

# DMC9000-3U Video Wall Controller



## Key Features

- FPGA architecture and Uniview’s core image processing strategy provide excellent image processing performance. Embedded Linux OS ensures 24/7 stable operation and protects the device from hackers and viruses.
- Plug-in design for boards provides flexible board application and makes the upgrade, expansion and maintenance of the system easier.
- Advanced PCIe switching chip in the industry. Each signal has a dedicated transmission channel, which ensures the real-time display of images of all signals. And a service board can be inserted into any service board slot, which allows users to apply boards flexibly.
- Resolution Real-time Total Adaptation technology. Each device supports sixteen video walls with different resolutions, and the resolution can be customized.
- Supports window opening, roaming and zooming at any position on the video wall. The unique video processing algorithm ensures that the image quality is not affected during zooming.
- Supports “Picture-in-Picture” mode, which allows users to watch videos on top of other windows, presenting flexible layouts.
- Supports saving the video wall layout as a scene, so that the layout can be used at any time later. Up to 64 scenes can be saved. Supports scene sequence.
- Intelligent temperature control design of fans keeps the heat dissipation and noise at an ideal level, and ensures the noise is no more than 30 dBA in conference rooms.
- Intelligently monitors board power supply and board temperature. When abnormal board power supply or temperature is detected, the board will automatically shut down to safeguard device operation.
- Supports custom EDID, allowing users to customize the resolution of input video sources.
- Supports small pixel pitch LED displays.
- Supports connecting up to 5 board enclosures.
- Support virtual LED

## Specifications

### Chassis Specifications

Module	Parameter
<b>Chassis</b>	
Dimensions (W*H*D)(mm)	Dimensions:447*471*132 Package Dimensions:630*630*232
Weight (Kg)	Net Weight:14.1 Gross Weight:14.4
Full-loaded Consumption (W)	<350
Service Board Slots	10
Mixed Insertion	Support
Control Board Interface	1*network interface,1*Console serial interface,3*RS232/RS485 serial interface,2*USB interface,1*RST key,1*SWAP Hot-swappable key
Operation Voltage	100V~ 240V AC; 50Hz/60Hz
Operation Temperature	0°C~ +50°C
Operation Humidity	0%~ 90% (No condensation)
Storage Temperature	-40°C~+70°C
Storage Humidity	0%~ 95% (No condensation)
<b>Board Type</b>	
Signal Input	HDMI*4, HDMI*8, HDMI*2 (4K) ,DVI-D*4
Signal Output	HDMI*4, HDMI*8, HDMI*2 (4K) ,DVI-D*4
<b>Screen Control</b>	
Number of Windows	Each output interface can open 8 windows on average. The window opening resources of all output interfaces can be shared. Up to 32 windows are allowed for each output interface.
Roam and Overlay	The windows can roam at any position on the video wall. Supports window overlay. Supports picture-in-picture mode.
One-click Layout	One-click to create a video wall with an M * N layout or fixed layout.
Multiple Video Walls	Each device can create and manage four video walls with different configurations.
Scene Management	Up to 64 scenes can be saved.

Advanced	
Signal Delay	<100ms
Output Sync	Fully synchronized
Power Failure Protection	When the device is accidentally powered off, the current running services and layout will be retained and restored after restart.
Seamless Switching	Support
Cascade	Supports connecting up to 5 board enclosures.
Virtual LED	16 (static)

## Board Module Specifications

Model	FB-SC90-04HI-E-NB		
Name	4-Port Video Wall Controller HDMI Video Input Board Module		
Dimensions (W*H*D)(mm)	Package Dimension:215*50*270		
Weight (Kg)	Gross Weight:0.53		
Input Resolution	XGA:1024*768@60Hz	720P:1280*720@50Hz	720P:1280*720@60Hz
	SXGA:1280*1024@60Hz	WXGA+:1440*900@60Hz	
	UXGA:1600*1200@60Hz	1080P:1920*1080@50Hz	1080P:1920*1080@60Hz
	WUXGA:1920*1200@60Hz		
Customized Resolution	Maximum width 2048,maximum height 4032		
Full-loaded Consumption (W)	<6		



Model	FB-SC90-08HI-E		
Name	8-Port Video Wall Controller HDMI Video Input Board Module		
Dimensions (W*H*D)(mm)	Package Dimension:215*50*270		
Weight (Kg)	Gross Weight:0.58		
Input Resolution	XGA:1024*768@60Hz	720P:1280*720@50Hz	720P:1280*720@60Hz
	SXGA:1280*1024@60Hz	WXGA+:1440*900@60Hz	
	UXGA:1600*1200@60Hz	1080P:1920*1080@50Hz	1080P:1920*1080@60Hz
	WUXGA:1920*1200@60Hz		
Customized Resolution	Maximum width 2048,maximum height 4032		

