

WolfPack 1080p 4X4 Seamless HDMI Video Wall Matrix Switch

Part Number: HDTV-400M-1080P



Version: V24.07

Safety Reminder

To protect the device and operating personnel from electrostatic discharge, you need to check and ensure that the device is grounding well before the device is powered on. Please observe the following when you install, use, maintain this equipment.



Make sure the device ground connection.

Important Safety Instructions



 Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



 Clean this apparatus only with dry cloth.



 Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.



7. Unplug this apparatus during lightning storms or when unused for long periods of time.



3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.



8. Protect the power cord from being walked on or pinched particularly at plugs.



4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



 Only use attachments / accessories specified by the manufacturer.



 Do not place sources of naked flames, such as lighted candles, on the unit.



10. Refer all servicing to qualified service personnel.

Warnings of FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- > Reorient or relocate the receiving antenna.
- > Increase the separation between the equipment and decoder.
- Connect the equipment into an outlet on a circuit different from that to which the decoder is connected.
- > Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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1. Product Introduction

This is a the SVM-MANAGER series 1080P HDMI Matrix switchers with the seamless switch, Video Wall function, WEB GUI and EDID management, audio embedded and de-embedded and the resolution can up to 1080p60Hz with scaling function and all ports are HDCP compliant. With the friendly user control methods: IR remote control, push buttons with background blue light, APP/WEB GUI/TCPIP/RS232/IR remote control, supports the WEB smart EDID management, this matrix switcher can work with the Blu-Ray Players, Set-Top boxes, Home Theater, and game consoles etc. HDMI input sources to route to the HDMI displays, it has been widely used in different audio visual applications.

2. Features

- > The resolution can up to 1080P60Hz inputs and outputs with scaling
- Supports seamless switching, no black/blue screen during the sources switch
- > Supports the video wall function and bezel corrections
- > Supports the 3.5mm audio embedded and de-embedded
- > Supports smart EDID management
- > Supports RS232 and TCP/IP Control (WEB GUI, APP), IR remote control
- > Supports the push buttons control with blue lights
- > Supports to rename the inputs and outputs
- Supports up to 16 scenes

3. Specification

	Resolution	Inputs FHD 1080P60Hz and under
Video	Resolution	Outputs 1080P60HZ\720P\1366*768@60
	HDMI protocol	HDMI1.4
	HDCP protocol	HDCP1.4
	Color depth	8/10/12 bit
	Color space	YCbCr, RGB
	EDID	Built-in and output ports learning/copy
	HDMI output	4 inputs

	HDMI output	4 outputs
	Audio format	PCM 2.1Ch, Dolby Digital, Dolby True-HD, DTS-HD (Only supports 2.1)
Audio	Audio sampling	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
	Audio baud rate	Up to 16~24-bit
	RS232	DB9 female connector
Control	IR	IR receiver
	LAN	RJ45 for the TCP/IP control
	Power	Power adapter 24V/3A
	Consumption	20W
	Size	440*279*44 (mm) for the 4x4 and 8x8
Other	Weight	3kg
	Working temp	0°C~50°C
	Storage temp	-20°C~ 60°C
	Working Humidity	20%-90%

6. Panel Description

Front panel



A: LCD screen for the switching, EDID, IP etc. information display.

- B: IR light for the IR remote control
- C: Power indicator
- D: Inputs buttons

- E: Output buttons
- E: Control buttons

Back panel



- G: 3.5mm audio embedded ports
- I: HDMI input ports
- H: 3.5mm audio embedded ports
- J: HDMI output ports
- K: RS232 ports for the 3rd party control
- L: RJ45 port for the WEB GUI/TCP/IP control
- M: Power supply port
- N: Grounding

7. Matrix Switcher control

This Matrix switcher can support IR remote, WEB GUI browser, TCP/IP/RS232 control, or the front push-buttons control.

7.1 Remote Control

Users also can control this matrix switcher with the remote control.

Channel switching:

Press the input from number " $1 \sim 4$ ", first press the input number 1-4), and then press the output number 1-4 to switch

E.g. Switch input 1 to output 1, 2, 3: $1 \rightarrow SWITCH \rightarrow 1$, 2, 3 Scene Save: Press "SAVE", then press the scene number from "1~8", and finally press "ENTER " Eg, save switching input 1 to output 1,2,3 to scene 2: SAVE $\rightarrow 2 \rightarrow ENTER$ Scene Recall: Press "RECALL", then press the scene number from "1~8", and finally press "ENTER " Eg, Recall scene 2: RECALL $\rightarrow 2 \rightarrow ENTER$



7.2 WEB GUI browser Control

Users also can use the WEB browser to control the matrix switcher, users can have the matrix switcher connected with the PC with the LAN cable directly or have the matrix switcher connected the same network switch. The default IP address of the matrix switcher is 192.168.1.188

After opening the browser, users can type the matrix switcher IP address and press enter:

C O A Not secure 192.168.1.183

SWITCH
WALL
EDID
SYSTEM
EXIT

User

Password

Login

The default user name is admin and the password is admin.

