/60Hz				
Operation temperature	0~45℃				
Chasis N.W.(KG)	9.6	11.0	11.0	11.0	18.85
Overall power consumption(W)	180	350	350	350	700
Dimension(mm)	482.6×371×133	482.6×371×177	482.6×371×177	482.6×371×177	482.6×355×430

Input card

Input card type	Port type	Port quantity	Resolution
AV	PAL/NTSC	8	576i/480i
VGA	RGBHV	4	1920×1080/60Hz
DVI	DVI-D	4	1920×1080/60Hz& EDID management
SDI	3G SDI	4	1080i/60Hz,1080P/60Hz
HDMI	HDMI1.3	4	1920×1080/60Hz
DP	DP1.1	2	3840×1080/60Hz & 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	3840×1080/60Hz & EDID management
DP	DP1.1	2	3840×2160/30Hz

Output card

Output card type	Port type	Port quantity	Resolution
DVI	DVI-D(4 layers)	2×2	1920×1080/60Hz,2560×816Hz, 1440×1440/60Hz & EDID management
DVI	DVI-D(2 layers)	4	
HDBaseT	HDBaseT(2 layers)	2	
DVI	DVI-D(Preview output)	2	1920×1080/60Hz
IP	H.264	1	IP Monitoring

MIG-CL9003 chassis specification (No IP nonitoring in 3U chassis)

Chassis Type	Input slots quantity	Output slots quantity	Control board quantity
MIG-CL9003-A	5	4	1

Power supply	100-240V AC 50/60Hz
Power consumption	Maximum 180W
Operation temperature	0～45℃
Product dimension (L x W x H)	482.6×371.0×133.0mm
N.W.	9.6kg

Including Accessories

Provided accessories :

Power Cable ×1	USB Memory ×1
DVI Cable ×2	DP Cable ×1
HDMI Cable ×1	Certificate ×1
Cable ×2	User Manual ×1

MIG-CL9004 chassis specification

Chassis Type	Input slots quantity	Output slots quantity	Control board quantity
MIG-CL9004-A	8	4	1
MIG-CL9004-B	6	6	1
MIG-CL9004-C	4	8	1

Power supply	100-240V AC 50/60Hz
Power consumption	Maximum 180W
Operation temperature	0～45℃
Product dimension (L x W x H)	482.6×371.0×177.0mm
N.W.	11kg

Including Accessories

Provided accessories :

- User Manual ×1
- DVI Cable ×2
- HDMI Cable ×1
- USB Memory ×1
- Power Cable ×2
- Cable ×2
- DP Cable ×1
- Certificate ×1

MIG-CL9008 chassis specification (AV input board is not accepted in 8U chasis)

Chassis Type	Input slots quantity	Output slots quantity	Control board quantity
MIG-CL9008-A	9	11	1

Power supply	100-240V AC 50/60Hz
Power consumption	Maximum 650W
Operation temperature	0～45℃
Product dimension (L x W x H)	482.6×355.0×430.5mm
N.W.	18.85kg

Including Accessories

Provided accessories :

DVI Cable×2	Power Cable×2
Cable×2	DP Cable×1
HDMI Cable×1	Certificate×1
USB Memory×1	User Manual×1

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