

ANGUSTOS VIDEO WALL CONTROLLER



2022

AMVC / AMC MATRIX & VIDEO WALL CONTROLLER USER MANUAL



About ANGUSTOS

computer signals.

Angustos was founded in 2000 and is now regarded as of digital and analogue ky M solutions.

fortune 500 corporations.

use.

For more than 20 years our customers have been convinced by our co standardised distributing standardised

We are confirmed to established international standards. We can provide ustomers with complete data center solutions as well as OEM/ODM

We are confirmed to established international standards. We can provi out on the complete data center solutions as well as OEN/ODN for IBM. Guntermann & ustomers with complete data center solution for IBM. Guntermann & services. Our products are approved vendor for IBM.

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We can cover even from medium to small business, factory and industrial person operations, military and government installations, home office and person We can cover even from medium to small business, factory and industrial personal office and personal statistications, home office and personal and government installations, home office and personal government installations, home office and personal use.









1. Overview

AMC is a powerful seamless modular matrix switcher, which integrates video wall processing and matrix switching in a single high performance chassis. With the advanced modular design, it provides options for various video interface combinations. Which provides a variety of I/O boards, including HDMI, DVI, VGA, SDI, HDBaseT, YPbPr, HDBaseT, Fiber Optical etc..

It is idea for application of conference room and control room etc.



2. System Diagram

3. Front and Rear Panels

3.1 Front Panel



2U Chassis front panel

- 1. LCD display shows operation status.
- 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.

←: 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.

3.2 Real Panel



2U Chassis front panel

4. Control Software Operation

4.1 Control Port Connection

Click the menu **Connect** to pop up a dialog box as follows. The default baud rate is 115200. Select the corresponding COM port and click the button **Connect**.

vetwork con	nection		14		
Device IP:	192.168.	0.2	Se	earch	Connect
Device1					
COM:	v	Baud:	19200	~	Connect
COM:	v	Baud:	19200	¥	Connect

4.2 Input Source 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:



Rename: Set current input source name

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

Subtitles: Text over the input source. The text color and position are adjustable.

Source: Set current input signal interface type

Resolution: Set current input signal resolution

4.3 Output Port Setting

No.1 Input char	nnel-1	No.2 Input channel-1		No.3 Input channel-1		No.4 Input channel-1	
	Video wall Split Rename Output Type						
No.5 Input char	Resolution Parameter tuning nnel-1	input channel-1	Output Address	No.7 Input channel-1	Output Address	No.8 Input channel-1	Output Address
MAXE 3	Output Address	00000.33	Output Address	-	Output Address	10003	Output Address

Video wall: Select some adjacent screens and right-click the menu for video wall display. **Split**: Select a video wall display area and right-click the menu to back to single display. **Rename**: Modify the output name

Output Type: Choose the output port type according to the device configuration. **Resolution:** Set the output resolution

Parameter tuning: Modify the output brightness, contrast, color etc...

4.4 Scene management

				User Name: admin 🔻 — 🗙
xxx company Control Software	Connect Source Scene	Cycle Setting Help	About	
Source Group 1 Goroup				
i Input Source6 Input Source7 Input Source8	No.1 Input channel-1	No.2 Input channel-1	No.3 Input channel-1	No.4 Input channel-1
	Cutput Address	📼 Output Address	😑 Output Address	😑 Output Address
	No.5 Input channel-1	No.6 Input channel-1	No.7 Input channel-1	No.8 Input channel-1
	😅 Output Address	Cutput Address	Cutput Address	Cutput Address

Manage: Manage current saved scenes, such as modify scene name, cycle etc. **Save:** Save current scene

Recall: Recall saved scene

4.5 Scene Cycle



4.6 Software Function Setting

Click the menu **Setting** it o enter the software functions setting. This function requires administrator right.

4.6.1 Connect Setting

Software C	configuration		A ou	tout at	
	Connection Setting Device Name Device 1	COM Name COM 1	Baud Rate 19200	Auto Connect False	Software Connection Connect: ● COM ● LAN LAN Connection ✓ Auto Connect COM COM Numberi1 Setting Device Name: Device1 Name: Device1 Name: Device1 Name: Device1 Value (19200) Auto Connect: ♥ Ves ● No Setting IP Addr: 192.168.0.2 Update MAC Addr: 10,78 CB (F9) 44 E6 Update SubnetMask: 255.255.0 Update SubnetMask: 255.255.0 Update Fixed IP Automatic IP Default

COM: Set current device COM ports numbers.

COM Setting:Set the device name, baud rate and auto connect.

LAN Setting: Set the current IP in fixed or automatic.For the fixed IP, the IP address, MAC address, subnet mask, default gateway, and port number are adjustable.

