

GRAPHIC AND IMAGE INTEGRATED MANAGEMENT PLATFORM



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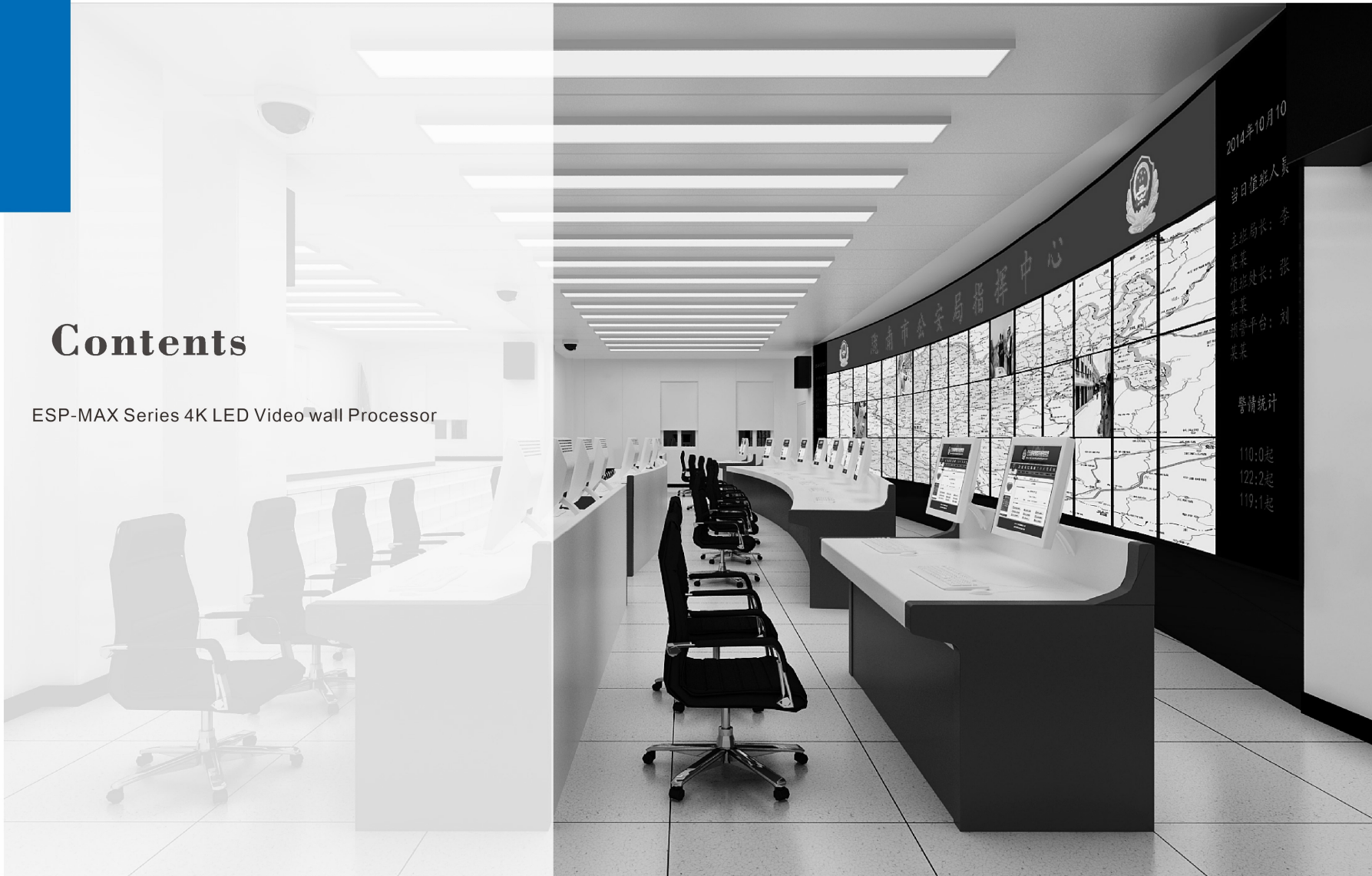
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ESP-MAX Series 4K LED Video wall Processor