Full-loaded Consumption (W)	<15
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<b>Model</b>	<b>FB-SC90-02UH-E-NB</b>		
<b>Name</b>	2-Port Video Wall Controller HDMI-4K Video Input Board Module		
<b>Dimensions (W*H*D)(mm)</b>	Package Dimension:215* 50*270		
<b>Weight (Kg)</b>	Gross Weight:0.56		
<b>Input Resolution</b>	XGA:1024*768@60Hz	720P:1280*720@50Hz	720P:1280*720@60Hz
	SXGA:1280*1024@60Hz	WXGA+:1440*900@60Hz	
	UXGA:1600*1200@60Hz	1080P:1920*1080@50Hz	1080P:1920*1080@60Hz
	WUXGA:1920*1200@60Hz		
	4K: 3840*2160@30Hz		
<b>Customized Resolution</b>	Maximum width 4096,maximum height 4032		
<b>Full-loaded Consumption (W)</b>	<15		



<b>Model</b>	<b>FB-SC90-04DI-E-NB</b>		
<b>Name</b>	4-Port Video Wall Controller DVI Video Input Board Module		
<b>Dimensions (W*H*D)(mm)</b>	Package Dimension:215*50*270		
<b>Weight (Kg)</b>	Gross Weight:0.56		
<b>Input Resolution</b>	XGA:1024*768@60Hz	720P:1280*720@50Hz	720P:1280*720@60Hz
	SXGA:1280*1024@60Hz	WXGA+:1440*900@60Hz	
	UXGA:1600*1200@60Hz	1080P:1920*1080@50Hz	1080P:1920*1080@60Hz
	WUXGA:1920*1200@60Hz		
<b>Customized Resolution</b>	Maximum width 2048,maximum height 4032		
<b>Full-loaded Consumption (W)</b>	<6		



Model	FB-SC90-04HI-X-NB
Name	4-Port Video Wall Controller HDMI Video Output Board Module
Dimensions (W*H*D)(mm)	Package Dimension:215*50*270
Weight (Kg)	Gross Weight:0.54
Input Resolution	XGA:1024*768@60Hz      720P:1280*720@50Hz      720P:1280*720@60Hz SXGA:1280*1024@60Hz      WXGA+:1440*900@60Hz UXGA:1600*1200@60Hz      1080P:1920*1080@50Hz      1080P:1920*1080@60Hz WUXGA:1920*1200@60Hz
Customized Resolution	Maximum width 2048,maximum height 2048
Full-loaded Consumption (W)	<8



Model	FB-SC90-08HI-X-NB
Name	8-Port Video Wall Controller HDMI Video Output Board Module
Dimensions (W*H*D)(mm)	Package Dimension:215*50*270
Weight (Kg)	Gross Weight:0.57
Input Resolution	XGA:1024*768@60Hz      720P:1280*720@50Hz      720P:1280*720@60Hz SXGA:1280*1024@60Hz      WXGA+:1440*900@60Hz UXGA:1600*1200@60Hz      1080P:1920*1080@50Hz      1080P:1920*1080@60Hz WUXGA:1920*1200@60Hz
Customized Resolution	Maximum width 2048,maximum height 2048
Full-loaded Consumption (W)	<15



Model	FB-SC90-02UH-X-NB
Name	2-Port Video Wall Controller HDMI-4K Video Output Board Module
Dimensions (W*H*D)(mm)	Package Dimension:215*50*270
Weight (Kg)	Gross Weight:0.57
Input Resolution	XGA:1024*768@60Hz      720P:1280*720@50Hz      720P:1280*720@60Hz

