

## DRAG & DROP CROSS MULTI-VIEW VIDEO WALL & MATRIX SWITCH



VW8736 (7U), VW7272 (12U)



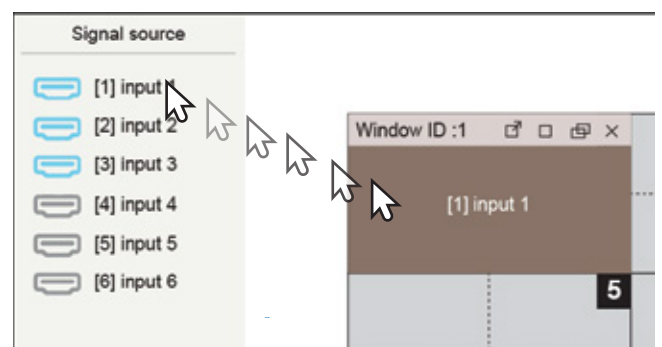
VW8208 (2U), VW8316 (3U)

NEXIS Video Wall & Matrix switch includes seamless switching that employs a FPGA matrix architecture and support Drag & Drop Windows, Cross Screen, PIP and Dual View

### DRAG & DROP, PROFILE SETUP

#### What you see is what you get

- > Real seamless switching just Drag & Drop video source
- > Create Profiles & save into Controller or PC support
- > Save & Recall Profiles support



### FLEXIBLE, STABLE & RELIABLE

#### Hardware base Modular Design

- > Modular Design – User can choose 4, 8, 12 until 72 ports according to requirement.
- > Support video signal splicing, scaling, overlapping and roaming over video wall
- > Redundant hot swap power supply option (VW8736/VW81272 only)

