



MIG-DN9404 is a video controller of full 4K input/output, the centerpiece of a large-screen splicing system. It can realize multiple input sources in different formats, and can be used for splicing, scaling, PIP, roaming, and overlaying on a variety of display terminals. The hardware architecture based on large-capacity, high-speed FPGA and a high-speed digital bus matrix ensures high signal reproduction and clear, smooth, latency-free output images.

The deeply modular design allows for on-demand input/output configurations and supports 4U and 8U chassis currently. The MIG-DN9400 series is widely used in a variety of multimedia conference rooms, multifunctional halls, command and control centers, monitoring and control centers, theaters, studios, and exhibition halls in the government, transportation, utilities, healthcare, education, telecommunications, and shopping malls industries, etc.

Features

-  Pure FPGA architecture, stable and reliable
-  Supports multiple 4K/60Hz inputs.
-  Supports multiple 4K/60Hz outputs.
-  4* 4K layers for each single output
-  customized resolution and refresh rate for input/output
-  Supports 10BIT input/output.
-  Supports HDR10.
-  Presets seamless switching
-  Output screen grouping control.
-  Time task.
-  Monitor output
-  Software echo.
-  Projection blending.
-  caption.
-  Supports background
-  Supports center control

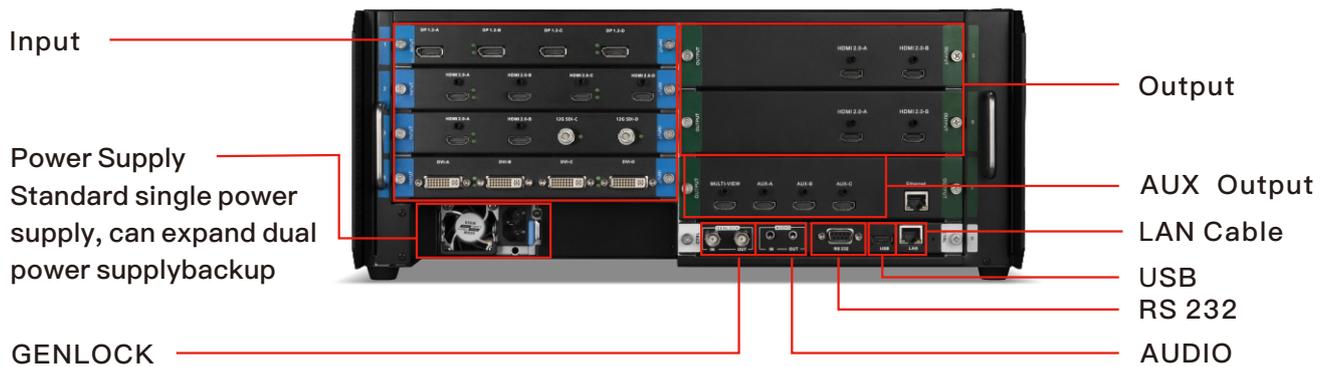
◇ MIG-DN9404 introduction



◇ MIG-DN9404-A introduction



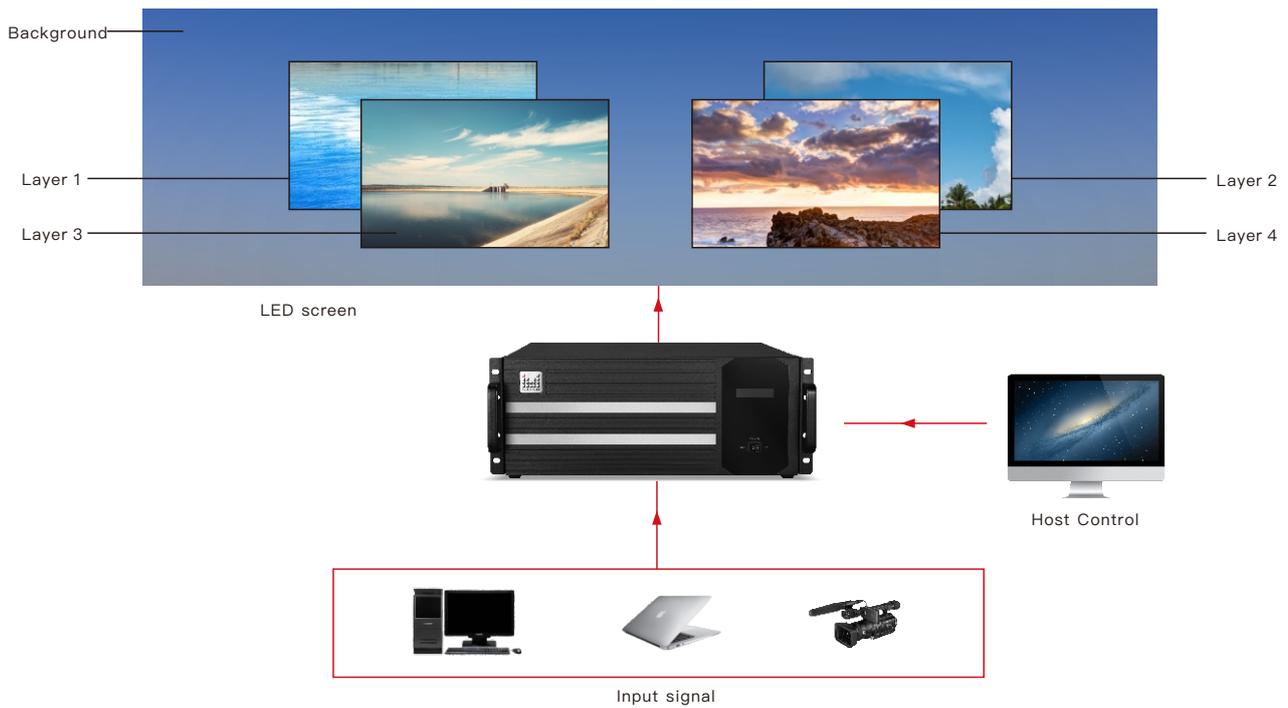
◇ MIG-DN9404-B introduction



▮ Various Inputs and Outputs

▮ Maximum 4 independent layers for each single-channel output.

A single HDMI output channel supports simultaneously up to 4 independent layers and a high-definition background, with the size, position, and top and bottom stacking levels of each layer being freely configurable; the built-in video matrix function on the input side means that the display of each layer can be selected from any of the input signal sources.



▮ Support Time Task function

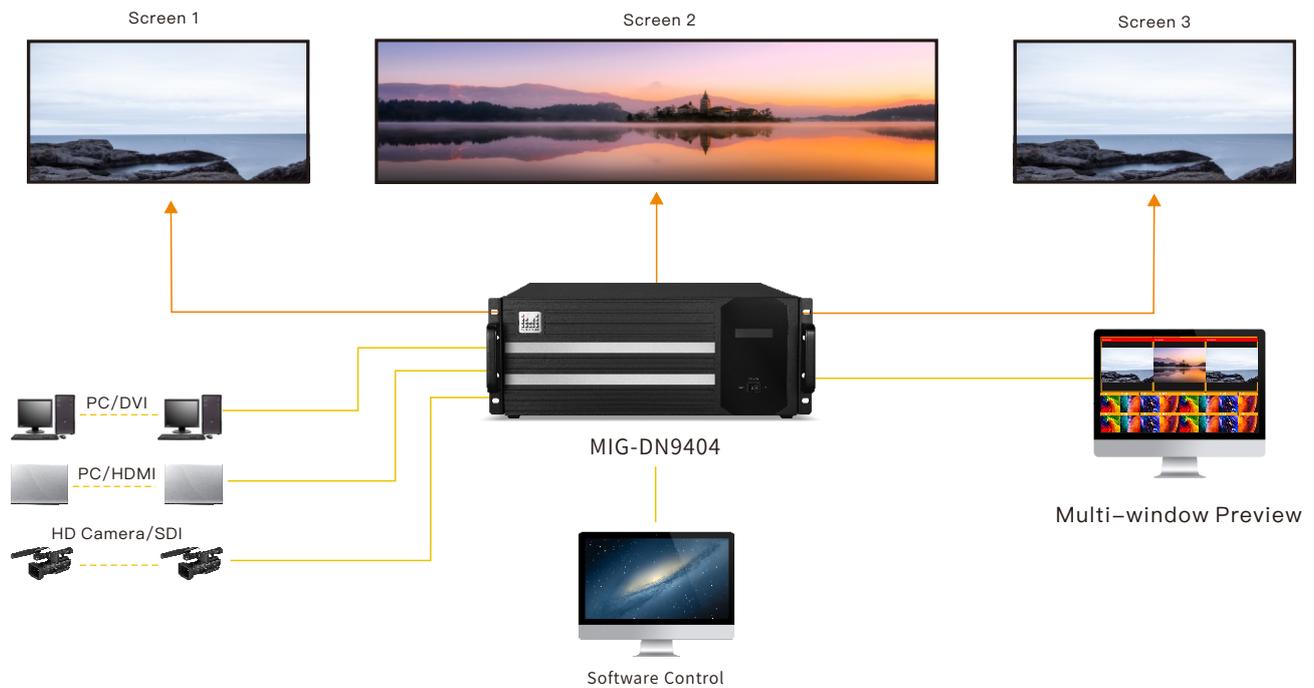
Auto switch the preset according to the time task setting.



