MODULAR

VIDEO WALL CONTROLLER

- **BROCHURE**

NEW

BRIGHT IDEAS

BRIGHT BUSINESS

2021

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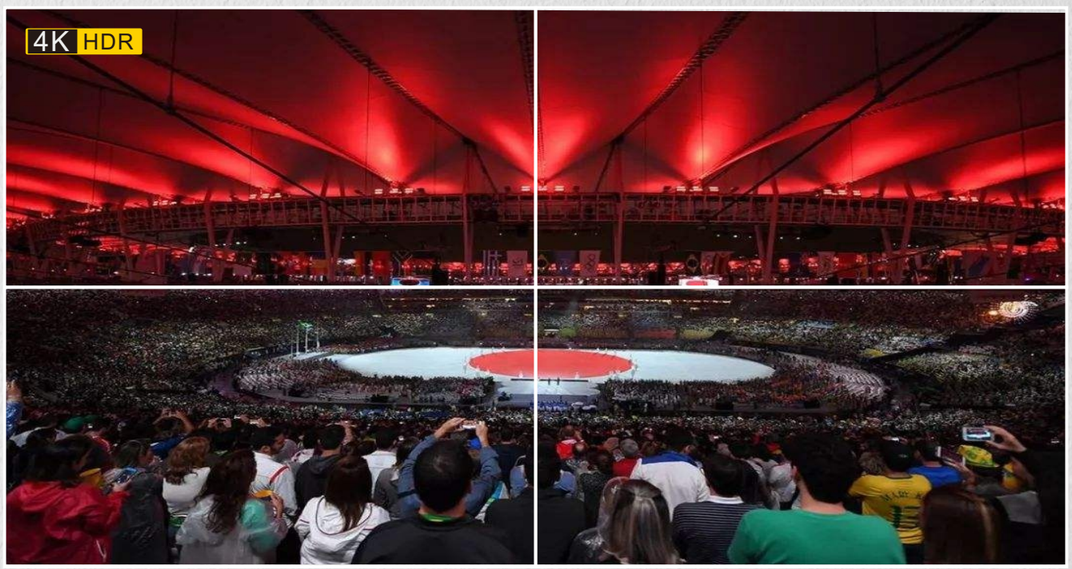
Full color LED image controller

Lossless sampling technology 4K resolution | Ultra-large-scale signal access | Flexible display mode selection | Low latency, seamless switching | Station logo overlay function



Product description

MVP series video wall processor is a powerful high-end image processing device, which can display multiple dynamic pictures on the display terminal at the same time. It is mainly used in large-scale full-color LED splicing system and is the core display control device of the system. The video wall processor can accept high-resolution VGA, DVI, HDMI, SDI, 4K-HDMI, dual-link DVI, 4K-DP, DP, LC, IP, IP4K, HDBaseT, CVBS and other formats of video signals, and according to the user The video signal needs to be adjusted and transformed in terms of window size, display position, image ratio, etc., and can output VGA, DVI, HDMI, HDBaseT, LC, 4K HD and other format signals.

Technical Features

Quick start
Pure hardware architecture, fast start-up process, start working 5 seconds after start

Fast and seamless switching technology
The built-in scaler can realize fast and seamless switching

Automatic data recognition technology
Using automatic data identification technology to automatically identify the signal type of the board

Group management function
This device can support up to 8 groups for control management

HD multi-window point-to-point display
Dual link dual link input, support 4K * 2K and other large resolution display, support any EDID manual modification

Preview, real-time monitoring and echo function
Support hardware preview, real-time monitoring and software echo mode

IP streaming decoding
It has IP streaming media decoding capability, supports standard encoding formats such as H.264 \ H.265 \ MPEEG4, and supports third-party platform linkage alarm function.

Intelligent frame synchronization technology
The new generation of frame sync tech ensures that in the multi-screen splicing display system, there will be no tearing, misalignment or tailing in the moving image picture

Subtitle overlay function
The font color and position can be arbitrarily set to achieve a higher degree of integration.