After login, it will turn to "Switch" interface, users can do the sources switching, scenes

7.2.1 Switch

O MatrixSystem	× +							- 0 ×
	Ketur 192-188.1.188/video.ntml		145	SWITCH	RECALL WALI	EDID SYS	rem exit	
	Input:				🌒 No Signal 🌎 No	Connect 😑 Connect	 Signal 	
	HDMI-INI	HIDMI-IN2	HDMI-IN3	HDMI-IN4				
	Output:			Scene: 1:2x2 VW ~	Save Rocall	Close 1	ULAG	
	HDMI-IN2	HDMI-0UT2	IIDMI-IN2 HDMI-OUT3	HDMI-IN2				
$+ - \chi P$	ATA		7407	-1/11	74274	-XI/AT	740	

On the input and output buttons, users also can view the active ports by the button color, 2 steps for the switching

Input:				 No Signal 	No Connect	Connect	 Signal
HDMI-IN1	HDMI-IN2	HDMI-IN3	HDMI-IN4				
Output:			Scene: 1:SCENE Y	Save	close	ToA	11
HDMI-INI HDMI-OUTI	HDMI-INI HDMI-OUT2	HDMI-INI HDMI-OUT3	HDMI-INI HDMI-OUT4				

Function button: Save, Recall, Closed, To All

Input: HDMI-IN1	HDMI-IN2	HDMI-IN3	HDMI-IN4	No Signal	ło Connect 🍵 Co	anect Signal
Output: HDMI-INI HDMI-OUTI	HDMI-INI HDMI-OUT2	HDMI-INI HDMI-OUT3	Scene: 1:SCENE V HDMI-INI HDMI-OUT4	Save Recall	Close	ToAll

Save and Recall: It will take 2 steps to Save or Recall the scenes, select the scene number first, and then click "Save" or "Recall" button, you will hear the "beep" sound from the matrix , it was successfully.

Close: Click the "close" button firstly and select the output you want to close (no image on screen), you will hear the "beep" sound from the matrix, it was successfully:



To All: Select the input firstly, and then click the "ToAll" button:

Input:	•	No Signal	•	No Connect	•	Connect	•	Signal
HDMI-IN1 HDMI-IN2 HDMI-IN3 HDMI-IN4								
Output: Scene: 1:SCENE V Sa	ve		Recall	C	llose		ToAll	
HDMI-INI HDMI-INI HDMI-INI HDMI-INI HDMI-OUT1 HDMI-OUT2 HDMI-OUT3 HDMI-OUT4								

7.2.2 Video Wall:

Users can setup the VW wall, adjust the bezel, or save/recall the VW scenes,

Step1: Configure the VW size by select the "X screen size" and "Y screen size"

- Step2: Select the input you want
- **Step3**: Select the output for the video wall.

Step4: select the "on" to open the video wall

			$\langle V \rangle$	SWITCH	WALL EDID	SYSTEM	EXIT
OUT-1 V OUT-5 V	1 DUT-2 > 5 OUT-6 >	2 OUT-3 Y 5	OUT-4 ¥ OUT-8 ¥	۹ s Step	Wall Set • Save • Recall • Wall Group Step 4 • Enabled • In Select • X Screen Size • Y Screen Size	NoSelect NoSelect 1 0N 4 2 NoSelect NoSel	
S	tep 3				• X Border Step1 • Y Border	0	mm

Also can support the Easy-mode:

♥ 🕲 MatrixSystem	× +				- 0 ×
← → ♂ △ No	t serure 192.168.1.188/wall.html			् 🖈 🔶 🌒	🖲 🚳 🖸 🔯 🖸 🖉 🖲
	Easy Mode		SWITCH RECALL	WALL EDID SYST	EM EXIT
	IIDMLIN2	1 IIDMI-IN2	2	Wall Set • Save NoSe • Recall NoSe • X Screen Size 2 • Y Screen Size 2	lect v v v
	IIIDMLIN2	3 HDMI-IN2		Screen command ON OFF In Select IDM:80 IDM:92 IDM:92	BIXKI INA
		Wall Screen	XI Z 11 T 1		

7.2.3 EDID Management:

Switch: Select the output, and then click the input, then will copy the EDID of input to output.



Recall: Select the EDID in the system, and then select the input, it means copy the EDID in the system to input.



Save: Select the output, and then select the system, then will save the output EDID to system.