4.6.2 System Setting

LOGO LOGO Type: Text Imput Output yo Loso LOGO LOGO Type: Text Imput Buzzer Setting Software Buzzer On Buzzer Off Software Type Type: Matrix® Videowall Vachine No: Buzzer Off Eage Shield Width: Imput Imput	utaut 🔊 10 🔲 Hear	
LOGO Buzzer Setting Buzzer Setting Buzzer On Soft Name: Control Software Telephone: 0000-0000000 Ø Setting Buzzer Off Software Type Matrix Videowall Ype: Matrix Videowall Setting Setting Eage Shield Midth: Width: 0		System I mput
LGGO Type: Text Image Company: xxx company Buzzer On Buzzer Off Buzzer Off Setting Software Type Type: Matrix Videowall tachine No: Setting Eage Shield Width: 0 Height 0		OGO Buzzer Setting
Company: ixxx company Buzzer On Buzzer Off Buzzer Off Buzzer Off Setting ioftware Type Type: Matrix® Videowall lachine No: 0 Setting liage Shield Width: 0 Height: 0		JGO Type: ● Text ○ Image
Soft Name: Control Software Buzzer Off Telephone: 0000-0000000 S Setting Software Type Type: O Matrix® Videowall achine No: 0 Setting Setting Setting Height: 0 Height: 0		Company: xxx company B
Telephone: 0000-0000000 2 Setting Setting Setting Setting Setting Setting Setting Setting		oft Name: Control Software B
Setting oftware Type Type: OMatrix ® Videowall achine No: O Setting age Shield Width: O Height: O	and the second se	elephone: 0000-00000000
age Shield Height: 0		Setting
oftware Type OMatrix® Videowall achine No: 0 Setting age Shield Width: 0 Height: 0		
age Shield Width: 0 Height: 0		offunza Turco
achine No: 0Setting age Shield Width: 0Height: 0		Type: O Matrix Videowall
age Shield Width: [0 Height: [0		achine No: 0
age Shield Widh: [0 Height: [0		Setting
age Shield Width: [0 Height: [0		
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age Shield Width: 0 Height: 0		
age Shield Width: [0 Height: [0		
Width: 0 Height: 0		age Shield
Height: 0		Width: 0
		Height: 0
Setting		Setting

LOGO: Select LOGO type in text or in picture and add information of company, and software name. Then click the Setting button and re-open the software. Software Type: Select matrix switcher or video wall software mode.

Edge Shield: Image pixel adjustment in the video wall mode.

Buzzer Setting: Buzzer on/off. In buzzer off status, there is no sound when the user operate the machine.

4.6.3 Input Sources Setting

ftware Configuration	
Connect OC System II Input Qutput Source Group 1 Source Group 1 Source J Source J So	I/O User Input Stroup Setting Input Num: Setting Input Nume Setting Input Nume Setting Input Nume Setting Input Nume Setting Input //Group No: Stroup ID: Input Input Source Type: Edit Setting

Inputs group: Set input source group management, each group source numbers are user-defined.

Inputs group name: Set the input source group name.

Inputs/groups parameter setting: Set the input source serial number, group ID, channel name and source type.

4.6.4 Output Sources Setting

Softv	vare Co	nfiguration							×
2	Connect	🖗 [©] System	Input	🔍 Output	Q ⁶	I/O	1	User	
NO. 1 2 2	Port 1 2	Output Addr Output Address Output Address	Source Typ DVI DVI	Resolution 1080P@60 1080P@60					Basic Setting
4 5 6	4 5 6	Output Address Output Address Output Address Output Address	DVI DVI DVI	1080P@60 1080P@60 1080P@60					Column: 4 Setting
7 8	7 8	Output Address Output Address	DVI DVI	1080P@60 1080P@60					NO: 1 Port: 1 Output Addr: Output Address Source Type: DVI · · · Resolution: 1080P@60 · · Setting

Basic Setting: Set current display unit layout **Output Setting:** Set corresponding output port number, address name, source type etc..

4.6.5 I/O Setting

Set the modular input and output cards numbers combination.

3 0	Connect	0 ⁰	System		Input		Outp	ut Q ⁶	I/O	1	User						
No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10	No.11	No.12	No.13	No.14	No.15	No.16	No.17	
					9												_
			_		_		_	_		_	_			_		_	
17 I/O	Hybrid M	la' v l	nput card	9	Output	card: 8	Set	ting								Ар	oly

4. 6. 6 User Management

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

3				
Connect 🔯 System	🔲 Input 📉 Ou	tput 🔯 I/O 👤	User	
Connect System	er Manage User Name: admin Jser	Permission Pinput Subtitle Input Subtitle Scene Manange Output Source Output Source Output Setting Scene Save Scene Recall User Param User Name: admin Password: admin Delect A	✓ Connect Setting ✓ System Setting ✓ System Setting ✓ Output Setting ✓ I/O Setting ✓ U Ser Management ✓ Source Voice	

4.7 Help

Click the Help menu for software operation guide.

