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4x4 HDMI Matrix Switch w/ Picture-and-Picture – 1080p

VS424HDPIP



*actual product may vary from photos

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Introduction

Packaging Contents

- 1 x HDMI Matrix Switch (VS424HDPIP)
- 1 x Remote control
- 1 x Mounting brackets
- 1 x Universal Power Adapter (NA/UK/EU/AUS)
- 1 x Quick Install Guide

System Requirements

- Up to 4 x HDMI-enabled Video Source Devices (i.e. computer, Blu-ray Player)
- Up to 4 x HDMI-enabled Display Devices (i.e. television, projector)
- Up to 8 x M/M HDMI cables for displays and video sources

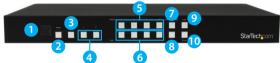


Product Diagram

Front View

- 1. IR Sensor
- 2. Power Button / LED
- 3. Menu Button / LED
- 4. Menu Operation Buttons / LEDs
- 5. Output Selection Buttons / LEDs
- 6. Input Selection Buttons / LEDs
- 7. Mode Selection Button / LEDs

8. Save Button / LED
 9. Lock Button / LED
 10. Recall Button



Rear View

- 1. HDMI Input Ports
- 2. HDMI Output Ports
- 3. LAN Port
- 4. USB Service Port
- 5. RS232 Serial Port
- 6. Power Adapter Port





Hardware Installation

1.

- Connect up to four HDMI cables (not included) from each of your HDMI video source devices (i.e. computers, Blu-ray Players) to each of the HDMI input ports on the matrix switch.
- Connect up to 4 HDMI cables (not included) from each HDMI output port on the matrix switch to the HDMI input ports on your display devices (i.e. televisions, projectors).
- 4. Connect the power adapter from an available power outlet to the Power adapter port the Matrix switch.
- 5. (Optional) If you would like to control your Matrix Switch with RS232, connect a DB-9 pin serial cable (not included) from the RS232 serial port on the matrix switch to your RS232 serial port on your computer system.
- 6. (Optional) If you would like to control your Matrix Switch over your network, connect a network cable (not included) from the LAN port on the matrix switch to an available LAN port on your network device.

Hardware Operation

Matrix Operation

- 1. Press the Mode button repeatedly until the Mode LED is solid to indicate Matrix Mode.
- 2. Press the Output select button (that corresponds with the lettered output display) you wish to select.
- 3. Press the input select button (that corresponds with the numbered input display) you wish to output on your selected output display.
- Your selected video input will now be displayed on your selected video output. Repeat steps 2- 3 for each video output you wish to adjust. Each output setting must be made individually.

Dual Mode Operation

- 1. Press the Mode button repeatedly until the Mode LED is unilluminated to indicate Dual Mode.
- 2. Press output A/B and then press corresponding input 1/2.

For example: If you press output A then press input 1, output A will display the input 1 image on the left side. If you then press output B followed by input 2, output A will display the input 2 image on the right side. Both output A and B will have an identical image.



Note: Dual A group are output A and B, Dual B group are output C and D. Each group will output the same image simultaneously.

- 3. To switch the audio source between output A or B, Press button A or B for 3 seconds.
- 4. To switch the audio source between output C or D, Press button C or D for 3 seconds.

TV Wall Mode Operation

- 1. Press the Mode button repeatedly until the LED is blinking to indicate TV Wall Mode.
- 2. Press the input select button (that corresponds with the numbered input display) you wish to output on all displays.

Note: Audio will Output on the device connected to Video Output A only

On Screen Display Menu

The OSD menu gives you access to advanced functionality. The below table lists each OSD menu option. The description field outlines the functionality of each menu selection.

Main Menu	:	Sub Menu	Adjustments	Default	Description
		CONTRAST	0~100	50	Enables you to adjust
		BRIGHTNESS	0~100	50	the specified attributes for
		SATURATION	0~100	50	your desired picture quality.
PICUTRE	ALL	HUE	0~100	50	Note: In Matrix mode, four pictures adjust simultaneously. In Dual/TV Wall mode, each picture can adjust individual and support individual last memory feature.