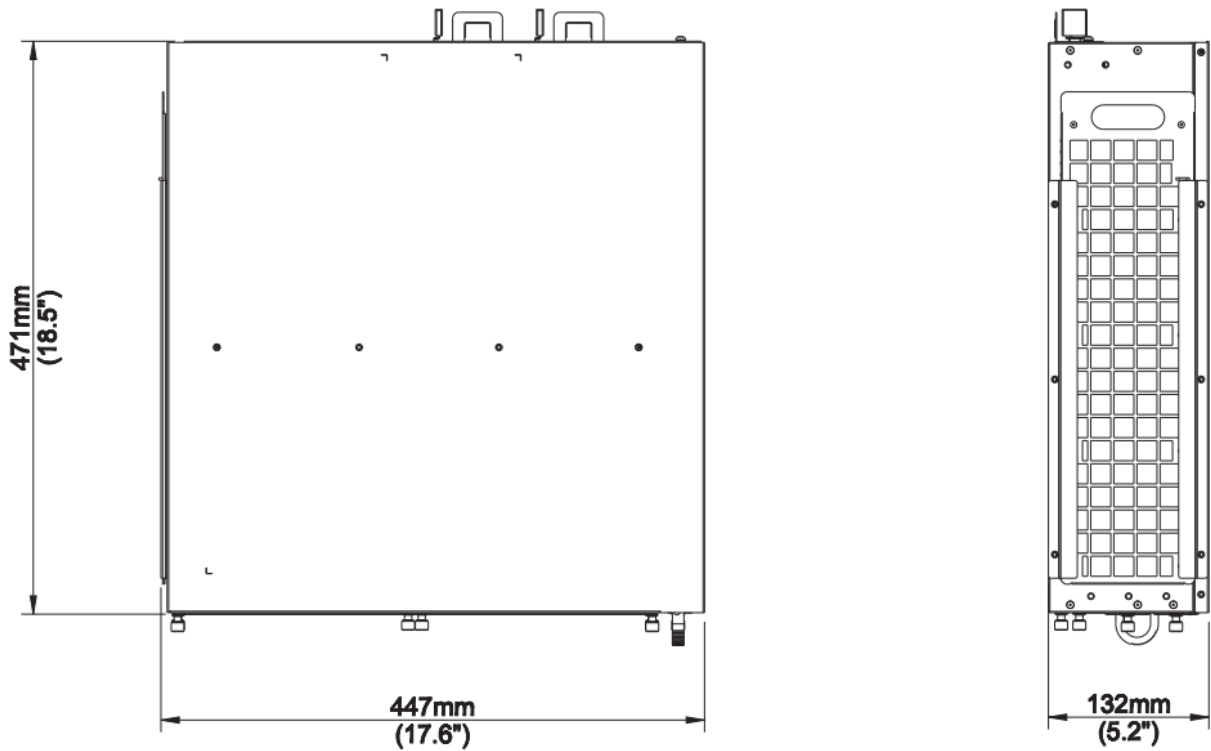
	SXGA:1280*1024@60Hz      WXGA+:1440*900@60Hz UXGA:1600*1200@60Hz      1080P:1920*1080@50Hz      1080P:1920*1080@60Hz WUXGA:1920*1200@60Hz 4K: 3840*2160@30Hz
Full-loaded Consumption (W)	<15



Model	FB-SC90-04DI-X-NB
Name	4-Port Video Wall Controller DVI Video Output Board Module
Dimensions (W*H*D)(mm)	Package Dimension:215*50*270
Weight (Kg)	Gross Weight:0.56
Input Resolution	XGA:1024*768@60Hz      720P:1280*720@50Hz      720P:1280*720@60Hz SXGA:1280*1024@60Hz      WXGA+:1440*900@60Hz UXGA:1600*1200@60Hz      1080P:1920*1080@50Hz      1080P:1920*1080@60Hz WUXGA:1920*1200@60Hz
Customized Resolution	Maximum width 2048,maximum height 2048
Full-loaded Consumption (W)	<8

