

# Video Wall Controller

## DMC9000-2U-V3



### 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 four 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 small pixel pitch LED displays.

### Specifications

Module	DMC9000-2U-V3
Chassis	
Dimensions(W*H*D)(mm)	442.00*352.00*88.30
Weight (Kg)	7.3
Full-loaded Consumption (W)	<100
Host Consumption (W)	<20
Service Board Slots	4
Mixed Insertion	Support
Control Board Interface	2 * HDMI input interface、 1 * HDMI output interface (reserved)、 1 * 3.5mm audio input interface (reserved)、 1 * 3.5mm audio output interface (reserved)、 1 * USB 2.0 interface、 1 * USB 3.0

	interface、 1 * RS232 interface、 1 * RS458 interface、 1 * Gigabit Ethernet port、 1 * power interface、 1 * RST key
Operation Voltage	100V~240V AC; 50Hz/60Hz
Operation Temperature	0°C~+50°C
Operation Humidity	0%~95% (No condensation)
Storage Temperature	-40°C~+70°C
Storage Humidity	0%~95% (No condensation)
<b>Board Type</b>	
Signal Input	4*HDMI、 8*HDMI、 4*DVI-D、 2*HDMI (4K)
Signal Output	4*HDMI、 8*HDMI、 4*DVI-D
<b>Screen Control</b>	
Window Opening and Roaming	Up to 32 windows are allowed for each video signal interface. The windows can roam at any position on the video wall.
Number of Windows	Up to 32 windows are allowed for each video signal interface. The window opening resources of all signal interfaces can be shared. The windows can roam at any position on the video wall.
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.
<b>Advanced</b>	
Signal Delay	<105ms
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

## Board Module Specifications

<b>Model</b>	FB-SC90-04HI-E-NB		
<b>Name</b>	4-Port Video Wall Controller HDMI Video Input Board Module		
<b>Dimensions (W*H*D)(mm)</b>	Package Dimension:215 * 50 * 270		
<b>Weight (Kg)</b>	Gross Weight:0.53		
<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-SC90-08HI-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 SXGA:1280*1024@60HZ UXGA:1600*1200@60HZ WUXGA:1920*1200@60HZ	720P:1280*720@50HZ WXGA+:1440*900@60HZ 1080P:1920*1080@50HZ	720P:1280*720@60HZ 1080P:1920*1080@60HZ
Customized Resolution	Maximum width 2048、maximum height 4032		
Full-loaded Consumption (W)	<15		



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



Model	FB-SC90-04DI-E-NB		
Name	4-Port Video Wall Controller DVI Video Input 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 4032
Full-loaded Consumption (W)	<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

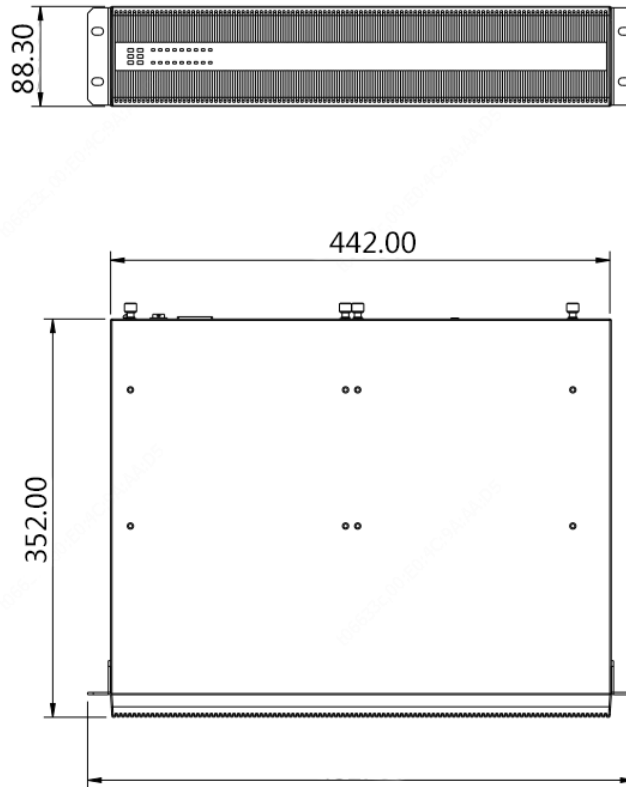
Customized Resolution	Maximum width 2048、maximum height 2048
Full-loaded Consumption (W)	<15