		DUAL AL		Enables you to
	DUAL	DUAL AR		select Dual mode with your desired video outputs selected.
	D	DUAL BL		
		DUAL BR		selectea.
		OUT A		Enables you to
	TV WALL	OUT B		select TV WALL mode with your
	T<	OUT C		desired video output.
		OUT D		output.
	RESET		Restores default output settings.	
		RESET ALL		, ,
	ALL	EXIT		Returns to Main Menu.
OUTPUT RESOLUTION	480p, 576p, 720p50, 720p60, 1080i50, 1080i60, 1080p24, 1080p50, 1080p60, 1024x768, 1280x800, 1280x1024, 1366x768, 1440x900,		720p60	Enables you to select your desired output resolution. Note: 1080i@50/60 are supported in Matrix mode
	10	00x900, 1600x1200, 1680x1050, 1920x1200		only.
		EXIT		Returns to Main Menu.



AUDIO EDID	LPCM 2CH, LPCM, 6CH, LPCM 8CH, BIT-STREAM, HD		LPCM 2CH	Enables you to define your available audio specification to your audio source device. Note: Whichever is selected will limit the audio distributed by your source device.
		EXIT		Returns to Main Menu.
	POSITION	LEFT T, RIGHT T, LEFT B, RIGHT B	LEFTT	Enables you to adjust the specified attributes in relation to the On the
	H OFFSET	0 ~ 20	10	Screen display positioning and
	V OFFSET	0~20	10	operation.
OSD SETTINGS	TRANSPARENCY	0~9	4	Note: TIMEOUT
	MENU TIMEOUT	5 ~ 50 OFF	8	=OFF means
	INFO.TIMEOUT	5 ~ 50 OFF	8	MENU and INFO will continue
	INFO.DISPLAY	ON, OFF	ON	showing on the screen
	BRIEF INFO	ON, OFF	OFF	Screen
	EXIT			Returns to Main Menu.



	INPUT	ACCEPT, NOT ACCEPT	ACCEPT	Enables you to turn HDCP
HDCP	OUTPUT	FOLLOW INPUT, ALWAYS ON	Follow INPUT	support on and off.
		EXIT		Returns to Main Menu.
	CORRECTION	ON, OFF	OFF	Enables you to define image compensation for the bezel size
BEZEL	H CORRECTION	0~ by output resolution	0	of your monitors for when the
	V CORRECTION	0~ by output resolution	0	switch is in TV WALL mode.
		EXIT		Returns to Main Menu.
	RECALL	CANCEL, FAV .1 ~ 4	CANCEL	Enables you to access the
RECALL / SAVE	SAVE	CANCEL, FAV .1 ~ 4	CANCEL	save and recall features from the OSD menu.
		EXIT		Returns to Main Menu.

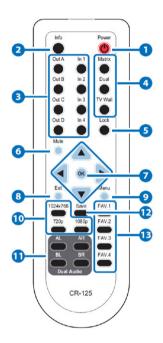


	IP MODE	DHCP, STATIC	DHCP	
	STATIC SET	IP, MASK, GATE	IP	
	BYTE1		192	Enables you to define Network
	BYTE2		168	communication
ETHERNET	BYTE3		5	protocols for remote
	BYTE4		155	operation.
	RE-LINK			
	TIMEOUT (Min.)	5~60, OFF	10	
	EXIT		Returns to Main Menu.	
OTHERS	IR ADDRESS	0~3	0	Enables you to specify up to three different IR modes for the use of multiple switches with multiple remote controls.
		EXIT		Returns to Main Menu.
	IN/OL	JT RESOLUTION		Enables you
	SOURCE HDCP/AUDIO			to view the technical
INFORMATION	OUT MODE, FIRMWARE VER			specifications of the specified attributes.
	EXIT		Returns to Main Menu.	
EXIT				Closes OSD Menu.



