High-End

Video Wall Controller

ACVM FPGA VIDEOWALL CONTROLLER

ANGUSTOS

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.
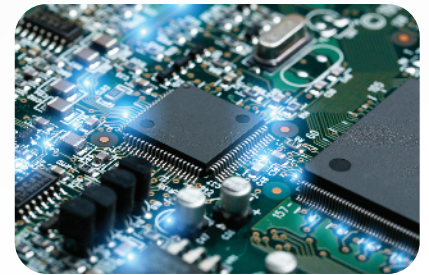
Module design with Hot Swap

Multiple form of connections for client to custom fit their system. Client can now combine HDMI – DVI – 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 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

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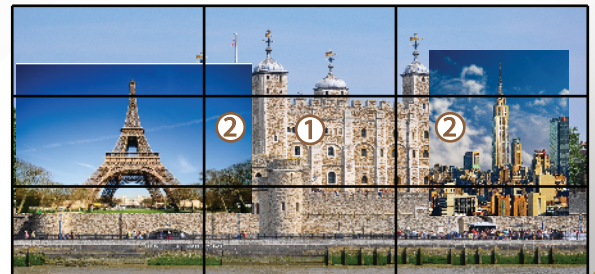
ACVM-0412

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 - 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	Processing chipset	FPGA - Tritium™ 2nd gen
Switching time	5ms	Screen layer	2 Layers - *Up to 4 Layers MPiP™
Chassis size (mm)	1.5U	Hot-swap | EDID	Support | Auto EDID
Max Data Rate	15.2 Gbps (3.8Gbps per Lane)	Power supply	Main - Support Redundant (OPT)
Input Interface Port	4		
Output Interface Port	12	Interface link	Analog - Digital - IP Stream
Interface Support (Input / Output)	HDMI	Output restriction	Support all type of display (Screens / Projectors / DLP / LED)
Total number of Input / Output channel	256 channel 4K / 512 channel 1080p with Smart Management Grouping	Mobile Control	Support iOS & Android
		One click ON/OFF	Support

Control	Over IP / RS-232 / WEB GUI (OPT)	Pixel Clock	225 Mhz
		HDMI impendance	100 Ω - ESD Protection
HDMI version	1.3 - Support 3D , Deep Color	Power Rating	100-240 VAC; 50/60Hz
HDCP version	1.4 / 2.0 / 2.2	Power Consumption	100 - 450 W
Distant support	18-300m with AOC cables / Extenders	Fan Airflow	55 - 65 cfm (12VDC)
Resolution Input / Output (8 Bit RGBA color)	1280 x 720 @ 120Hz 1920 x 1080 @ 60Hz 1920 x 1200 @ 60Hz	Operating Temperature	-20 ~ 70ºC
		Storage Temperature	10 ~ 90ºC
		Storage / Operating Humidity	5~95% RH (without condensation)

*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.

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

CONNECTION DIAGRAM

INPUT

OUTPUT

HDMI — PC

HDMI — Recorder

HDMI — Laptop

HDMI — Ip CCTV

HDMI — DVD

CONTROL

RS-232 — PC

RJ-45 — Laptop

TCP/IP — Tablet

TCP/IP — Mobile

HDMI — Videowall

HDMI — Videowall

HDMI — Videowall