

Video Wall Controller

DMC8000



Key Features

- The image acquisition and display card adopts full hardware FPGA architecture, and adopts self-developed core image processing strategy, which has excellent processing performance. The main control system uses embedded Linux operating system to support stable operation for 7 x 24 hours.
- Plug-in box design, input card, output card, switch card, main control card, fan frame, power supply and other modules are all plug-in card design.
- The advanced PCIE switching chip in the industry. Adopts PCIE bus to realize high-speed data transmission technology of full switching dispatching architecture. Each signal has its own dedicated channel for transmission, which ensures the complete real-time display of all signal images. At the same time, arbitrary mixing of input and output cards is realized.
- Resolution Real-time Total Adaptation technology, That is to say, a single device can support multiple TV walls with different resolutions, dividing all output channels into four groups of different TV walls, and each TV wall can customize different output resolutions.
- It supports window opening, screen splitting, roaming and zooming operations at any position on the TV wall. There is no boundary restriction on the area of the screen display. Through the unique video processing algorithm, the picture quality is guaranteed not to be lost in the zooming process.
- Supporting the "Picture in Picture" function, other video pictures can be superimposed at any position of the existing pictures on the TV wall, making the layout more flexible and free.
- Support to save the TV wall business layout as a scene, easy to access at any time, up to 64 scenes can be saved, and support inter-scene rotation.
- Hot-swap fan frame design, realize intelligent temperature control of equipment fan, distribute according to need, control system heat dissipation and noise at ideal level.
- Intelligent monitoring of power supply and temperature is realized. When power supply and temperature abnormalities

occur in single-point card, single-point control switch is realized to ensure the normal operation of the equipment.

- It has a variety of equipment models and optional chassis sizes. Each model has different maximum input and output channels to adapt to different sizes of the system scale.
- The system automatically identifies the type of card and its in-place state, temperature, running time, memory usage and CPU usage
- Supporting Fine Pixel LED display
- There are abundant video signal input interfaces: HDMI, DVI, VGA
- Support DVI signal output.

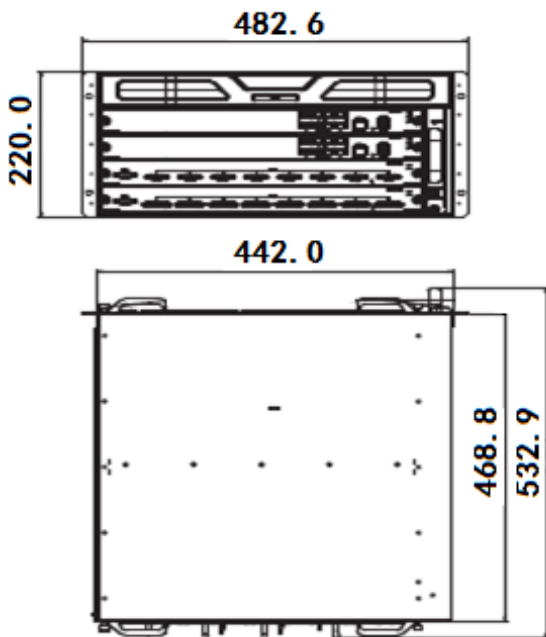
Specifications

	IV-DMC8000-3U	IV-DMC8000-5U
Chassis		
Dimensions (WxDxH) (mm)	442×468.8×132.0	442×468.8×220.0
Weight (kg)	4	5
Consumption (w)	<300	<650
Host power consumption (w)	<60	<60
Support slot	4	6
Master control interface	1 GE, 4 RS-232, 4 RS-485, 2 USB3.0, 1 Reset	
Power Supply	100V~240V AC; 50Hz/60Hz	
Working Temperature	0°C—50°C	
Video input		
HDMI, DVI and VGA input	XGA:1024×768@60HZ 720P:1280×720@60HZ SXGA:1280×1024@60HZ 1080P:1920×1080@60HZ UXGA:1600×1200@60HZ 1680×1050@60HZ	
Video output		
DVI output	XGA:1024×768@60HZ 720P:1280×720@60HZ SXGA:1280×1024@60HZ UXGA:1600×1200@60HZ WXGA+:1440×900@60HZ 1080P:1920×1080@60HZ WUXGA:1920×1200@60HZ	
Screen control		
Window wandering	Video signal single screen can open 31 windows, and can roam anywhere.	
One button layout	One-click TV wall with M×N window layout or fixed layout	

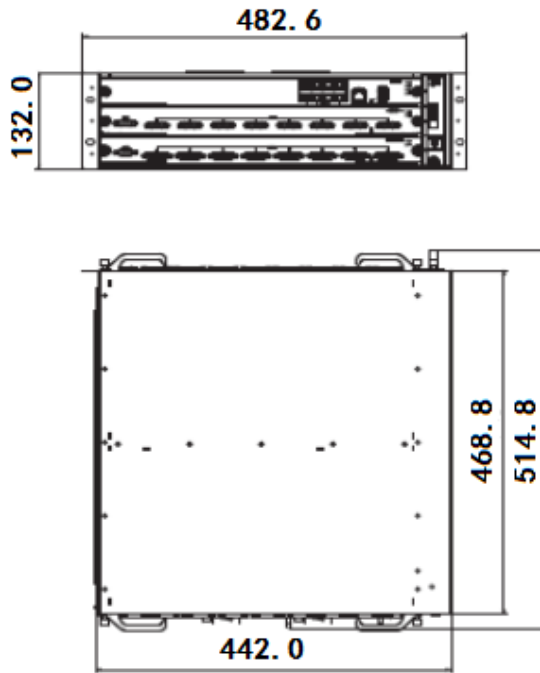
Display split	Single screen support 1/2/3/4/5/6/7/8/9/10/13/16 split screen display
Multiple TV Walls	Single equipment can build and manage four TV walls with different configurations
Scenario management	64 scenarios can be saved

Dimensions

IV-DMC8000-5U



IV-DMC8000-3U



Rear Panel



1: LCD Display Screen

2: Fan module

3: Fan indicator	4: Main control panel
5: Reserved card space	6: VGA input card
7: DVI input card	



1: Power	2: Power Indicator
3: Power interface	4: Card slot
5: HDMI input card	6: DVI input card
7: DVI output card	