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[™] 2ndgen - 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 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 up to *4 Layers MPiP[™] Cross Screen Support 2 Layers MPiP[™], up to *4 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.
- 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



ACV2-0812A

VIDEO WALL CONTROLLER - ACV2 08 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 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 2 Layer up to *4 Layers MPiP[™]

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	8
Output Interface Port	12
Interface Support	HDMI
(Input / Output)	
Total number of	256 channel 4K / 512 channel 1080p
Input / Output channel	with Smart Management Grouping

	Control	Over IP / RS-232 / 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



Processing chipset	FPGA - Tritium [™] 2 nd gen
Screen layer	2 Layers - *Up to 4 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 impendance	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	5~95% RH
Humidity	(without condensation)
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*4 Layers MPiP[™] configuration will allocate double output video bandwidth on each port, the total number of output operational ports will be reduced in half.





VIDEO WALL CONTROLLER - ACV2 08 x 12 Cross Screens Video Wall