# ADVANCE DISPLAY LAYOUT

## Cross screen, PIP, Dual View

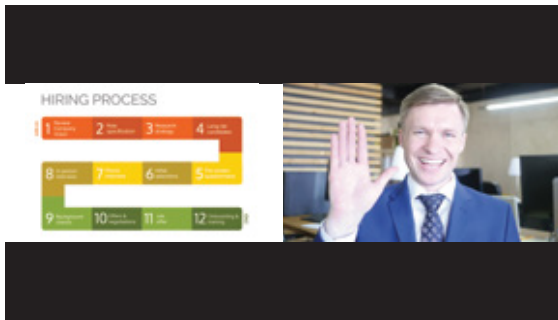
FLEXIBLE LAYOUT



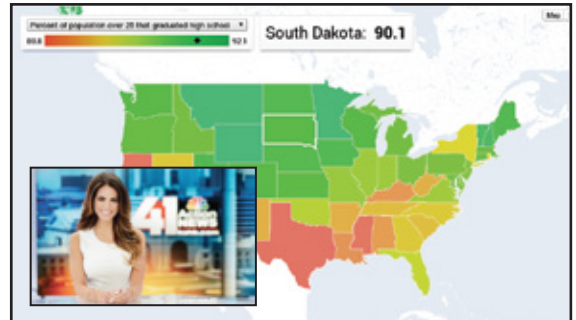
CROSS SCREEN



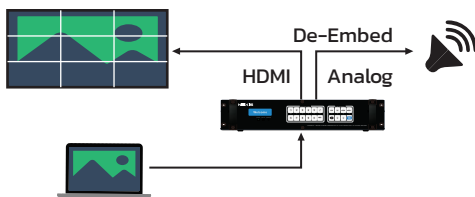
DUAL VIEW



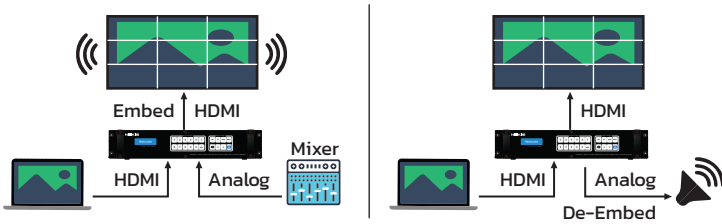
PIP



Output Card



Input Card



### COMBINE & SEPARATE AUDIO\*

## No Extra Cost for Embed / De-Embed

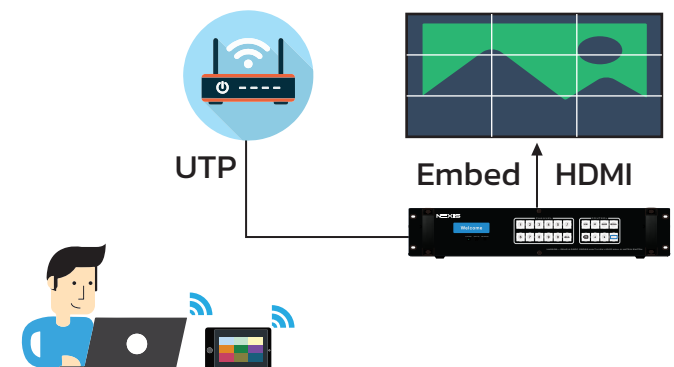
(\*support only for some input/output board)

- › Each HDMI output can be separately muted audio
- › Each CH on Output card support audio de-embedded
- › Each CH on Input card support audio embedded and de-embedded
- › Video/Audio synchronized switching & auto delay for audio

### FLEXIBLE CONTROL

## Multiple Control Method

- › PC Control Software
- › Support control via Web Browser on PC, Mobile, Android Tablet and iOS Device



## GENERAL FEATURES

- › FPGA Processor
- › Seamless matrix switching
- › Front Panel Button (VW8208/VW8316 only)
- › Support Up to 36 displays splicing
- › Support DVI I.O protocol & compatible with HDCP 1.3/HDMI 1.3a
- › Preview card supports video signal preview and switching function (Optional)
- › Max. 8 In/8 Out (2U Rack), 16 In/16 Out (3U Rack), 36 In/36 Out (7U Rack) & 72 In/72 Out (12U Rack)
- › In/Out Max. Resolution : 1920x1200@60Hz/4K@30Hz\*
- › Support EDID read & management by PC software
- › PC Software control via Ethernet, RS232/485
- › 3rd party Central controller support via RS232/485
- › Intelligent fan cooling management
- › Support firmware update

Note : \*VW7842/VW8842 only

## Chassis Specifications

Model	VW8208	VW8316	VW8736	VW81272	VW8144144
<b>Specifications</b>					
<b>Interface</b>					
Number of input boards/input channels	2/8	4/16	9/36	18/72	36/144
Number of output boards/output channels	2/8	4/16	9/36	18/72	36/144
Supported input board type	VW7804; VW7604; VW7514; VW7104; VW7704; VW7404 (Next Page)				
Supported stitching output board type	VW8804; VW8604; VW8514; VW8704 (Next Page)				
Interface bandwidth	6.75Gbps				
<b>Serial port control</b>					
Serial control interface	RS-232, 9 pin female D type interface and 9 pin male D type interface				
Baud rate and protocol	Baud rate: 9600-19200, data bits: 8 bits, stop bits: 1 bit, Parity: No				
Serial control interface structure	9 pin female D type interface : 2 = TX, 3 = RX, 5 = GND; 9 pin male D type interface : 2 = RX, 3 = TX, 5 = GND				
<b>KEYBOARD control interface</b>					
Keyboard control interface	Four-way 3.8mm phoenix interface				
Operation method	To use with extended keyboard MCP100				
Keyboard control interface structure	+5V=DC5V , + = DATA+, -=DATA- GND = signal ground				
<b>Ethernet control</b>					
Ethernet control interface	RJ-45 female interface				
Ethernet control protocol	TCP/IP				
Ethernet control speed rate	Adaptive 10M / 100M, full-duplex or half-duplex				
<b>Specifications</b>					
System power	100VAC ~ 240VAC, 50/60 Hz, International adaptive power				
Storage, work temperature	0 ~ +50°C				
Storage, work humidity	20% ~ 70%				
Chassis size	2U	3U	7U	12U	24U
Product weight ( without boards)	About 5Kg	About 7Kg	About 16Kg	About 29Kg	About 80Kg
Full power ( without boards)	About 18W		About 30W		About 70W
Size	445x400x88	445x400x132	445x400x310	445x400x532	483x400x1043
Mean time between failures	30,000 hours				


# I/O & Control Board Module Specifications

## INPUT Board


## OUTPUT Board

## Control/Preview Board


VW7804

HDMI 	
Protocol	HDMI1.3a, HDCP1.3, DVI1.0
Physical Connector	HDMI Type A INPUT
Resolution	1920x1200@60Hz
Audio	HDMI/4 CH 3.5mm audio In/Out
Max. Data Rate	6.75Gbps (2.25Gbps per color)
EDID	Default & Reading function