Lossless sampling technique
Adopt 4: 4: 4 sampling technology, bandwidth up to 18Gbps, support 4K resolution signal

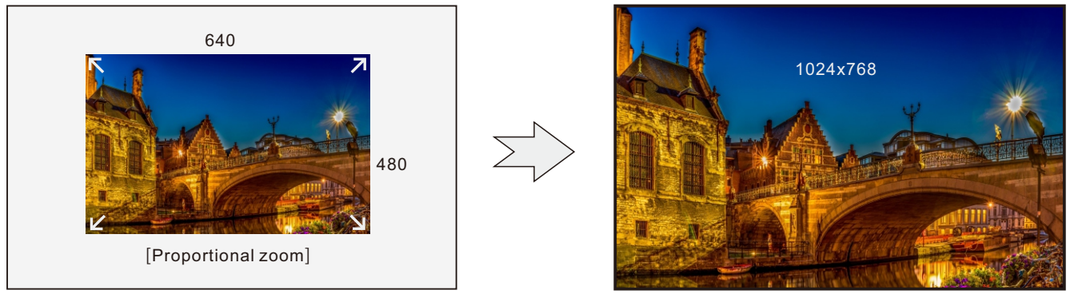
Fast and seamless switching technology

Compared with the seamless switching, there is no black screen or blue screen during the seamless switching process, which maximizes the comfort of the screen.

Flexible display modes

Each channel of MVP video wall processor can accept four kinds of input data: NTSC or PAL VIDEO signal, VGA and RGB signal. The signal of each channel can be displayed in the specified window in real time, and the window zooming, window stretching, picture-in-picture display and other operations can be performed.

Window zoom display



Input window resolution: 640x480

After the output window is enlarged: 1024x768

Window stretch display

Input window resolution: 640x480

After the output window is stretched: 950x700

Multi-screen display

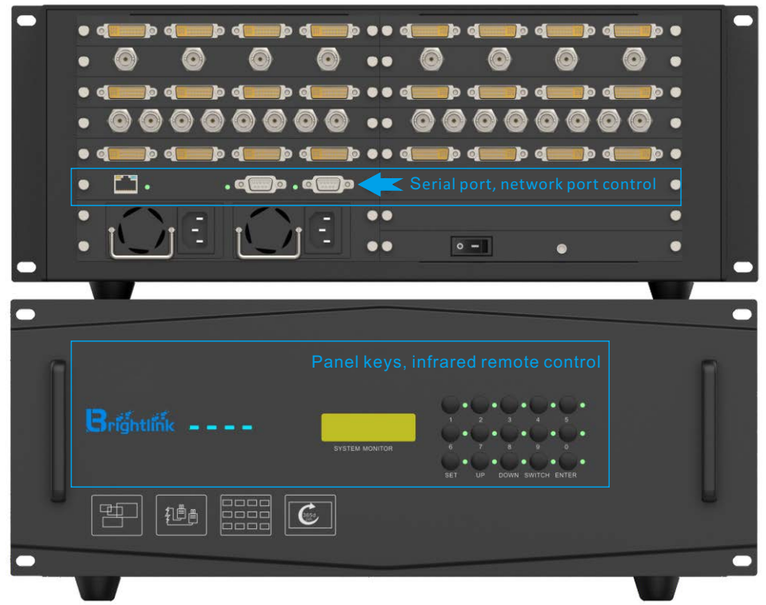
Four input signals

Four signals occupy a quarter of the output window

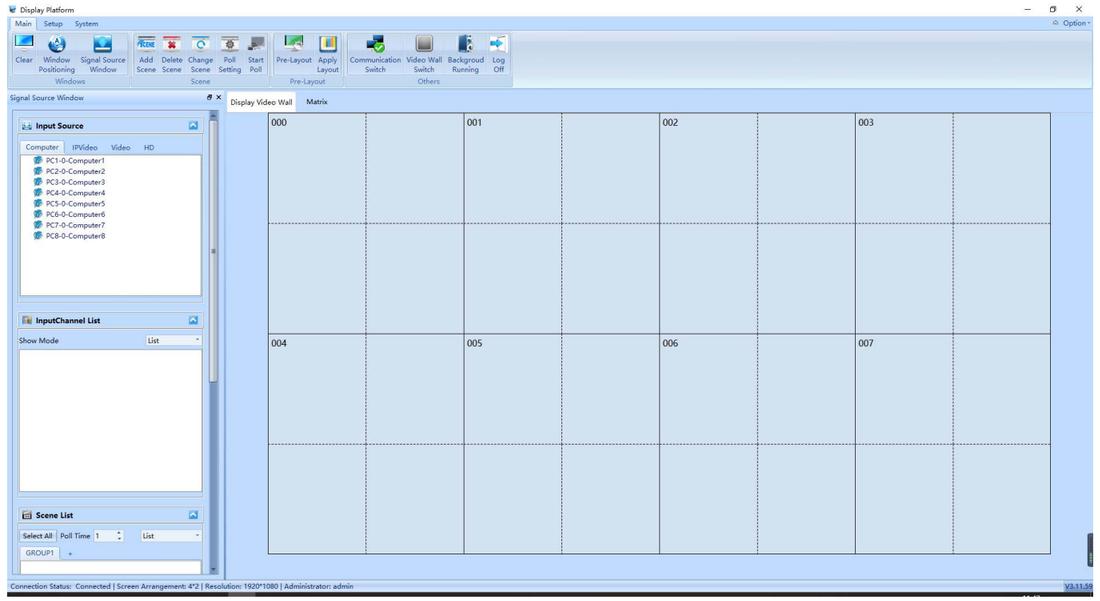
There are more display modes: picture-in-picture display, multi-screen display, cascading screen display, echo preview and other modes.