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ESP-MAX160160



ESP-MAX7272

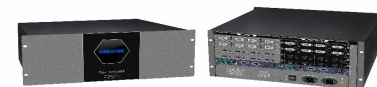


Product Introduction

The ESP-MAX series video wall processor is a flexible and seamless switching processor for video walls. Supports up to 320 signal input and output channels, supports inserting input cards into output card slots, and provides more flexible input and output card selection. The video wall processor adopts high-performance hardware design, perfectly supporting various high-definition digital/analog signal switching processing, and supporting non-standard resolution splicing output of irregular LED video walls. It also supports dual control card backup function, and the board supports hot plugging. Supports window opening of any size, layer overlay, roaming, etc., providing a one-stop solution for various video and control signal distribution and switching processing in various industries.



ESP-MAX3636

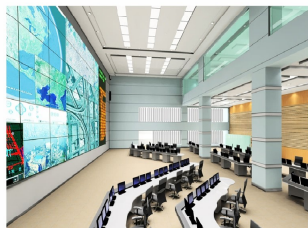


ESP-MAX1616



ESP-MAX0808

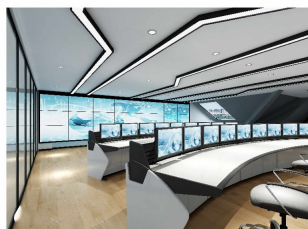
Application Scenarios



Command Centers



Monitoring Centers



Operations Management Centers



Dispatch Centers



Data Centers



Conference Centers

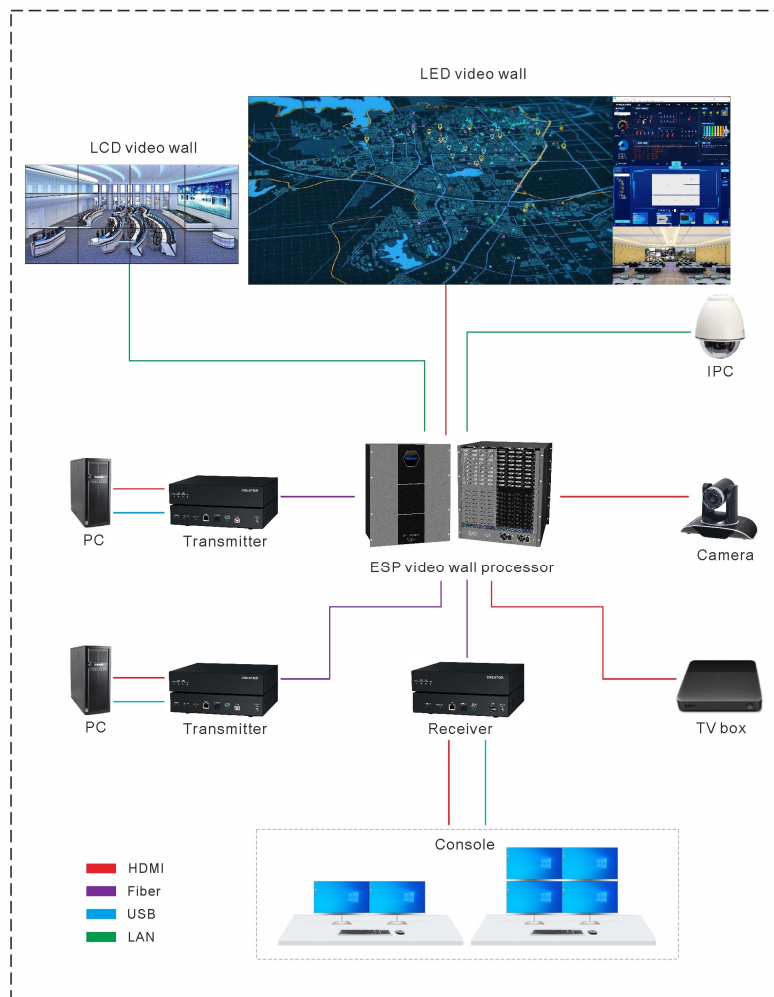


Financial Media Centers



Multi Meeting Room Management

System Topology Diagram



Product Features

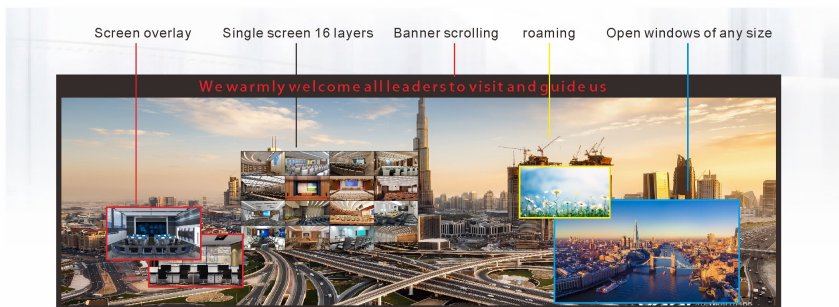
Visual Preview and Real-Time Monitoring

Supports visual real-time preview on a PC, with the ability to display at least 16 channels simultaneously. It also allows for graphical real-time monitoring of various modules, including the status of boards, power supply, fans, and chassis temperature.



Diverse Splicing Display Effects

Supports diverse display effects for different types of video signals on the display screen, including full-screen, picture-in-picture, overlay, and up to 16 layers on a single screen. It also supports features such as subtitle scrolling, high-definition image display, and full-screen reflection.