▮ Various Inputs and Outputs

🖥️ Output Screen Group Control

The output of the machine can be grouped according to the location, usage, and attributes of the screens at the scene. After grouping, you can perform operations such as positioning and layer editing according to the specific requirements of each group of output screens, and after editing, you can also perform preset switching for one or more groups of screens for precise control of the scene.



🖥️ Scrolling caption

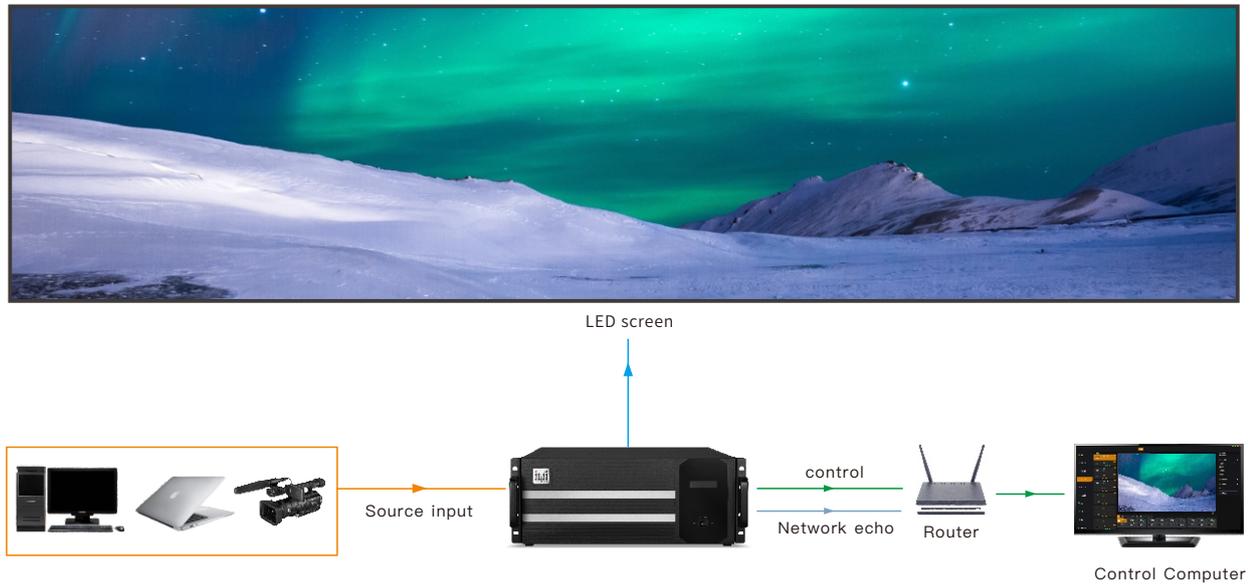
Edit text content, size, color, scrolling speed and background color through software.