Convenient control

The video wall processor has multiple control methods, including panel buttons, infrared remote control, serial port, network port control, and supports iPad and Android Pad system control.



Front view of the front and rear panels of the MVP1000L video wall controller



Control software

Control software: more concise, intuitive and convenient for a series of management such as signal switching, scene application, window splicing and zooming, display setting, hardware parameter setting

Input Card

4 way HDMI input card

Functional characteristics: Input 4 HDMI signals; HDMI interface data rate 6.75Gbit / s; built-in HDCP internal management, DVI1.0 and HDMI1.3; built-in EDID (extended display identification data) and DDC management; support 1920 * 1200 @ 60Hz, 2048 * 1080 @ 24Hz, compatible with HDTV;

DVI signal input card

Features: input 4 multi-format signals, signal types: VGA, DVI, HDMI, YPbPr; support 1080P @ 60Hz, 1920 * 1200 @ 60Hz and below standard resolution, compatible with HDTV;

Optic fiber input card

Features: input 4-channel optical fiber digital signal optical fiber input card, physical interface: LC, single multimode multiplexing module optical signal (0-30km);

HDBaseT input card

Features: Input 4 HDBaseT modules; use CAT5e / 6 cable to output 100 meters; support HDBaseT1.0 protocol and HDCP protocol;support 1080P @ 60Hz, 1920 * 1200 @ 60Hz, compatible with HDTV;

VGA input card

Features : input 4 VGA signals; compatible with VGA, SVGA, XVGA, SXGA, UXGA, WUXGA, HD1080P video signal input; full load bandwidth 450MHz (-3dB); supports 1080P @ 60Hz and below standard resolutions, compatible with HDTV;

4 way DP input card

Features : input 4 DP high-definition digital signals, maximum resolution 4k @ 60Hz;

Composite video input card

Features : Support input 8 AV video signals compatible with NTSC 3.58, NTSC4.42, PAL and SECAM video signals

SDI input card

Features : Features: Input 4 SDI signals; support SD-SDI, HD-SDI, 3G-SDI standards, support 1080p HD video; comply with SMPTE424M, SMPTE292M, and SMPTE259M standards, support hot swap.

2 way DP input card

Features : Input 2 DP high-definition digital signals, maximum resolution 4k @ 60Hz

4K HDMI input card

Features : Features: Input 2 HDMI signals; support HDMI 2.0 protocol, resolution 4K @ 60Hz

4K IP input card

Features : input 2 channels of IP streaming media input signal; single port supports decoding 4 channels 4K @ 30Hz, supports H.265 protocol

2 way HDMI input card

Features : Input 2 HDMI signals; support HDMI 1.4 protocol, HDCP 1.3 protocol, compatible with DVI 1.0 standard; support EDID and DDC management; support HDMI 3D format signal transmission; support resolution 4K @ 30Hz

Input Card

2 way DVI input card

Features : The input supports 2 Duallink, 24 + 5 pin DVI-I female socket. Support EDID management (modify, copy, backup), compatible with HDCP digital content protection protocol. Support 2560 * 1600 @ 60Hz, 4K @ 30Hz resolution.

2 way IP input card

Features: Input 2 IP streaming media signals, single port supports decoding 16 channels 1920 * 1080 @ 30Hz, 32 channels 720P and other standard RTSP protocol streaming media signals, support H.264 / H.265 protocol.