4.8 About

Check the **About** menu for software version information.

5. RS232 Protocols

COM port prot	tocols							
Baud rate: 118	5200 preset							
Data bit: 8bits	Data bit: 8bits							
Stop bit: 1bit								
Check Digit: N	lone							
	Switching Protocols							
Single Chann	el Switching							
PC to Matrix	Function	Matrix to PC	Example					
[X1]V[Y1].	Single input [X1] to output [Y1]	V:[X1]->[Y1]!	1V1.					
Multiple Char	nnels Switching							

PC to Matrix	Function	Matrix to PC	Example
[X1]V[Y1],[Y2].	Input [X1] to [Y1],[Y2]	V:[X1]->[Y1],[Y2] !	1V1,2,3.
[X1]All.	Input [X1] to All	[X1]A/V TO All!	1All.
All#.	All inputs to corresponding outputs	All A/V Through!	All#.
Close Single (Dutput	·	
PC to Matrix	Function	Matrix to PC	Example
0V[Y1].	Close output [Y1]	V:OFF->[Y1]!	0V1.
Close Multiple	Outputs		
PC to Matrix	Function	Matrix to PC	Example
[Y1], [Y2]V\$.	Y1], [Y2]V\$. Close outputs [Y1] and [Y2]		1,2,3V\$.
AII\$.	Close all outputs	All A/V Closed!	All\$.
	Scene Protocol	S	
PC to Matrix	Function	Matrix to PC	Example
Save[N].	Save the Scene N	Save To F[N]!	Save1.
Recall[N].	Recall the Scene N	Recall From F[N]!	Recall1.
Clear[N].	Delete the Scene N	Clear F[N]!	Clear1.
	Query protocols	5	
Channels con	nection query protocols		
PC to Matrix	Function	Matrix to PC	Example
			-
		V:[X1]->[X2]!	Otaturad
Status[Y1].	Query one output connection status.	V:[X1]->[X2]! A:[X1]->[X2]!	Status1.
Status[Y1].	Query one output connection status.	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]!	Status1.
Status[Y1].	Query one output connection status. Query all outputs connection status.	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]!	Status1. Status.
Status[Y1].	Query one output connection status. Query all outputs connection status.	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! 	Status1. Status.
Status[Y1].	Query one output connection status. Query all outputs connection status. Setting Protocol	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S	Status1. Status.
Status[Y1]. Status. PC to Matrix	Query one output connection status. Query all outputs connection status. Setting Protocol Function	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC	Status1. Status. Example
Status[Y1]. Status. PC to Matrix /:BellOff;	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off!	Status1. Status. Example /:BellOff;
Status[Y1]. Status. PC to Matrix /:BellOff; /:BellOn;	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer Turn on the buzzer	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off! Bell On!	Status1. Status. Example /:BellOff; /:BellOn;
Status[Y1]. Status. PC to Matrix /:BellOff; /:BellOn; /:BR[X4];	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer Turn on the buzzer Set the baud rate	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off! Bell On! Baudrate: 9600!	Status1. Status. Example /:BellOff; /:BellOn; /:BR9600;
Status[Y1]. Status. PC to Matrix /:BellOff; /:BellOn; /:BR[X4]; Switching proto	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer Turn on the buzzer Set the baud rate pools in hexadecimal:	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off! Bell On! Baudrate: 9600!	Status1. Status. Example /:BellOff; /:BellOn; /:BR9600;
Status[Y1]. Status. PC to Matrix /:BellOff; /:BellOn; /:BR[X4]; Switching proto 0 to 9 correspo	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer Turn on the buzzer Set the baud rate pcols in hexadecimal: nding 30 to 39	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off! Bell On! Baudrate: 9600!	Status1. Status. Example /:BellOff; /:BellOn; /:BR9600;
Status[Y1]. Status. PC to Matrix /:BellOff; /:BellOn; /:BR[X4]; Switching proto 0 to 9 correspondent A: 41 V: 56	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer Turn on the buzzer Set the baud rate pcols in hexadecimal: nding 30 to 39 I: 6C .: 2E	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off! Bell On! Baudrate: 9600!	Status1. Status. Example /:BellOff; /:BellOn; /:BR9600;
Status[Y1]. Status. PC to Matrix /:BellOff; /:BellOn; /:BR[X4]; Switching proto 0 to 9 correspo A: 41 V: 56 For example:	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer Turn on the buzzer Set the baud rate ocols in hexadecimal: nding 30 to 39 I: 6C .: 2E	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off! Bell On! Baudrate: 9600!	Status1. Status. Example /:BellOff; /:BellOn; /:BR9600;
Status[Y1]. Status. PC to Matrix /:BellOff; /:BellOn; /:BR[X4]; Switching proto 0 to 9 corresponder A: 41 V: 56 For example: 1V1. hexadecin	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer Turn on the buzzer Set the baud rate ocols in hexadecimal: nding 30 to 39 I: 6C : 2E mal : 31 56 31 2E	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off! Bell On! Baudrate: 9600!	Status1. Status. Example /:BellOff; /:BellOn; /:BR9600;
Status[Y1]. Status. PC to Matrix /:BellOff; /:BellOn; /:BR[X4]; Switching proto 0 to 9 corresponder A: 41 V: 56 For example: 1V1. hexadecin 2V5. hexadecin	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer Turn on the buzzer Set the baud rate pools in hexadecimal: nding 30 to 39 I: 6C .: 2E mal : 31 56 31 2E nal : 32 56 35 2E	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off! Bell On! Baudrate: 9600!	Status1. Status. Example /:BellOff; /:BellOn; /:BR9600;
Status[Y1]. Status. PC to Matrix /:BellOff; /:BellOn; /:BR[X4]; Switching proto 0 to 9 correspo A: 41 V: 56 For example: 1V1. hexadecin 2V5. hexadecin 6V12. hexadecin	Query one output connection status. Query all outputs connection status. Setting Protocol Function Turn off the buzzer Turn on the buzzer Set the baud rate pcols in hexadecimal: nding 30 to 39 I: 6C .: 2E mal : 31 56 31 2E mal: 32 56 35 2E simal: 36 56 31 32 2E	V:[X1]->[X2]! A:[X1]->[X2]! V:[X1]->[X2]! A:[X1]->[X2]! S Matrix to PC Bell Off! Bell On! Baudrate: 9600!	Status1. Status. Example /:BellOff; /:BellOn; /:BR9600;