IR Remote Control Operation

An IR remote control is included with the VS424HDPIP for hassle-free remote operation. Please review the legend below for a detailed description of each remote control function.





- 1. **Power:** Press this button to switch on the device or press it again to set it to standby mode.
- 2. Info: Press this button to show the device's firmware version.
- Out A~D and In 1~4: Press out¬put A~D and then press input 1~4 to select display input. For example: press Out A then press In 1, output A will display input 1's image.
- 4. MATRIX/DUAL/WALL: Press to switch between Matrix mode, Dual mode and TV Wall mode.
- 5. Lock: Press once to lock the keypad and remote control, press 3 second again to re¬lease the lock function.
- 6. Mute: Press this button to mute the audio from HDMI output port.
- A/▼/←/→/OK: Press these buttons to scroll through the OSD selec¬tion and press OK to enter and confirm the setting.
- 8. Exit: Press this button to exit the OSD menu or the OSD settings.
- 9. Menu: Press this button to enter into the OSD menu.
- 10. **1024x768/720p/1080p:** Press these hot keys to switch between each resolution.
- 11. AL/AR/BL/BR: When in Dual mode, press these hot keys to switch the audio channel in Left or Right side for Dual A and Dual B group.
- 12. SAVE: To save the customized input and output corresponding settings.
 - i. Press "Matrix/Dual/Wall" button to select mode status.
 - ii. Press each output channel A~D and then press corresponding input channel 1~4.
 - iii. Press "SAVE", then input 1~4's LED will illuminate at the same time, then press remote control FAV.1~FAV.4 to save to the system memory.
- 13. FAV.1~FAV.4: Press favorite hot keys 1~4 to bring up the customized screen save settings.

IR Remote Control Dip Switch

If you're using multiple switches in the same location you can configure up to three remote controls on different IR addressing to avoid interference with each other. To adjust the remote control, open the Remote control back cover and adjust the dip-switch ON/OFF to match IR address setting in the OSD menu. Factory default setting is 0.

0	1	2	3
$\downarrow\downarrow$	$\downarrow \uparrow$	$\downarrow \uparrow$	$\uparrow\uparrow$
12	12	12	12



You must then adjust the switch itself using the OSD menu, to the specific number you've set your remote control to. To adjust the IR addressing of the switch itself please access the below setting in the OSD menu.

Others -> IR addressing

RS232 Serial Operation

RS232 Pin Assignment

VS424HDPIP		
PIN	Assignment	
1	NC	
2	TxD	
3	RxD	
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	

Serial Controller (PC)		
PIN	Definition	
1	NC	
2	TxD	
3	RxD	
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	

RS232 Protocols

Baud Rate: 115200bps

Data Bit: 8 bits

Parity: None

Flow Control: None

Stop Bit: 1



RS232 Telent Commands

Note: All commands will be not executed unless followed with a carriage return (0x0D) and commands are case-sensitive.

Command	Action	Return
AUA001	Dual A Audio channel in Left side	AUA001
AUA002	Dual A Audio channel in Right side	AUA002
AUA999	Check Dual A audio channel status	AUA???
AUB001	Dual B Audio channel in Left side	AUB001
AUB002	Dual B Audio channel in Right side	AUB002
AUB999	Check Dual B audio channel status	AUB???
AUD000	Audio output Off	AUD000
AUD001	Audio output On	AUD001
AUD999	Check audio on/off status	AUD???
AUE000	Audio edid is LPCM 2CH	AUE000
AUE001	Audio edid is LPCM 6CH	AUE001
AUE002	Audio edid is LPCM 8CH	AUE002
AUE003	Audio edid is BITSTREAM	AUE003
AUE004	Audio edid is HD	AUE004
AUE999	Check audio edid setting	AUE???
BEZ000	Bezel Correction OFF	BEZ000
BEZ001	Bezel Correction ON	BEZ001
BEZ999	Check bezel correction on/ off status	BEZ???