7.2.4 System Setting:

General/Network setting

 Ø MatrixSystem 	× +		- o ×
← → ♂ 🛆 Not secu	192.168.1.188/system.html	९ 🖈 🖗 🗶 🕸 🖉 🙆 📴 🗅	± 🕼 🗄
		SWITCH RECALL WALL EDID SYSTEM EXIT	
	General • Buzzer		
\rightarrow	 Language 	English	
>	Network		
	 IP Address 	192.168.1.188	
	 Subnet 	255.255.255.0	
	 Gateway 	192.168.1.1	
	 TCP Port 	8080 1-65535	
	• DHCP	Save	

Serial Settings: User can change the band rate, data bit

Serial

 Baud rate 	115200	~
 Data bits 	8bit	~
• Stop bits	1bit	~
• Parity	NONE	~

Input Audio Settings: User can select the Internal HDMI or External 3.5mm audio for the 8 input

Input

Port	Туре	Input Audio	HPD	Signal	Resolution	EDID	Ver
IN 1	HDMI 1.4	Internal ~	OFF	OFF	No Signal	SHARP HDMI	v100
IN 2	HDMI 1.4	Internal ~	OFF	OFF	No Signal	1080P60	v100
IN 3	HDMI 1.4	Internal ~	OFF	OFF	No Signal	1080P60	v100
IN 4	HDMI 1.4	Internal ~	OFF	OFF	No Signal	4K30	v100

Output Settings: User can ON or OFF the auto switch, select the out format, select the resolution and brightness, saturation and contrast.

Output (OUT1)

• Auto Switch	OFF	\sim
• Out format	HDMI	~
• Resolution	1920x1080p60Hz	~
 Brightness 	50	0~99
 Saturation 	50	0~99
 Contrast 	50	0~99

Auto switch: User can select Auto mode and Last mode or off

Output (OUT1)		
• Auto Switch	OFF OFF	~
• Out format	AutoMode LastMode	

Auto mode: that means when the input source is disconnected, the matrix will auto switch the input 1 to the screen, if input 1 also have not source connected, the matrix will auto switch input 2 to the screen, matrix will follow the principle from input 1 to input 8 based connect some input sources.

Last Mode: that means the screen will be showed the last signal of connection, and will off the auto switch function, when the input source is disconnected, the display will be black.

Out format: User can select the output format to DVI or HDMI

Output (OUT1)		
• Auto Switch	OFF	~
• Out format	HDMI	~
• Resolution	HDMI	

Resolution Setting: *Although it has the 4K30 resolution in the list but recommend to select up to 1080P60 would be the most stable way to use.

Output

Port	Type	Auto Switch	Out format	Resolution	Brightness	Saturation	Contrast	HPD	Signal	EDID	Ver
OUT 1	HDMI 1.4	Auto 🗸	HDMI 🗸	1280x720P60Hz ~	50 ~	50 🗸	50 ~	ON	ON	HDMI	v100
OUT 2	HDMI 1.4	OFF v	HDMI ~	1024x768P60Hz 1280x720P50Hz	50 ~	50 ~	50 ~	ON	ON	HDMI	v100
OUT 3	HDMI 1.4	OFF 🗸	HDMI 🗸	1280x720P60Hz	50 ~	50 🗸	50 ~	ON	ON	HDMI	v100
OUT 4	HDMI 1.4	OFF v	HDMI ~	1280x768P60Hz 1280x800P60Hz	50 ~	50 ~	50 ~	ON	ON	HDMI	v100
Renar	ne			1280x960P60Hz 1280x1024P60Hz							
• Inpi	ut Name	[IN1 ~	1366x768P60Hz 1440x900P60Hz 1680x1050P60Hz		Save					
😐 Out	put Name	0	OUT1 v	1600x1200P60Hz 1920x1080P30Hz		Save					
• Sce	ne Name	-	s1 ~	1920x1080P50Hz 1920x1080P60Hz 1920x1200P60Hz		Save					

Rename: User can enter the name and save it for the input, output and sence.

Rename

 Input Name 	IN1 V	Save
 Output Name 	OUT1 🗸	Save
 Scene Name 	S1 ¥	Save

7.3 Upgrade Settings:

Connect to the matrix through the network assistant or serial port assistant to send commands: #BOOT

🔮 USR-TCP232-Test RS2	32 to Ethernet Con	vert tester				- 🗆 ×
OSR-TCP232-Test RS2 File(E) Options(O) Help COMSettings PortNum COM8 BaudR 115200 Deaity NONE Deaity NONE StopB 1 bit	32 to Ethernet Con (H) COM port data receiv	vert tester		Network data receive		- × - - × - - - × - - - × -
Receive to file Add line return Receive As HEX Receive Pause Save Clear						Connect Recv Options Receive to file Add line return Receive As HEX Receive Pause Save Clear
Send Options Data from file Auto Checksum Auto Clear Input Send As Hex Send Recycle						Send Options Data from file Auto Checksum Auto Clear Input Send As Hex Send Recycle
Interval 0 ms Load Clear	Send: 0	Becy: 0	Send	#BOOT.	Send Send : 6	Interval 1000 ms Load Clear

WEB GUI upgrading click the SYSTEM for 10 times, then it will pop-up the upgrading window and click OK to enter.