VW7604

DVI 	
Protocol	DVI1.0
Physical Connector	DVI-D INPUT
Resolution	1920x1200@60Hz
Audio	4 CH 3.5mm audio input
Bandwidth	6.75Gbps (2.25Gbps per color)
EDID	Default & Reading function


VW7104

VGA 	
Protocol	VGA
Physical Connector	DB15 INPUT
Resolution	1920x1200@60Hz
Audio	4 CH 3.5mm audio input
Bandwidth	150MHz @ -3dB
Gain	0dB


VW7704

Fiber 	
Interface	SC Connector
Fiber type	Multi mode/Single mode (optional)
Resolution	1920x1200@60Hz
Bandwidth	Forward 6.75 Gbps, Reverse 3.125 Gbps
Distance	<300m/2~20km. (Single mode)


VW8804

HDMI 	
Protocol	HDMI1.3a, HDCP1.3, DVI1.0
Physical Connector	HDMI Type A OUTPUT
Resolution	1920x1200@60Hz
Audio	HDMI/4 CH 3.5mm Output
Max. Data Rate	6.75Gbps (2.25Gbps per color)


VW8604

DVI 	
Protocol	DVI1.0
Physical Connector	DVI-I OUTPUT
Resolution	1920x1200@60Hz
Audio	4 CH 3.5mm Output
Bandwidth	2.25Gbps all digital/350Mhz analog


VW8704

Fiber 	
Interface	SC Connector
Fiber type	Multi mode/Single mode (optional)
Resolution	1920x1200@60Hz
Bandwidth	Forward 6.75 Gbps, Reverse 3.125 Gbps
Distance	<300m/2~20km. (Single mode)


VW-CTN04

Control board 	
Function	Control Connection
Physical Connector	RJ45, 1x RS232 IN, 1x RS232 OUT, 4 pin pheonix for Keyboard


VW7842

HDMI 	
Protocol	HDMI1.4a, HDCP1.3, DVI1.0
Physical Connector	HDMI Type A INPUT
Resolution	4K@30Hz
Audio	HDMI/2 CH 3.5mm audio input
Max. Data Rate	13.5Gbps (4.5Gbps per color)
EDID	Default & Reading function


VW7514

HDBT 	
Standard	HDBaseT
Physical Connector	RJ45 INPUT
Resolution	1920x1200@60Hz
RS232/IR	4 way 6 pin pheonix base
Max. Data Rate	6.75Gbps (2.25Gbps per color)
EDID	Default EDID


VW7404

SDI 	
Protocol	HD-SDI, SD-SDI
Physical Connector	BNC (IN & Loop out per CH)
Resolution	1920x1080@60Hz
Audio	SDI Embedded audio
Pixel Bandwidth	2.970Gb/s, 1.485Gb/s, 270Mb/s


VW7002

IP 	
Protocol	RTP, RTSP, TCP, UDP
Physical Connector	2 Input RJ45 INPUT
Resolution	1920x1200@60Hz
Compression	H.264
Network Bandwidth	100Mbps
Max. Delay Time	100ms


VW8842

HDMI 	
Protocol	HDMI1.4a, HDCP1.3, DVI1.0
Physical Connector	HDMI Type A OUTPUT
Resolution	4K@30Hz
Audio	HDMI or 4 way 3.5mm input
Max. Data Rate	13.5Gbps (4.5Gbps per color)


VW8514

HDBT 	
Standard	HDbaseT
Physical Connector	RJ45 OUTPUT
Resolution	1920x1200@60Hz
RS232/IR	4 way 6 pin pheonix base
Max. Data Rate	6.75Gbps (2.25Gbps per color)
Distance	100m (1600x1200@60)

VW-PVW04

Preview board 	
Function	Preview Video output
Physical Connector	RJ45
Max. Preview	4 CH Video Preview
Max. Resolution	1280x720@30fps

VW-CTN05

Advance Control board 	
Function	Support Controlled Programming
Physical Connector	RJ45, 2x RS232/RS422/RS485, 4 pin pheonix for Keyboard, 3 pin pheonix for RS232