BEH???	Horizontal (H) Bezel correc- tion???=000 ~ Maximum	BEH???	
BEH998	Check the current Horizontal(H) Bezel correction Maximum value	BEH???	
BEH999	Check the current Horizontal(H) Bezel correction setting value	BEH???	
BEV???	Vertical (V) Bezel correction???=000 ~ Maximum	BEV???	
BEV998	Check the current Vertical(V) Bezel correction Maximum value	BEV???	
BEV999	Check the current Vertical(V) Bezel correction setting value	BEV???	
	Setting Brightness	No response	
	???=000~100 for	matrix mode	
BRI???	???=(000~100)+200*(OUT No1) for dual/tv wall mode		
	For example: OUT B set the =(57)+200*(2	Brightness value to 57 P-1) = 257	
	Check current Brightness value	BRI???	
BRI99?	99?=999 for m	atrix mode	
	99?=991~994=OUT1~4 for dual/tv wall mode		
CAL???	RECALL FAV. ???=001~004=FAV.1~4	CAL???	
CON???	Settings Contrast	No Response	
CON999	Command Setting same as Brightness	CON???	
DUL001	Sets Dual mode to PoP	DUL001	



DUL002	Sets Dual mode to PiP	DUL002
DUL003	Checks Dual mode status	DUL999
EGW999	RS232 only, checks the current Ethernet gateway address	aaa.bbb.ccc.ddd
EIP999	RS232 only, check the current Ethernet IP address	aaa.bbb.ccc.ddd
EMK999	RS232 only, checks the current Ethernet Subnet mask address	aaa.bbb.ccc.ddd
HLP999	Shows the command list	Command List
HPI0xy	HDCP Input setting x=1~4=IN 1~4, y=o=On, y=1=Off	HPI0xy
HPI99?	Check HDCP INPUT setting ? =1~4 = IN 1~4	HPI0xy
HPO0xy	HDCP Output setting x=1~4=OUT A~D, y=o=Follow Input, y=1=Follow Output	HPI0xy
HPO99?	Check HDCPOUTPUT setting ? =1~4 = OUT A~D	НРО0ху
HUE??	Setting HUE	No response
HUE999	Command setting same as Brightness (BRI)	HUE???
INP???	INPUT selection ??? = 001~ 004 = IN 1~4	INP???
	Execute OUT???	
INP999	Check current INPUT	INP???
LAB000	Set Input label off	LAB000



LAB001	Set Input label on	LAB001	
LAB999	Check current Input label on/off	LAB???	
LAIxyyyyyy	Set Input label name x =1 - 4 = IN 1 - 4, yyyyyyyyyyy max. 12 characters	LAlxyy	
LAI99?	Check Input label character ? = $1 - 4 = IN 1 - 4$	LAlxyy	
LCK000	Unlock	LCK000	
LCK001	Lock	LCK001	
LCK999	Check current Lock/Unlock status	LCK???	
MNE001	OSD Menu EXIT	No response	
MND001	OSD Menu DOWN	No response	
MNL001	OSD Menu LEFT (-)	No response	
MNO001	OSD Menu OK	No response	
MNR001	OSD Menu RIGHT (+)	No response	
MNU001	OSD Menu UP	No response	
MNX001	OSD menu	No response	
MOD001	Matrix mode	MOD001	
MOD002	Dual PoP mode	MOD002	
MOD003	TV Wall mode	MOD003	
MOD004	Dual PiP mode	MOD004	
MOD005	Quad mode	MOD005	
MOD999	Check current output mode status	MOD???	
OUT???	OUTPUT selection ??? = 001 - 004 = OUT A - D	OUT???	
OUT999	Check current OUTPUT	OUT???	