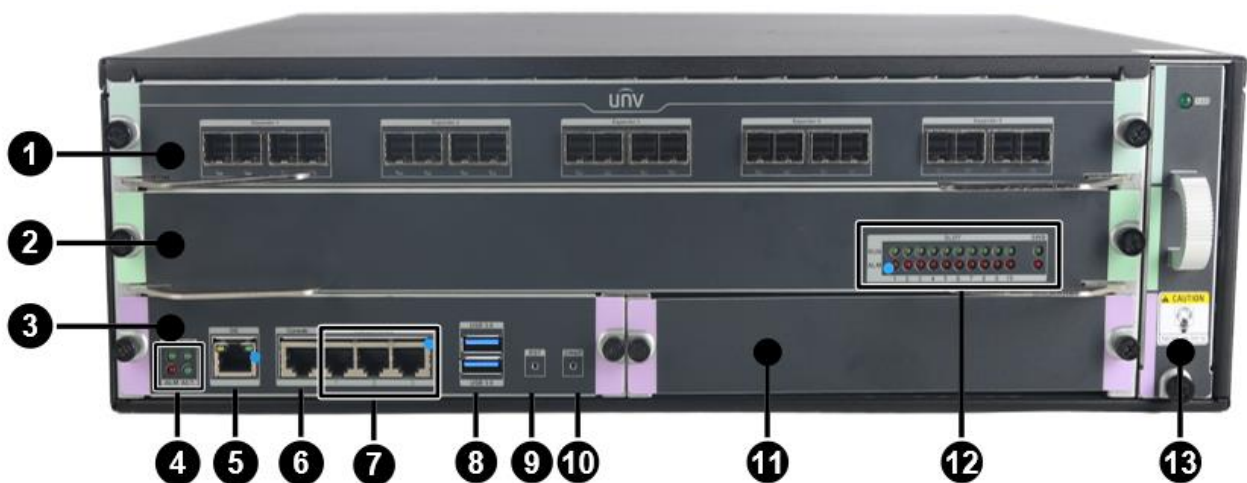


## Dimensions



## Interfaces

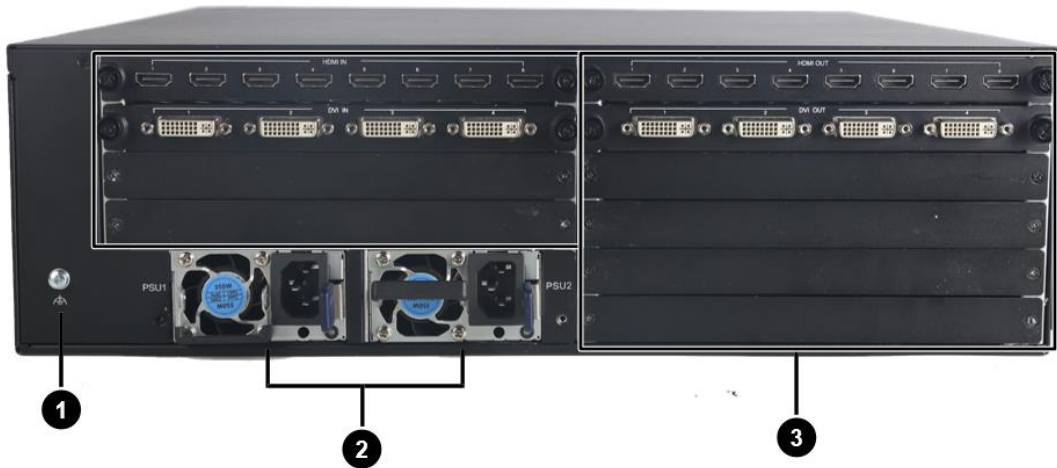
### Controller Front View



1: Cascade board (fixed slot, no mixed insertion)	2: Switch board (fixed slot, no mixed insertion)
3: Control board	4: Status indicator (RUN, ALM, PWR, ACT)
5: Network interface, 10M/100M/1000M Base-T adaptive Ethernet interface	6: Serial interface
7: RS232/RS485	8: USB 3.0 interface
9: RST key:	10: SWAP key:

Press this key to reset the system. Press and hold this key for more than 5 seconds to restore the factory settings.	Press this key to switch the active control board to a standby control board.
11: Redundant control board slot (only one control board is allowed for each controller)	12: Switch board/Service board status indicator
13: Fan	

## Controller/Board Enclosure Rear View



1: Grounding terminal	2: Power
3: Service board slot (10 slots, supports mixed insertion)	

## Board Enclosure Front View



1: Switch board (fixed slot, no mixed insertion)	2: Cascade interface
3: Switch board/Service board status indicator	4: Fan



## Order Information

Model	Remarks
DMC9000-3U	Chassis (10*service board slot, 2*control board slot, 1*power supply, 1* fan, 1*Control board,1* Switch board included)
FB-SC90-M	Control board (optional for backup of dual control board)
FB-SC90-MCU	Cascade board (optional)
FB-SC90-3U	Board enclosure (10*service board slot, 1* Switch board of board enclosure) (optional)
PWR-AC1229A-VC	Power module (350W) (optional)
HB-SC-3U-LMF	Cable management bracket (optional)
FB-SC90-04HI-E-NB	4-Port Video Wall Controller HDMI Video Input Board Module
FB-SC90-08HI-E-NB	8-Port Video Wall Controller HDMI Video Input Board Module
FB-SC90-02UH-E-NB	2-Port Video Wall Controller HDMI-4K Video Input Board Module
FB-SC90-04DI-E-NB	4-Port Video Wall Controller DVI Video Input Board Module
FB-SC90-04HI-X-NB	4-Port Video Wall Controller HDMI Video Output Board Module
FB-SC90-08HI-X-NB	8-Port Video Wall Controller HDMI Video Output Board Module
FB-SC90-02UH-X-NB	2-Port Video Wall Controller HDMI-4K Video Output Board Module
FB-SC90-04DI-X-NB	4-Port Video Wall Controller DVI Video Output Board Module

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\* Product specifications and availability are subject to change without notice.