Dual Control Cards and Dual Power Supply Backup

The ESP-MAX series processor features a dual control card and dual power supply architecture. In the event of a failure in the primary control card or power supply, the system automatically switches to the backup control card or power supply without affecting the matrix switching and large-screen display, ensuring uninterrupted and stable operation.



Real-time Synchronization

Adopting a self-developed stepless scaling algorithm, the image is guaranteed to be displayed synchronously on the splicing wall after scaling. When compressing the original image, the edges of the image transition smoothly, the overall image is uniform without deformation, and the text lines are still clear and distinguishable, presenting a clearer and more natural display effect for users.



IPC Decoding and One-Click On-Screen Display

Supports real-time decoding of a large number of IPC signals. A single card can support up to 50 channels of 1080P signal decoding and also supports switching and drag-and-drop display of IPC signals, enabling one-click on-screen display and easy preview and monitoring of multiple signals.



Seamless 4K Signal Switching and Fast Response

Supports 4K ultra-high-definition signal transmission, providing clearer and more detailed text and images. With an independently developed seamless scaling algorithm, it ensures synchronized display on the splicing wall. When compressing the original image, the edges remain smooth, and the overall image is uniform without deformation. Text lines remain clear and legible, and the signal switching process is free from flickering, black screens, jitter, or other issues, providing a seamless and instant switching experience.



ESP-MAX series LED video wall processor



Other brands of video wall processors

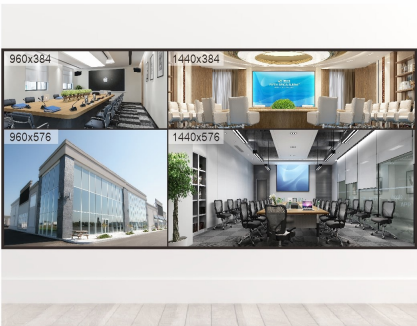
KVM Seat Management

Support KVM seat collaboration management function, support mouse scrolling operation, OSD menu, group partitioning, one click on screen, screen sharing and other seat functions.