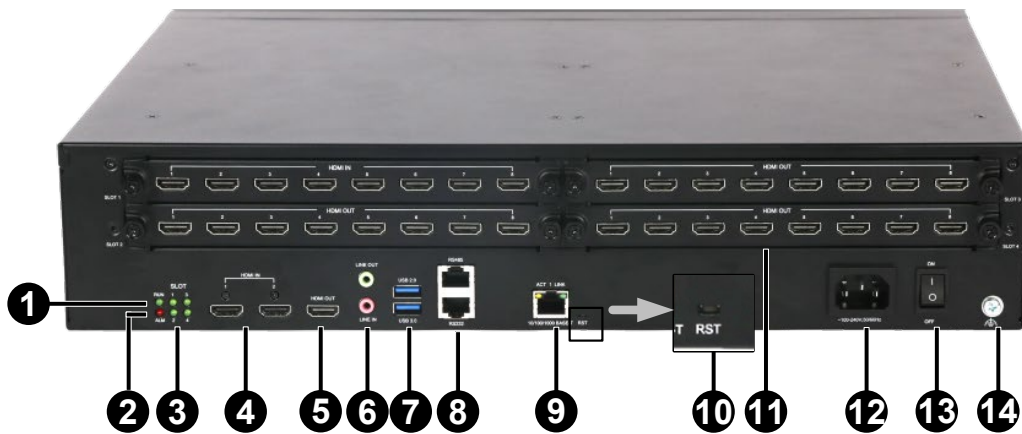
Model	FB-SC90-04DI-X-NB		
Name	4-Port Video Wall Controller DVI Video Output Board Module		
Dimensions (W*H*D)(mm)	Package Dimension:215 * 50 * 270		
Weight (Kg)	Gross Weight:0.56		
Input Resolution	XGA:1024*768@60HZ SXGA:1280*1024@60HZ UXGA:1600*1200@60HZ WUXGA:1920*1200@60HZ	720P:1280*720@50HZ WXGA+:1440*900@60HZ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



## Dimensions



## Rear Panel



1: RUN indicator	2: ALM indicator
3: Board status indicator	4: HDMI input interface
5: HDMI output interface (reserved)	6: Audio input/output interface (reserved)
7: USB interface	8: Serial interface
9: Network interface	10: Reset key
11: Service board slot	12: Power interface
13: Power on/off switch	14: Grounding terminal

## Order Information

Model	Remarks
DMC9000-2U-V3	Chassis、 2U height、 4 service board slots、 including power supply、 control board and fan
FB-SC90-04HI-E-NB	4-ch HDMI input、 Max. resolution: WUXGA (1920*1200) @60Hz
FB-SC90-08HI-E-NB	8-ch HDMI input、 Max. resolution: WUXGA (1920*1200) @60 Hz
FB-SC90-04DI-E-NB	4-ch DVI-D input、 Max. resolution: WUXGA (1920*1200) @60 Hz
FB-SC90-02UH-E-NB	2-ch HDMI input、 Max. resolution: 4K (3840*2160) @30 Hz
FB-SC90-04HI-X-NB	4-ch HDMI output、 Max. resolution: WUXGA (1920*1200) @60 Hz
FB-SC90-08HI-X-NB	8-ch HDMI output、 Max. resolution: WUXGA (1920*1200) @60 Hz
FB-SC90-04DI-X-NB	4-ch DVI-D output、 Max. resolution: WUXGA (1920*1200) @60 Hz

### Zhejiang Uniview Technologies Co., Ltd.

Building No.10, Wanlun Science Park, Jiangling Road 88, Binjiang District, Hangzhou, Zhejiang, China

Email: [overseasbusiness@uniview.com](mailto:overseasbusiness@uniview.com); [globalsupport@uniview.com](mailto:globalsupport@uniview.com)

<http://www.uniview.com>

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