

AMC4 SERIES

AMC4 Series -VIDEO WALL CONTROLLER with SEAMLESS QUATRO VISION

VER 1.B



OVERVIEW

AMC4 is a high performance seamless matrix controller unit, including video wall features.

With advanced modular design, it provides flexible configuration options to meet various applications. The modular matrix integrates the functions of video wall display, multi-view and OSD control status.

It can be used in the conference room, radio & television, or smart control room projects and command control center.



SYSTEM DIGRAM





Front and Rear Panels

Front Panel



2U Chassis front panel

- 1. LCD display shows operation status.
- 2. Indicators of device working status

Power: When the light is on, it means the device is powered on.When the light is off, the device is powered off.Run: The Run indicator flash indicating the device is working normally.IR: The device supports infrared remote control.

- Number push buttons for inputs and outputs switching The first row number push buttons for input signals selection The second row number push buttons for output signal selection
- 4. Function push buttons for system management

Menu: Menu function selection. The user can the set baud rate, buzzer, IP address and other settings with the coordination of the menu and 1st row numbers button.

Recall: Recall of the saved scene

Save: Save current scene

Lock: Lock or unlock operation. Long-pressed 5 seconds to lock and the button lights

will be on. Long-pressed 5 seconds again to unlock and the button lights will be off.

Enter: Confirm execution button, to work with other function buttons.

Cancel: Cancel the previous operation and return to main menu.

&: Output multiple-selection coordination button.For example, switching input 1 to

output 3, 4, 8, press the number 1 button in the first row and then the number 3 + & +

4 + & + 8 + Enter in the second row.

←: When switching multiple outputs at the same time, the user can cancel the wrong output selection in the previous step and re-select the correct output.



Real Panel



2U Chassis front panel for example

Control Software Operation

Double click the file	VMC_V1.5_EN	to rur	n the so	oftware.	×
		٨	/ideo Wa	II Matrix	
		User Name:	admin	▼	
		Password: Device:		Setti	ng
		Conr	nect	Demo	

User name: admin

Password: admin

Admin privileges can control all software functions and can establish different user mode.

The setting menu provides access to the connection as below.

Connection



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As shown above, the user can choose LAN or COM connection to enter the software main interface. Pls pay attention to the COM port number selection or the network card selection of the control computer. Once selected the control method, clicking **OK** menu button and then **Connect** menu to enter the main interface as shown below.



COM: Selects serial port connection to synchronize device information

LAN: Selects network connection to synchronize device information

Disconnect: Disconnect from the device

Connect: Set COM port, IP address etc..

Connect		2				
C	MO:		Ψ.	IP Adress:	192.168.3 .100	
Baud F	Rate:	115200	Ψ.	IP Port	50080	<u>.</u>
Interval(ms): Delay(ms):		1	ż	Interval(ms):	1	<u>÷</u>
		300 1		Delay(ms):	1	+
		Setu	p		Setu	
NetCard W	LAN	192 168 2 2001	T Mc	dify		
	100010-0	a construction of the second second		COMPLETE STATE		
IP Adress:	192	168.3 .100	Modity	Gateway 192.1	68.3 .1	Modify
IP Adress: BubnetMask:	192	168.3 .100 255.255.0	Modify	Gateway 192.1	68.3 .1 to IP	Modify
IP Adress: JubnetMask: Baud Rate:	192 255 115	168.3 .100 255.255.0 200 *	Modify Modify Modify	Gateway 192.1	68.3 .1 to IP ed IP	Modify
IP Adress: SubnetMasic Baud Rate: Controller in 1	192 255 115 the si	168.3 .100 255.255.0 200 •	Modify Modify Modify	Gateway 192.1 Au	68.3 .1 to IP ed IP	Modity
IP Adress: BubnetMask: Baud Rate: Controller in f	192 255 115 the st	168.3 .100 255.255.0 200 * Ime LAN	Modify Modify Modify	Gateway 192.1	68.3 1 to IP od IP	Modify
IP Adress: BubnetMask: Baud Rate: Controller in 1 Search	192 255 115	168.3 ,100 255.255.0 200 •	Módity Modity Modity	Gateway 192.1	68.3 .1 to IP od IP	Modity
IP Adress: BubnetMask: Baud Rate: Controller in 1 Search	192 255 115 the st	168.3 .100 255.255.0 200 ~	Modify Modify Modify	Gateway 192.1 Au Fix	68.3 .1 Ho IP ed IP	Modity

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Mode save: Save different display scene.

Index: 1		
Name: Sce	ene_1	
Confirm	Cancel	

Mode cycle: Recall saved scene modes in a loop.

Wall No: Vi	deoWall-1-1 v		Current Mode:	
Scene_1	1	Add>>	Scene_1	5
Scene_2	2	Delete	Scene_2	5
Scene_3	3	Delete	Scene_3	5
Scene_4	4		Scene_4	5
Scene_5	5		Scene_5	5
		Interval(s):		

Channel: Recall input and output channel cycle switching.

Check	Index	Name	Delay	Select	
	10090.00			All	Inverse Clear
				Cycle	
				Start	Stop
					- Handes
				-Name/Delay-	
				Name:	
				delay: 1	
					NameDatas
					Hamerberay



Configuration

This settings are done before it leaves the factory. Non-professionals are strictly prohibited to set it.