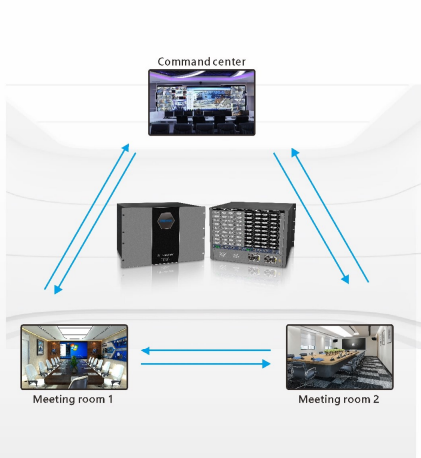
Custom Resolution

Support splicing output of non-standard resolution LED screens, with single port resolution setting for splicing output, providing higher application flexibility.



Cross Platform and Cross System Interconnection and Interoperability

Support the interconnection and intercommunication of audio and video signals between different platforms and systems, achieving signal sharing and switching between multiple rooms and scenes.



Modular Hardware Architecture with Flexible Configuration

Adopting a modular design with mixed insertion of board cards, flexible configuration, and online maintenance and expansion. Supports silent fan hot plugging, can be replaced separately in case of failure, supports redundant power supply to ensure uninterrupted operation of the equipment.



System parameters

Specifications	Model	ESP-MAX 0808	ESP-MAX 1616	ESP-MAX 3636	ESP-MAX 7272	ESP-MAX 160160	
Interface							
Number of supported input cards/input ports		3/12	7/28	17/68	35/140	47/188	
Number of supported output cards/output ports		2/8	4/16	9/36	18/72	40/160	
Supported input card models		EMAX-IN HDMI4 ; EMAX-IN DV14 ; EMAX-IN HD4 ; EMAX-VGA4 ; EMAX-IN SF4 ; EMAX-IN SD14 ; EMAX-IN IP2 ; EMAX-IN DP4 ; EMAX-IN DP2 ; EMAX-IN HDMI2 ; EMAX-IN SF2 ; EMAX-IN Hd2 ; EUHD-IN HDMI4					
Supported seamless output card models		EMAX-OUT HDMI4 ; EMAX-OUT DV14 ; EMAX-OUT HD4 ; EMAX-OUT VGA4 ; EMAX-OUT SF4 ; EMAX-OUT SD14 ; EMAX-OUT IP2 ; EMAX-OUT DP4 ; EMAX-OUT HD2 ; EMAX-OUT HDMI2 ; EMAX-OUT SF2 ; EUHD-OUT HDMI4					
Supported video wall output card models		EMAX-PJOUT HD4 ; EMAX-PJOUT DV14 ; EMAX-PJOUT SF4 ; EMAX-PJOUT HD2 ; EMAX-PJOUT DV12 ; EMAX-PJOUT SF2 ; EUHD-PJOUT HDMI2					
Preview card		EMAX-PR LINK					
Interface bandwidth		13.5Gbps					
Serial control interface							
Serial port type		RS-232, 9-pin female D-type interface and 9-pin male D-type interface, 3-pin Phoenix serial port					
Baud rate and protocol		Baud rate: 9600, data bits: 8, stop bit: 1, parity bit: none					
Serial port pin definition		9-pin female D-type interface: 2=TX, 3=RX, 5=GND; 9-pin male D-type interface: 2=RX, 3=TX, 5=GND					
KEYBOARD control interface							
Interface type		4-pin 3.8mm Phoenix interface					
Usage		Used in conjunction with extended keyboard MCP100					
Interface pins		+5V=DC5V, +=DATA+, -=DATA-, GND=ground					
Ethernet control							
Interface type		RJ-45 female interface					
Control protocol		TCP/IP					
Interface rate		Adaptive 10M/100M, full duplex or half duplex					
Other							
Power supply		100VAC~240VAC, 50/60Hz, international adaptive power supply					
Operation temperature		-10°C~55°C					
Working humidity		20%~93%					
Chassis size		3U	4U	7U	11U	25U	
Product weight (excluding any cards)		About 5KG	About 7KG	About 16KG	About 29KG	About 80KG	
Mean time between failures		100,000 hours					