× 🗞 MatrixSystem x +							- o >
← → C ▲ Not secure 192.168.1.188/system.html				् 🕁		S 0 8 D	1 ± 🚱 3
SCHARC'	192.168.1.188 says Go to the system update page?	OK Cancel ECAI	LL WALL	EDID	SYSTEM Click 10 kin	EXIT	

7.4 Application control

The matrix can support APP control. iOS users can directly search for MCS Connect in the Apple store to download the APP, and Android users can download and install it through the website.



192.168.1.188	Enter	
---------------	-------	--

eg:192.168.1.111

1. TCP/IP/RS232 control:

Support RS232, TCP (8080): connect to the control device through the RS232 serial cable

Baud rate: 115200 (factory default), N, 8, 1

Use RS232 direct connection

Control command	Function
#SW:[X]to[Y].	Switch input [X] to output [Y]

#ASW:[X],[Y].	output [X], select the switch mode
	[Y]: 0:off 1: Auto mode, 2:Lastmode
#SAVE:[X].	Save scene, [X] is 132
#RECALL:[X].	Recall scene, [X]is132
#BUZZER:[X].	On or Off the Buzzer, [X] 0:OFF 1:ON
#RESET.	Restore to factory setting
#VSW:?.	Review the video switchover status

ш	SCOMM Assistant			4 - D
\Serial Network	Data Log SCOMM V5.0.13	-	JT808 Data Chart Checksum ASCII	Table More Tool
(1) Protocol		^	Shortcut BatchSend History AutoRep	oly ModbusDebu
TCP Client 🗸	[2024-07-16 18:57:32.028]# SEND ASCII/9 to SERVER >>> #SW:2to2		Data Record	Send Time
(2) Remote Host Addr	n orradoa.		ab) #SW:2to2.	18:57:19 07-16
192.168.1.188 ~	[2024-07-16 18:57:32.052]# RECV HEX/9 from SERVER <<<		🌉 #SW:1to2.	18:56:31 07-16
(3) Remote Host Port	2153573A32740F322E		ab) 2x1.	18:55:35 07-16
8080	[2024-07-16 18:57:35.063]# SEND ASCII/9 to SERVER >>>		赵 1x1.	18:55:29 07-16
	#SW:2to2.		10 FD F4 03 87 5E 42 60 DF	18:29:55 07-08
Disconnect	[2024-07-16 18:57:35.072]# RECV ASCII/9 from SERVER <<< ISW:2to2.		88 FD F4 03 87 5E 48 34 DF	18:29:43 07-08
Recv Options				
ASCII O HEX	#SW:1to2			
🗹 Log Display Mode				
Auto Linefeed	[2024-07-16 18:57:35.785]# RECV ASCII/9 from SERVER <<<			
Hide Received Data				
Save Recv to File	[2024-07-16 18:57:37.143]# SEND ASCII/9 to SERVER >>> #SW:2to2.			
AutoReply Donate	[2024-07-16 18:57:37.167]# RECV ASCII/9 from SERVER <<< ISW:2to2.			
<u>BatchSend</u> <u>Checksum</u> <u>DataChart</u> <u>Themes</u>	[2024-07-16 18:57:37.578]# SEND ASCII/9 to SERVER >>> #SW:1to2.			
Send Options	[2024-07-16 18:57:37.602]# RECV ASCII/9 from SERVER <<<			
● ASCII ◯ HEX	!SW:1to2.			
O File Data Transfer		~		
🗹 Use Escape Chars 🛈	Net Send			
Auto Append Bytes	#\$\u(1\c2			
Cycle Time 1000 ms	1014.102.1			Send
Shortout <u>History</u>				~
👉 Ready!			14/16 BX:126 TX:1	34 Reset



HDTV Supply, Inc

Inquiries and Aftersales Support

For any inquiries or assistance related to this product, including aftersales service, please contact our customer support team. We are committed to providing you with the highest level of service.

Contact Details:

- Phone: 833-WOLFPACK (833-965-3722)
- Email: <u>customerservice@hdtvsupply.com</u> | <u>support@hdtvsupply.com</u>
- Website: <u>www.hdtvsupply.com</u>

Our team is ready to assist with any questions or concerns you may have.