Output setting

Software				×
🗎 Output 🕮 Input	≝ I/O 🕅 🕅 Wiser			
VideoWall-1				Machine Buzzer: Buzzer On Buzzer Off Function Config
1	2	3	4	Edge Shielding Splice Config Window Setting Row: 2 Column: 4 Software Tpye: @ Matrix @ Video Wall Preview
5	6	7	8	Setting
				Save

Buzzer: Choose on or off. Buzzer indicates the sound of software operation or key operation. **Edge Shielding:** Set the edge shielding in horizontal and vertical.

Edge shielding	×
Horizontal: 0	
Vertical: 0	
Co	nfirm
Open	Close

Window Setting: This function can be used to modify the output port name.

Vin Name:	Output 1	Setting
State:	Show/Hide	Setting

Output configuration: The output ports number can be increased or decreased by modifying the rows and columns of the video wall.

Software type: Choose Matrix





Input configuration

Set the input numbers and card specification as below.

Index	Name	Channel	BoardID	MachinelD	Туре	Source	State	Splice Wall	
1	Channel 1	1	0	1	MIN	HDMI	True	VideoWall-1	
2	Channel 2	2	1	1	MIN	HDMI	True	Signal	
3	Channel 3	3	2	1	MIN	HDMI	True	Input Num:	8
4	Channel 4	4	3	1	MIN	HDMI	True	Group:	1
5	Channel 5	5	4	1	SDI	SDI	True		Setting
6	Channel 6	6	5	1	SDI	SDI	True	-Basic parame	ter
7	Channel 7	7	6	1	SDI	SDI	True	Name:	Channel 5
8	Channel 8	8	7	1	SDI	SDI	True	Channel:	5
								Machine ID: Boary Type: Source Type: State:	1 SDI SDI
								Confirm	Car

I/O configuration

Used by administrators or engineers to configure main board type and input&output ports. Please not to be operated by non-specialists.

ware					
🗟 Output 📔 🗐	Input 🗧 I/O	유 User			
No.1 No.2 0 0 1 4K: 1 4K: 1	No.3 No.4 © © © © © © 2 3 4K: ■ 4K: ■	No.5 No.6 No.6 No.6 No.6 0 0 0 0 0 0 0 0 0 0 0 0 0	No.7 No.8 No.8 No.8 No.8 O O O O O O O O O O O O O		Back Board: 8x8 sigle-interpolation matrix_2 =
No.9 No.10 No.10 No.10 9 4K: 1 4K: 1	No.11 No.12 No.12 No.12 No.12 No.12 No.12 11 4K:	No.13 No.14 No.14 No.14 No.14 No.14 No.14 No.14 No.14 No.14 No.14 No.14 No.14 No.14 No.14	No.15 No.16 No.16 No.16 No.16 No.16 No.16 AK:		Output Card 8
					-
					-
					Save



User management

The administrator can add different user login names according to the actual situation and give them different operation permissions for hierarchical management.

Software			<mark>د</mark>
End Dutput End Input S I/O	R User		
Imput ■ Input ■ WO ✓ admin user	24 User Login User: admin Current User Permission Assignment License File Input Preview SoB Channel Manage Splice Wall; VideoWall-1 Scene Load Window Splice	About Output Camera Scene Cycle Scene Save Window Split	User Manage UO Edge Shielding Setting Scene Delete Signal Switching
Add User Defete User	Change Passwork	New Password:	Confirm Password: Confirm

Input setting

All input sources are put in the left side of the software interface. Right-click the corresponding input source to pop up the following interface:

Input	Scene
Sy	stem Channel
Y DVI	
🚥 Cha	nnel 5
💷 Cha	nnel 6
m Cha	nnel 7
📖 Cha	nnel 8
V HDMI	
Cha	nnel One To All
📟 Cha	nnel: OSD Mark
📟 Cha	nnel / HDMI Audro
	3.5mm Audio

One To all: One-click to switch the current input source to all outputs

OSD Mark: Text over the input source. The text color and position are adjustable. **HDMI audio:** Set current HDMI board's audio as embedding audio by dial switch. **3.5mm audio:** Set current HDMI board's audio as external 3.5mm by dial switch



Label: MATRIX SWITCHE	2	Setting
Red.		0
Green:		0
Blue:		0
X-Start		0
Y-Start		0

Output port setting

Splice: Select some adjacent screens and right-click the **Splice** menu for video wall display. **Cancel:** Select a video wall display area and right-click the menu to back to single display.



Source: Set current input signal type.

No.1		No.2	
Channel 1		Channel 1	
	Source	CVBS	
	Resolution	▶ VGA	
	Parameter Fine-tuning	✓ DVI	
	Full View	HDMI_M	
	Quad View	HDMI	
		YPbPr	
		SDI	
		HDBaseT	Output 2
No.3		Fiber	
Channel 1		4KHDMI 1	
		HDBase-poc	
		Output 3	Output 4

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Resolution

Set current input signal resolution

No.1	a degree on a second	1.11	120	N0.2	120
Channel 1	Resolution	•	1920x1080	Channel 1	
	Parameter Fine-tuning		1280x720		
	Full View		1024x708		
	Quad view	-	12808800		
			1280x1024		
			1366x768		
			1400x1050		
			1600x1200		
			1920x1200		Output 2
No.3			640x480	No.4	170
Channel 1			800x600	Channel 1	
			Output 3		Output 4

Parameter Fine-tuning

Fine-tuning for brightness, contract and saturation etc..

BrightB R:	50
BrightB G:	50
BrightB B:	50
DarkB R:	50
DarkB G:	50
DarkB B:	50
rightness:	50
Contrast.	50
Saturation:	50

Full View

Set the display in 1 full image mode.

Quad View

Set the display in 4 quad-view mode.