6. Specifications

Model	AMC-04	AMC-08 AMC-0808S	AMC-16	AMC-36	AMC-72	
Product Name	4X4 Modular Matrix	8X8 Modular Matrix	16X16 Modular Matrix	36X36 Modular Matrix	72X72 Modular Matrix	
Interface	4 Input /4 Output	8 Input /8 Output	16 Input /16 Output	36 Input/36 Output	72 Input/72 Output	
Input Interface	One interface in one input board includes DVI, GA, CVBS, HDMI, HDMI-4K, 3G-SDI, YPbPr, HDBaseT, Fiber Optic etc.					
Output Interface	One interface in one output board includes DVI, GA, CVBS, HDMI, HDMI-4K, 3G-SDI, YPbPr, HDBaseT, Fiber Optic etc.					
Resolution	640x480~4096x2160@60Hz (VESA standard) 480i~2160@60hz (HDTV standard)					
Protocol Standard	Support DVI1.0 and HDMI1.3, HDMI1.4, HDMI 2.0, HDCP protocol and EDID management compliance.					
Transmission	25m (Digital cable), 30m (Analog cable), 100m (SUTP)					
Distance	300m (Multi-core fiber), 1.5~20Km (Single core fiber)					
Control	Front panel push buttons, IR Infrared, RS232 and LAN etc.					
Temperature/Humidity	Temperature: -20°C ~ +70°C Humidity: 10%~90%					
Power Consumption	100~260V 50/60Hz					
Power Consumption	50W	100W	200W	450W	1000W	
Product Dimension	440X350X45mm	440X350X99mm	440X350X223mm	440X400X490m	440X400X890m	
	(1U))	(2.5U)	(4.5U)	(11U)	(20 U)	
Product Weight	7Kg	12.5Kg	21Kg	35Kg	65Kg	

Model	AMC-17H	AMC-36H			
Product Name	17 I/0 Hybrid Matrix	36 I/0 Hybrid Matrix			
Interface	17 Input and Output	36 Input and Output			
Input Interface	One interface in one input board includes DVI, GA, CVBS, HDMI, HDMI-4K, 3G-SDI, YPbPr, HDBaseT, Fiber				
Output Interface	One interface in one output board includes DVI, GA, CVBS, HDMI, HDMI-4K, 3G-SDI, YPbPr, HDBaseT,				
Resolution	640x480~4096x2160@60Hz (VESA standard)				
Protocol Standard	Support DVI1.0 and HDMI1.3, HDMI1.4, HDMI 2.0, HDCP protocol and EDID management compliance.				
Transmission	25m (Digital cable), 30m (Analog cable), 100m (SUTP),				
Distance	300m (Multi-core fiber), 1.5~20Km (Single core fiber)				
Control	Front panel push buttons, IR Infrared, RS232 and LAN etc.				
Temperature/Humidity	' Temperature: -20℃ ~ +70℃ Humidity: 10%~90%				
Power Consumption	100~260V 50/60Hz				
Power Consumption	100W	200W			
Product Dimension	440X350X99mm (2.5U)	440X350X223mm (5U)			
Product Weight	12.5Kg	21Kg			