MAGNIMAGE
迈 普 视 通

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

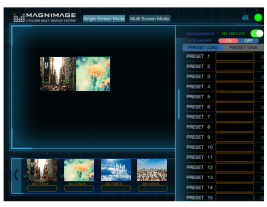
- Pure hardware build-ups
- 4 separated layers per output
- Over 8 times scaling
- Splice LED Wall of Different Pixel Pitch
- Internal 24 bit RGB processing
- 60Hz Real Time Processing
- Input EDID
- 4K×2K Input
- Real Time Seamless Switching
- Layer Grouping
- Layer Seamless Switching
- 9 Window Output 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

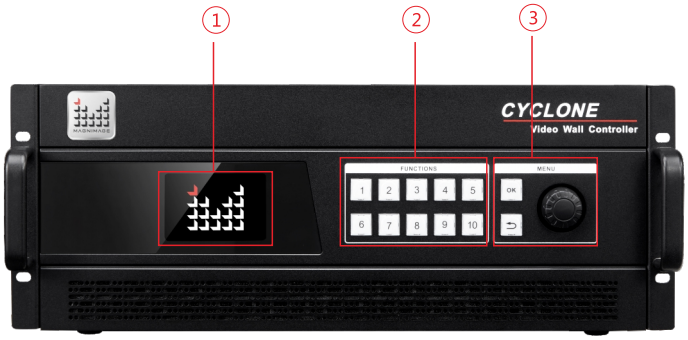
3 control modes includes computer host control , Ipad control , and key control
Computer host control : Achieved by connecting the machine with a computer via network cable or RS232 cable. Any operation will be done through the host software.
Ipad control : Achieved by the software designed for Ipad.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

Operating Interface

Computer Host interface



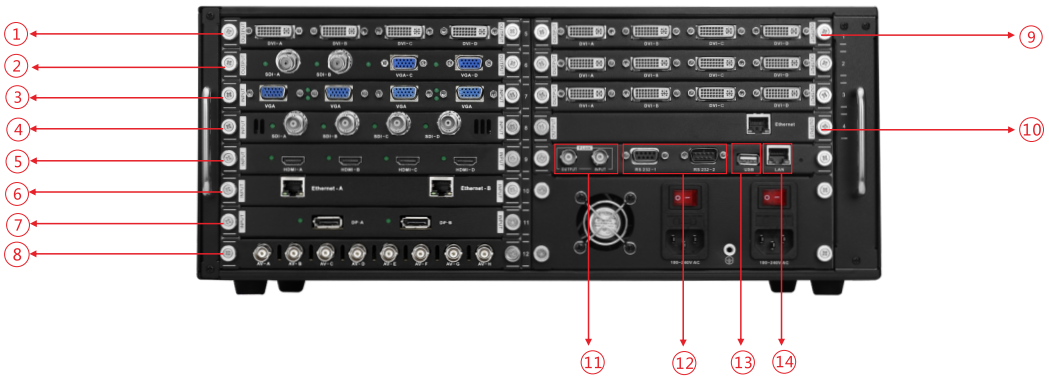
Ipad interface



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

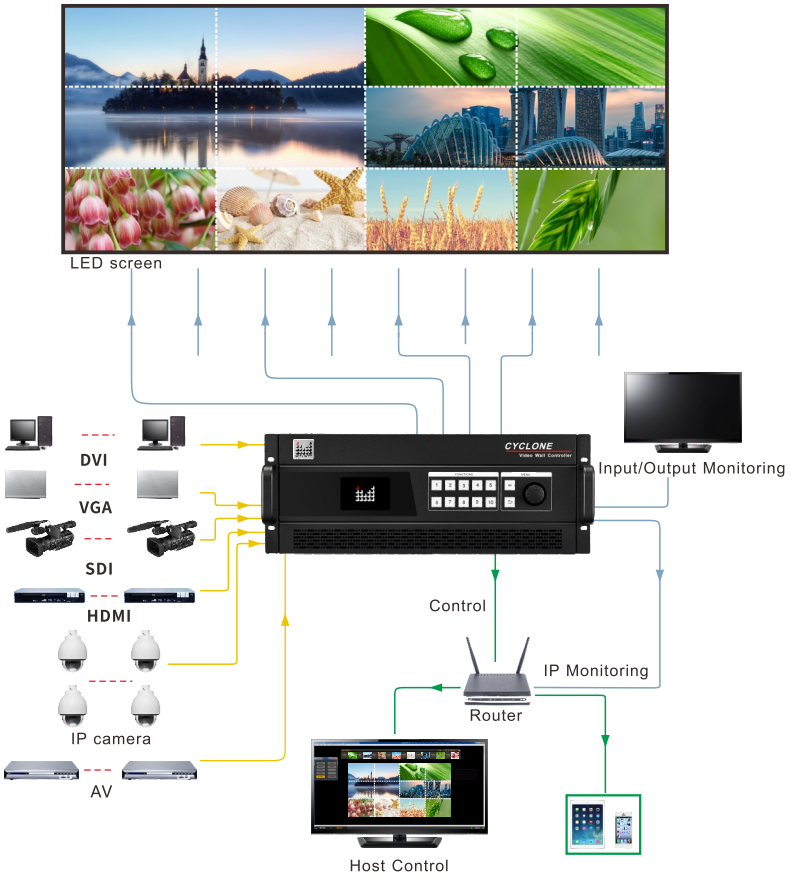
2--Functions Button:
Button 1-10 are for machine's setting like IP, subnet mask, mode shifting.