PPO0xy	Dual PiP/Sub Position x=1~2=PiP A~B y=0=Upper left, 1=Upper	PPO0xy	
PPO0xy	right, 2=Low		
	er right, 3= Lower left		
PPO099?	Check PiP/Sub Postion status ?=1~2=PiP A~B	PPO0xy	
PSW001	Dual PiP A(Main) image swap with Sub	PSW001	
PSW002	Dual PiP B(Sub) image swap with Main	PSW002	
PSZ0xy	Dual PiP/Sub Size x=1~2=PiP A~B y=0=Large, 1=Medium, 2=Small, 3= Off	PSZ0xy	
PWR000	Power Off(Standby)	PWR000	
PWR001	Power On	PWR001	
PWR999	Check current power status	PWR???	
RES???	Output resolution ??? =001~corresponding osd menu list	RES???	
RES999	Check current output resolution	RES???	
RST001	Factory Reset	RST001	
RST002	Picture Reset	RST002	
SAT???	Setting Saturation	No response	
SAT999	Command setting same as Brightness (BRI)	SAT???	
SAV???	SAVE FAV. ??? =001~004=FAV.1~4	SAV???	



VER999		VER	
	Check firmware version	???	
	Check Infilware version	Example:	
		VER110=V1.1	
VR2999	Check customer's firmware	VR2	
	version	???	



IP Operation Using Web Browser

Before you begin:

- · Power Status must be set to on, and source status must be unlocked
- Ensure step 5. of hardware Setup has been completed.
- Obtain the IP address of the VS424HDPIP using the OSD menu. Access the following sub menu:

ETHERNET -> IP

Your IP address will be displayed next to IP.

Note: The switch supports DHCP and it is activated by default. As a result if you connect it to a piece of network equipment that supports DHCP your IP address will automatically change. If your network equipment does not support DHCP your default IP address will be 192.168.5.155

Access IP Operation Web GUI

- 1. Open your web browser.
- 2. In the address bar type the IP address obtained from your OSD menu, and press enter.
- 3. The VS424HDPIP web GUI is now displayed.

Operate your VS424HDPIP using the Web GUI

The web GUI enables you to remotely operate your VS424HDPIP with basic and advanced functionality. The below sections outline the features and navigation of the Web GUI.

Operation Pane

The operation pane gives you a high level overview as well as access to basic switch operation. The Operation pane is always visible at the top of every page in the Web GUI.



The **Information-in** and **information-out** sections gives you an overview of the current connected video source and display devices.

The Status section enables you to power off the device.

The **Source** section enables you to select your desired mode as well as define which video source devices will be shown on each display.

The Save/Factory section enables you to save and action the customized input and output corresponding settings.



Advanced Menu

The Advanced menu is available on the left hand side of the GUI, and enables you to navigate between advanced sections of operation.

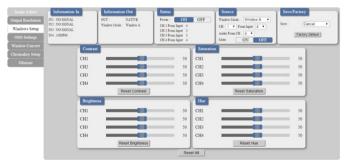


Descriptions outlining navigation as well as the available functionality for each tab are listed below.

Image Adjust

By default, the **Image Adjust** tab is the first window displayed when the web GUI is opened. If you would like to access the **Image Adjust** tab, and have navigated away from the Window, click **Image Adjust** tab from the side menu.

The Image Adjust tab enables you to define the specific attributes listed for optimal picture quality based on the requirements of your application.



Note: In Matrix mode, all four pictures adjust simultaneously.

In Dual/TV Wall mode, each picture can adjust individual and support individual last memory feature.



Output Resolution

To access the **Output Resolution** tab, click **Output Resolution** on the side menu.

The **Output Resolution** tab enables you to set your desired output resolution from the available drop down menu.

Image Adjust Output Resolution Windows Setup OSD Settings Window Convert	Information-In DN1 :NO SIGNAL DN2 :NO SIGNAL DN3 :NO SIGNAL DN3 :NO SIGNAL DN4 : 1000P60	Information Out OUT : NATIVE Window Mode : Window A	Status Power: ON OFF CR11Frees Input 2 CR12Frees Input 2 CR13Frees Input 3 CR14Frees Input 4	Source Window A • CH • From Input 4 • Andie From CH 4 • Mate: ON OFF	Save/Factory Save : Cancel • Factory Default
Chromakey Setup Ethernet			Resolution		
		_			

Notes:

- 1080i@50/60 are supported in Matrix mode only.
- Selecting NATIVE enables the VS424HDPIP to use EDID to determine the best output
 resolution automatically.

