

High-End

Video Wall Controller



ACVM 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.

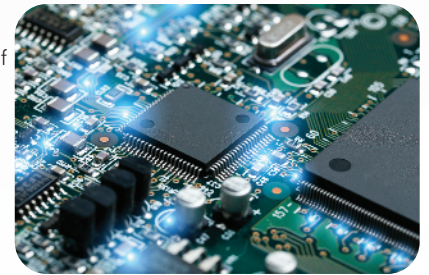


FPGA Dedicated Chipset

Dedicated Field Programmable Gate Array (FPGA - Tritium™ 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 2 Layers MPiP™ - Cross Screen

Support up to 2 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

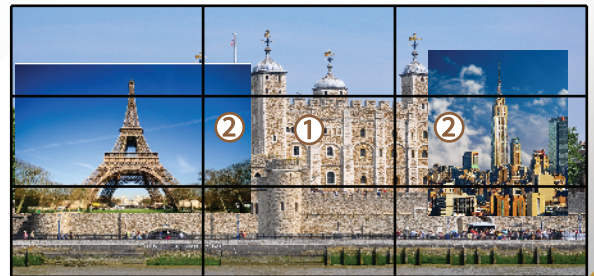
Control scene mode, save / recall profile (up to 30), IP setting with just a touch

● 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



VIDEO WALL CONTROLLER - ACVM 04 x 12 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)
- Multiple video wall management
- Signal preview (opt)
- Mobile apps Support
- RS-232 in / out support
- Easy manage with TCP/IP
- Control Room Mode with over IP KVM system extension



SPECIFICATION

Start up time	10s
Switching time	5ms
Chassis size (mm)	1.5U
Max Data Rate	15.2 Gbps (3.8Gbps per Lane)
Input Interface Port	4
Output Interface Port	12
Interface Support (Input / Output)	HDMI
Total number of Input / Output channel	256 channel 4K / 512 channel 1080p with Smart Management Grouping

Control	Over IP / RS-232
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 (8 Bit RGBA color)	1280 x 720 @ 120Hz 1920 x 1080 @ 60Hz 1920 x 1200 @ 60Hz

Processing chipset	FPGA - Tritium™ gen
Screen layer	Multiple - 2 Layers MPiP™
Hot-swap EDID	Support Auto EDID
Power supply	Main - Support Redundant (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 impedance	100 Ω - ESD Protection
Power Rating	100-240 VAC; 50/60Hz
Power Consumption	100 - 450 W
Fan Airflow	55 - 65 cfm (12VDC)
Operating Temperature	-20 ~ 70°C
Storage Temperature	10 ~ 90°C
Storage / Operating Humidity	5~95% RH (without condensation)



VIDEO WALL CONTROLLER - ACVM
04 x 12 Cross Screens Video Wall

CONNECTION
DIAGRAM

INPUT

OUTPUT