▮ Various Inputs and Outputs

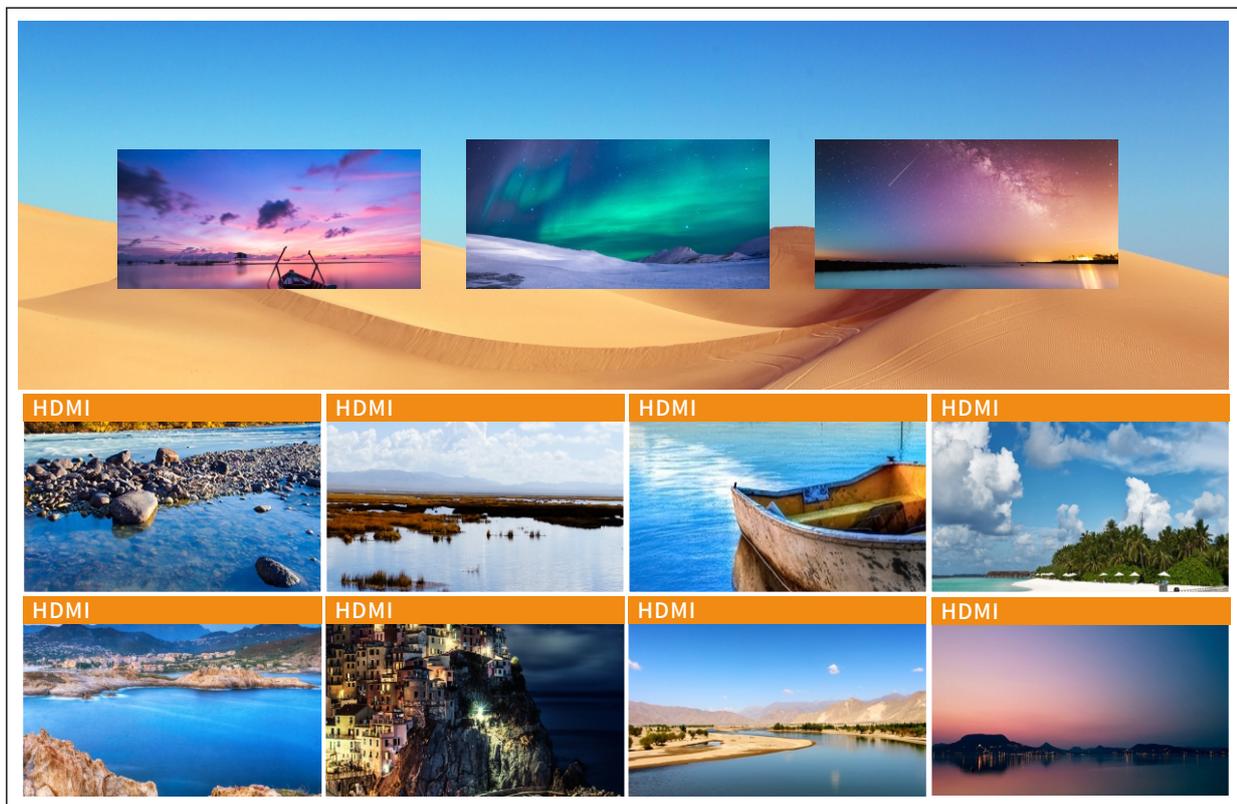
🖥️ Software Echo

By placing the grid console, the grid display, and the control host of the splicer in the same local area network, you can realize real-time monitoring of all input and output images in the host computer software.



🖥️ Multi-previewing Output

Multi-window monitoring output enables real-time monitoring of each input source and output image.