OSD Settings

To access the OSD settings tab, click OSD Settings on the side menu.

The **OSD settings** tab enables you to adjust the specified attributes in relation to the On the Screen display positioning and operation.

Image Adjust Output Resolution Windows Settup OSD Settings Window Convert	Information-In N1 : N0 \$30NAL IN2 : N0 \$30NAL IN3 : N0 \$30NAL IN4 : 1000960	Information-Out OUT : NATIVE Window Mode : Window A	Status Power: ON OFF CR I Free lapet 4 CR 2 Free lapet 2 CR 1 Free lapet 3 CR 4 Free lapet 4	Source Window Mole : Window A • CH • From Input 4 • Andre From CH 4 • Mute : ON OFF	Save:Factory Save: Cancel Factory Default
Chronakry Sotop Edvenset		(GD) Info Dy H Offs V Offs Timeco Gua	a:	5	
ruction Manua	al			Sta	arTechcom

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Note: TIMEOUT = OFF means MENU and INFO will continue showing on the

Screen.

Window Convert

To access the Window Convert tab, click Window Convert on the side menu.

The **Window Convert** tab enables you to implement transition effects while switching between video sources.

Image Adjust Output Resolution Windows Setup OSD Settings Window Convert	Information-In DN: :NO SIGNAL DN: NO SIGNAL DN: NO SIGNAL DN: NO SIGNAL	Information-Out OUT : NATIVE Window Mode : Window A	Status ON OFF Pener: ON OFF CH1From lapt 2 CH2From lapt 2 CH3From lapt 3 CH4From lapt 4	Source Window Midoe : Window A • CR 1 • Free Input 4 • Andro Frees CR 4 • Mark : ON OFF	Save/Factory Site: Cancel • Factory Default
Chromikey Setup Ethernet		Woodd Marwer Fashe In- Rotation	Out : OFF •		

Chromakey Setup

To access the **Chromakey Setup** tab, click **Chromakey setup** on the side menu.

The Chromakey Setup section enables you to isolate a particular color for chroma keying special effects.

Image Adjust Output Resolution Windows Setup OSD Settings	Information-In INI : NO SIGNAL INI : NO SIGNAL INI : NO SIGNAL INI : NO SIGNAL	Information-Out OUT : NATIVE Window Mode : Window A	Status ON OFF CH 1 From Input 4 CH 2 From Input 2 CH 3 From Input 3 CH 4 From Input 4	Source Window Mode : Window A • CH 1 • From Input 4 • Audio From CH 4 • Mate : ON OFF	Save/Factory Save : Cancel • Factory Default
Window Convert Chronadory Setup Ethernet		Minimur Maximur Minimur	m For R : 15 • n For G : 00 •		
		Maximu Minimur Maximu Switch :	n For B : 00 • m For B : 15 •		



Ethernet

To access the **Ethernet** tab, click **Ethernet** on the side menu.

The **Ethernet** section enables you to define Network communication protocols for remote operation.

Image Adjust	Information-In	Information-Out	Status	Source	Save/Factory
Output Resolution	INI : NO SIGNAL INI : NO SIGNAL	OUT : NATIVE	Power: ON OFF	Window Mode : Window A 🔹	Save: Cancel •
Windows Setup	ING ING SIGNAL	Window Mode : Window A	CH 1 From Input 4 CH 2 From Input 2	CH 1 • From Input 4 • Audio From CH 4 •	
OSD Settings	IN4 : NO SIGNAL		CH 3 From Input 3 CH 4 From Input 4	Audio From CH 4 • Mate: ON OFF	Factory Default
Window Convert					
Chromakey Setup					
Ethemet					
			Ethernet		
		2	DHCP		
		IF	Address : 192.168.208.133		
		N	etmask : 255 255 255 0	Save Changes	
		G	ateway : 192.168.208.1		
		Т	elnet Timeout : OFF ·		
		_			



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