Output Card

4 way HDMI output card

Features : output 4 HDMI signals; HDMI interface data rate 6.75Gbit/s; built-in HDCP internal management, DVI1.0 and HDMI1.3; built-in EDID (extended display identification data) and DDC management; support 1920 * 1200 @ 60Hz, 2048 * 1080@ 24Hz, compatible with HDTV;

2 way HDMI output card

Features : output 2 HDMI-4K high-definition digital signals, physical interface: HDMI Type A, maximum resolution: 3840 * 2160 @ 30Hz

DVI output card

Features : output 4 high-definition digital signals; physical interface DVI-D, support 1080P @ 60Hz, 1920 * 1200 @ 60HZ and below standard resolution.

Fiber output card

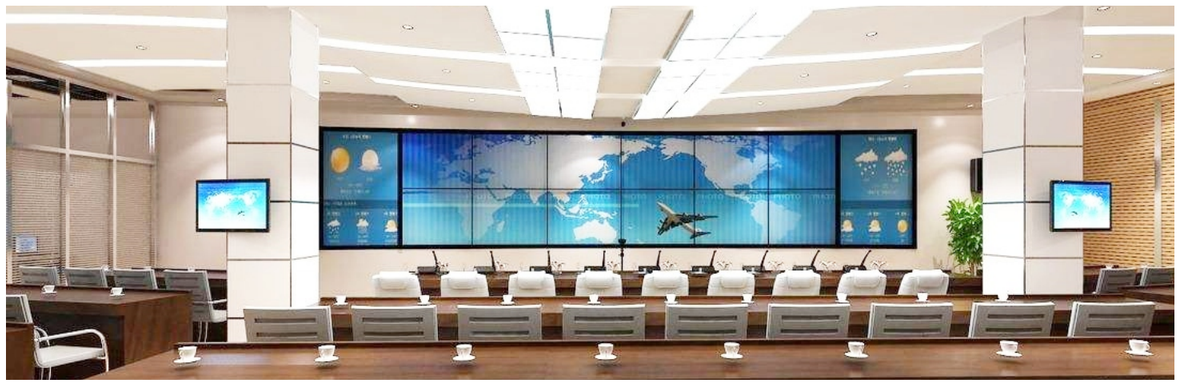
Features : output 4 optical fiber signals; support input of LC optical fiber interface; support OM3 optical fiber transmission distance of 300m; maximum support 1080P @ 60Hz, 1920 * 1200 @ 60Hz, compatible with HDTV.

HDBaseT output card

Features: Output 4 HDBaseT modules; use CAT5e / 6 cable to output the longest distance up to 100 meters; support HDBaseT 1.0 protocol, HDCP protocol; maximum support 1080P @ 60Hz, 1920 * 1200 @ 60Hz, compatible with HDTV;

VGA output card

Features : output 4 optical fiber signals; support input of LC optical fiber interface; support OM3 optical fiber transmission distance of 300m; maximum support 1080P @ 60Hz, 1920 * 1200 @ 60Hz, compatible with HDTV.



Specifications

Model: BL-MVP500L

2U standard industrial control chassis

Model: BL-MVP1000L

4U standard industrial control chassis

Model: BL-MVP8000L

28U standard industrial control chassis

Model：BL-MVP2000L

8U standard industrial control chassis

Model：BL-MVP4000L

16U standard industrial control chassis

Product name	MVP series full-color LED image processor
Functional description	A single sending card output can display up to 8 windows at the same time
Input signal (optional)	CVBS, VGA, DVI, HDMI, SDI, 4K-HDMI, DVI, 4K-DP, DP, LC, IP, IP4K, HDBaseT, etc.
Input resolution	XGA / SXGA / SXGA + / UVGA / WUXGA / 1080p / 4K * 2K, etc., also compatible with special customized ultra-high resolution, support Dual-Link dual link input
Output signal	HDMI, VGA, DVI, HDBaseT, LC, 4K HD output
Output resolution	3840 * 2160 @ 60Hz (downward compatible with general resolution)
Control software	AppPresenter AppPresenter special control software supports IOS system and android system
Power Supply	100VAC～240VAC，50/60Hz
Power	Consumption 12w / channel
Ethernet control interface	RJ-45 female interface, TCP / IP protoco
Ethernet control	Speed Adaptive 10M or 100M, full duplex or half duplex
Serial control interface	RS-232, 9-pin female D-type interfaceBaud rate
Baud rate	115200
Chassis specifications	2U / 4U / 8U / 16U / 28U standard industrial control chassis
Operating temperature	-15℃—+60℃
Working humidity	10-90%

System topology