# High-End

Video Wall Controller



MULTIPLE LAYERS FPGA VIDEOWALL CONTROLLER





### Hardware Based Design

High performance video processing equipment with hardware architecture design.

- ★ No more computer high-end specification.
- No more high-end Graphic Processing Unit (GPU Card).
- No more licenses.
- ★ No more blue-screen OS crash.
- 🖈 No more viruses and black screen.
- 🖈 No more ransomwares, lost data.

### **FPGA Dedicated Chipset**

Dedicated Field Programmable Gate Array (FPGA – Tritium $^{\rm m}$  2<sup>nd</sup>gen – 2280 Gbps) chipset is a combination of processing unit that dedicated in video signal.

This eliminated the limitation of a CPU or a GPU from conventional Software or PC controller. The unit supports 24/7 working time with over 60,000 hours MTBF.

Without the use of PCI – Express card, the unit can work flawlessly when adding or editing the total layout of the videowall set up. As each of the FPGA chip is working independently, user can replace or add new input / output card without turning off the whole chassis.





### Module design with Hot Swap

Multiple form of connections for client to custom fit their system.

Client can now combine HDMI - DVI - VGA - HDBaseT - IP Streaming in one total solution, maximizing system integration for IT Rack (19").

Reduce the total cost of investment in both pre & post phase of expansion. Chassis also support control multiple videowalls, further simplify the complexity of connections and management.

## **Features**

- High-end 4 up to \*8 Layers MPiP™ Cross Screen
  - Support 4 Layers MPiP™, up to \*8 Layers-Matrix Picture in Picture (MPiP™) in each screen
- Easy control with Drag & Drop
   Customize complex layout with simple Click Drag Drop
- High-end Video Wall Control
   Support Overlap, Roaming, Stretching, Zoom in / out.
- Front Panel Touch Screen

Control scene mode, save / recall profile (up to 32), IP setting with just a touch

- IP Camera Direct Stream (iDirect Stream™)
   IP input Card can support streaming video feed direct from IP CCTV Cameras.
- Background Image Scrolling Text Scheduling
   Support Static Background Image and Scrolling Text for Bank and Stock house Video Wall
   Support scene mode Scheduling Cycle for advertising digital signage Video Wall
- WEB GUI control (Opt)

Control the video wall controller directly from TCP/IP without the need of installing any software







## ACVW4-0404

# VIDEO WALL CONTROLLER 04 x 04 Cross Screens Video Wall

#### **FEATURES**

- Pure Hardware Structure FPGA
- Modular Design Hot swap
- Seamless Switching Auto EDID 5ms
- Bezel Compensation with Scaler
- Multiple users / rights management
- Character Superimposition, Scrolling Text (opt)
- Ultra HD Background Image (opt)
- Multiple video wall management up to 4
- Signal preview WEB GUI control (opt)
- Support Redundant Power Supply (opt)
- Control Room Mode with over IP KVM system extension
- High-end 4 Layer up to \*8 Layers MPiP<sup>TM</sup>



\*All Pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

#### **SPECIFICATION**

Start up time	10s
Switching time	5ms
Chassis size (mm)	2.5U   440 x 350 x 112
Max Data Rate	15.2 Gbps (3.8Gbps per Lane)
Input Interface Port	Max 4 port
Output Interface Port	Max 4 port
Interface Support	VGA / CVBS /YPbPR / SDI / IP
(Input / Output)	HDBaseT/DVI/DP/HDMI/Fiber
Total number of	$256$ channel $4\mathrm{K}$ $/$ $512$ channel $1080\mathrm{p}$
Input / Output channel	with Smart Management Grouping
Control	Over IP / RS-232 / Touchscreen

Control	Over IP / RS-232 / Touchscreen
	RS-232 out / Web GUI (OPT)
HDMI version	1.3 - Support 3D , Deep Color
HDCP version	1.4 / 2.0 / 2.2
Distant support	18-300m with AOC cables / Extenders
Resolution Input / Output	1280 x 720 @ 120Hz
(8 Bit RGBA color)	1920 x 1080 @ 60Hz
	1920 x 1200 @ 60Hz
	- 1:1 / -1: / / / / / / / / / / / / / / / / / / /

Software Language English / Chinese / Vietnamese other language available on request

Processing chipset	FPGA - Tritium <sup>TM</sup> 2 <sup>nd</sup> gen
Screen layer	4 Layers - *Up to 8 Layers MPiP™
Hot-swap   EDID	Support   Auto EDID
Power supply	Main - Support Redundant (OPT)
Preview signal	Support Preview card- (OPT)
Interface link	Analog - Digital - IP Stream
Output restriction	Support all type of display
	(Screens / Projectors / DLP / LED)
Mobile Control	Support iOS & Android
One click ON/OFF	Support
Pixel Clock	225 Mhz
HDMI impendance	100 $\Omega$ - ESD Protection
Power Rating	100-240 VAC; 50/60Hz
Power Consumption	100 - 450 W
Fan Airflow	55 - 65 cfm (12VDC)
Operating Temperature	-15 ~ 65°C
Storage Temperature	-30 ~ 75°C
Storage / Operating	5~95% RH / 10-90% RH
Humidity	(without condensation)

<sup>\*8</sup> Layers MPiP™ configuration will allocate double output video bandwidth on each port, the total number of output operational ports will be reduced in half.



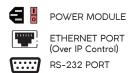
# ACVW4-0404

# VIDEO WALL CONTROLLER 04 x 04 Cross Screens Video Wall



ACVW4-O4O4: 2.5U chassis





ACVW4-0404	
INPUT PORT	4
OUTPUT PORT	4