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



1--4×DVI inputs
2--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--IP monitoring
11--Frame lock plugs
12--RS 232 Control Port
13--USB Upgrade Port
14--LAN

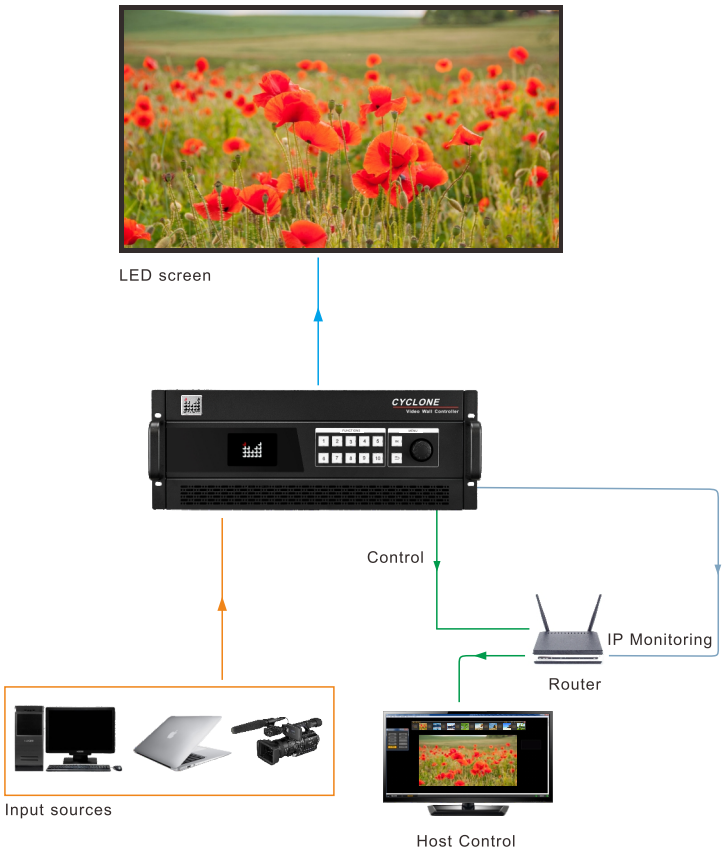
High resolution LED wall splicing



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

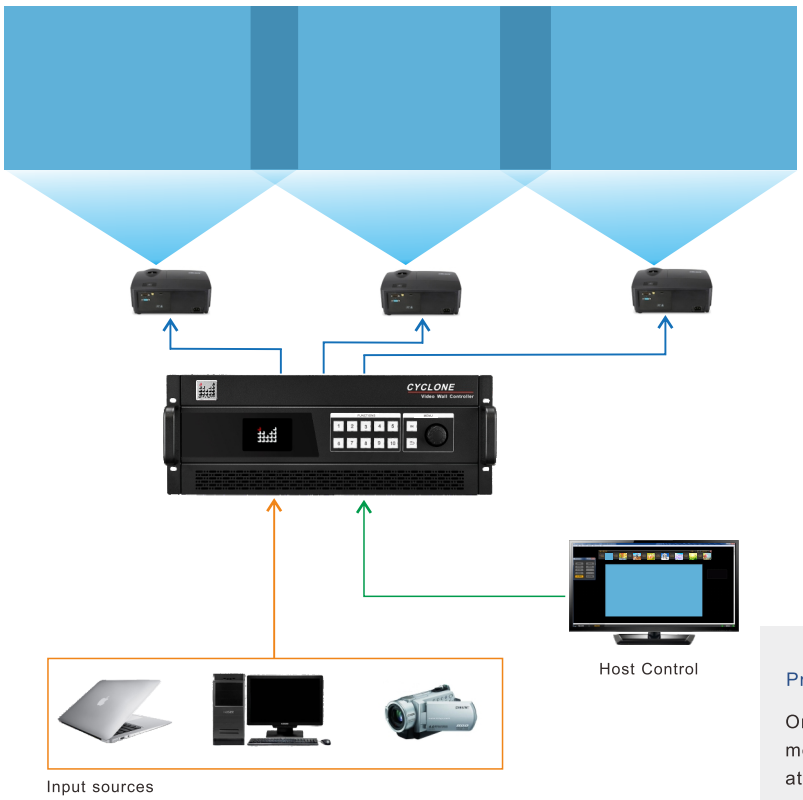
By connecting the network control port, the IP monitor and the host computer into one local area network, it is able to monitor all the input and output by the host software.

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

Input board type and specification

Input Board Type	Ports	NO.	Specification
MIG-CL9000-INAV	AV	8	PAL、NTSC、SECAM
MIG-CL9000-INVGA	VGA	4	VESA
MIG-CL9000-INDVI	DVI	4	VESA,support EDID
MIG-CL9000-INDP	DP	2	DP 1.2 3840×2160/30 Hz
MIG-CL9000-INHDMI	HDMI	4	HDMI-1.3
MIG-CL9000-INSDI	SDI	4	480i、576i、720p、1080i/p(3G SDI)
MIG-CL9000-INIP	IP	2	H.264
MIG-CL9000-INSDIVGA	SDI、VGA	SDI×2、VGA×2	SDI support 480i、576i、720p、1080i/p(3G SDI) VGA support VESA

Output board type and specification

Output board type	Ports	NO.	Specification
MIG-CL9000-OUTDVI-A	DVI	2×2	1024×768/60Hz 1366×768/60Hz 1440×900/60Hz 1440×1440/60Hz 1280×1024/60Hz 1680×1050/60Hz 1600×1200/60Hz 1920×1080/60Hz 2560×816/60Hz Maximum customized horizontal output resolution: 2560 Maximum customized vertical output resolution: 2560
MIG-CL9000-OUTDVI-B	DVI	4×1	
MIG-CL9000-OUTIP	IP	1	Real time IP monitoring