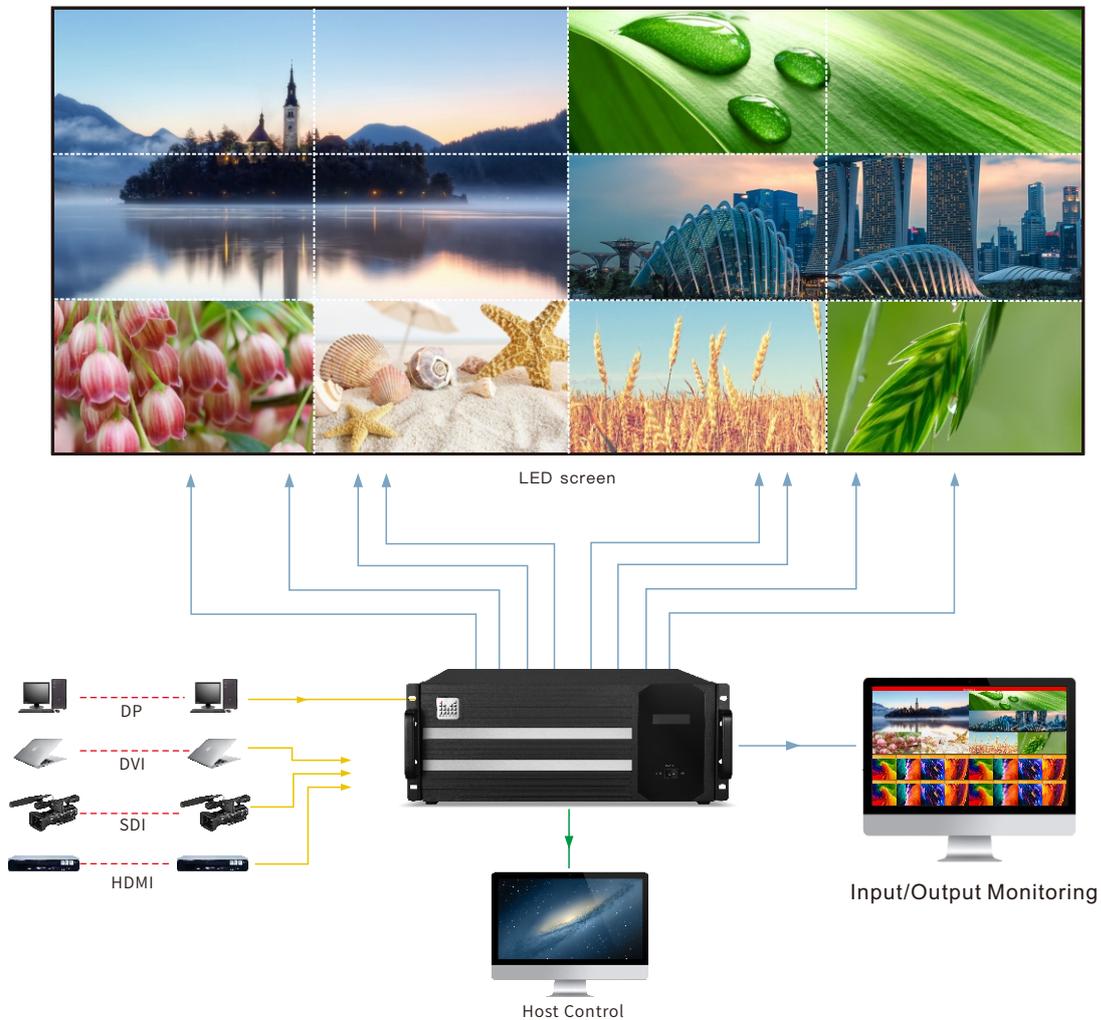


Display

▮ Various Inputs and Outputs

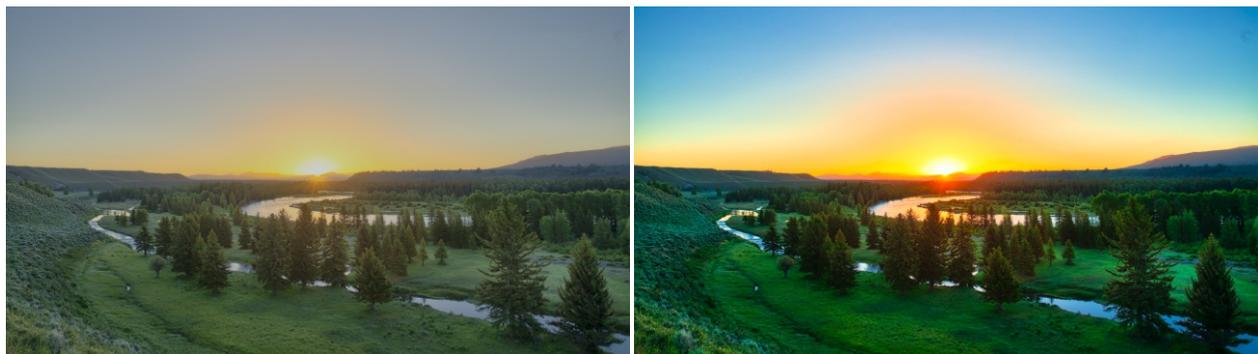
▮ Ultra-Maximum Resolution Splicing

The output of the controller is connected to multiple sending cards, which, together with the customizable output resolution function, enables the splicing of ultra-high-resolution LED displays. The 4U chassis splicer supports up to 8 splices per unit, and the 8U chassis splicer supports up to 16 splices per unit, and the output frames are not degraded or torn, so it is easy to realize high-resolution and point-to-point display.



▮ HDR10/HLG

Extend the brightness range, advanced processing for sup-dark and sup-light area. Abundant image color be showed, soft and smooth display.



HDR Closed

HDR Open

Technical parameters

Specification	
Chassis	4U
Input Slots	4
Output Slots	3
Electrical Parameters	110-240V/50/60HZ
Operating Conditions	0~45°C
Net Weight (chassis)(KG) Dimension(mm)	16.9KG/ 482.6*470.5*177mm

Inputs			
Types	Port	Quantity	Resolution Spec
DP	DP1.2	4	3840x2160/60Hz, 7680x1080/60Hz and customized resolution
HDMI	HDMI2.0	4	3840x2160/60Hz and user-defined resolutions
HDMI	HDMI1.3	4	1920x1080/60Hz and user-defined resolutions; when using No.1 input (another 3 inputs are not available), input 1 supports HDMI 2.0
SDI	12G SDI	4	Downward compatibility, support de-interlacing
HDMI&SDI	HDMI2.0&12GSDI	2&2	HDMI2.0.12G SDI
DVI	DVI-D	4	1920x1080/60Hz and user-defined resolutions

Outputs				
Types	MIG-DN9404-A	MIG-DN9404-B	Port	Resolution Spec
HDMI	4	2	HDMI2.0	3840x2160/60Hz, 7680x1080/60Hz and customized resolution
Monitoring&Preview	1+3+1	1+3+1	HDMI+RJ45	1*monitoring interface fixed to 1920x1080/60Hz 3*AUX similar to the above HDMI 2.0 specification, support customization 1*RJ 45 preview for visualization control in the upper computer software



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