# High-End

## Video Wall Controller

ANGUSTOS

## 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.
- **Support up to 152 input x 144 output (20U Chassis)**

## FPGA Dedicated Chipset

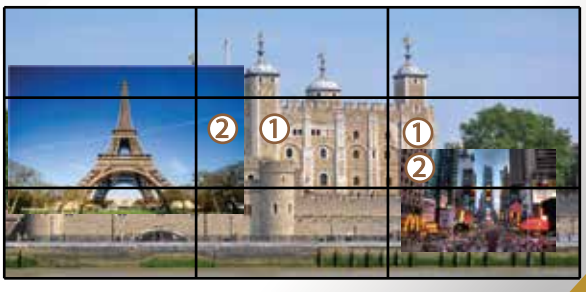
Dedicated Field Programmable Gate Arrray (FPGA) chipset is a combination of processing unit that dedicated in video processing. This eliminated the limitation of a CPU or a GPU from conventional Software or PC controller.

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 intergration.

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 Multi 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, 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

ANGUSTOS

ACVW4-164144

# VIDEO WALL CONTROLLER
# 164 x 144 Cross Screens Video Wall

## Features

- Pure Hardware Structure - FPGA
- Modular Design
- Seamless Switching
- Bezel Compensation
- Scrolling Text
- Character Superimposition
- Ultra HD Background Image
- Multiple video wall management
- Signal preview(Optional)
- Support Redundant Power Supply

## SPECIFICATION

| | |
|---|---|
| Start up time | 10s |
| Switching time | 5ms |
| Chassis size (mm) | 20U \| 440 x 400 x 890 mm |
| Max Data Rate | 15.2 Gbps (3.8Gbps per Lane) |
| Input Interface Port | 4 - 164 |
| Output Interface Port | 4 - 144 |
| Interface Support (Input / Output) | VGA / CVBS /YPbPR / SDI / IP HDBaseT/DVI/DP/HDMI/Fiber |
| Total number of Input / Output channel | 256 channel 4K / 512 channel 1080p with Smart Management Grouping |
| Control | Over IP / RS-232 / Touchscreen RS-232 out / WEB GUI (OPT) |
| HDMI version | 1.3 - 3D, Deep Color/ 2.0 with 4K cards* |
| 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<br>1920 x 1080 @ 60Hz<br>1920 x 1200 @ 60Hz<br>4092 x 2160 @ 30Hz |
| Software Language | English / Chinese / Vietnamese<br>*other language available on request* |

| | |
|---|---|
| Processing chipset | FPGA - Tritium™ 2nd gen |
| Screen layer | 2 Layers - *Up to 4 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 Ω - ESD Protection |
| Power Rating | 100-240 VAC; 50/60Hz |
| Power Consumption | 100 - 450W \| Max : 1500W |
| Fan Airflow | 55 - 65 cfm (12VDC) |
| Operating Temperature | -15 ~ 65°C |
| Storage Temperature | -30 ~ 75°C |
| Storage / Operating Humidity | 5~95% RH /10~90% RH (without condensation) |

**8 Layers MPiP™ configuration will allocate double output video bandwidth on each port, the total number of output operational ports will be reduced in half.*
**HDMI 2.0 is supported when connect to 4K HDMI / 4K DP input and output cards.*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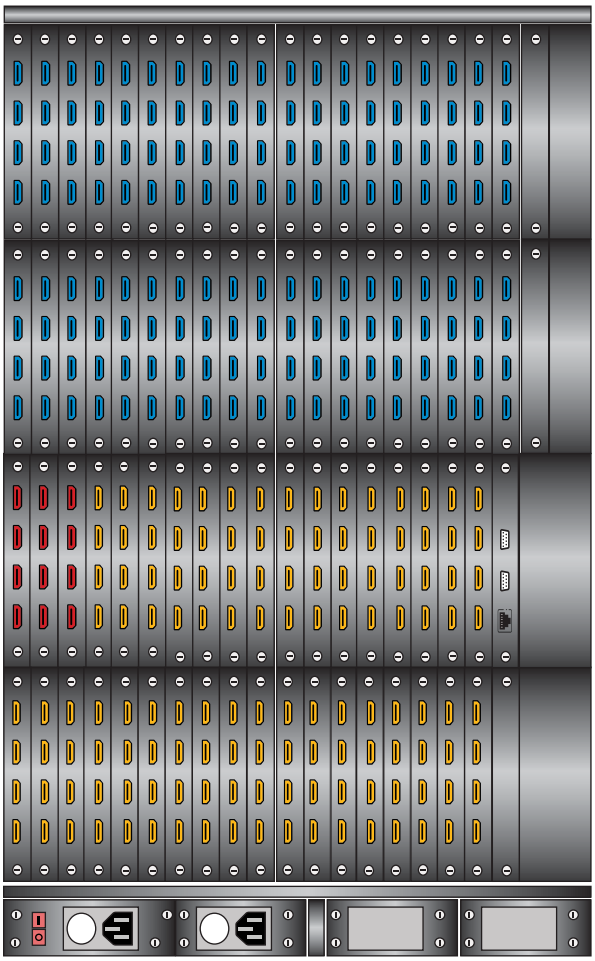
ACVW4-164144

# VIDEO WALL CONTROLLER
# 164 x 144 Cross Screens Video Wall

## HYBRID I/O SLOT

Advance FPGA chip allow Angustos Video Wall Controller chassis to set up flexible input / output slot.
Hybrid I/O Slot can be both Input or Output slot




INPUT PORT


OUTPUT PORT

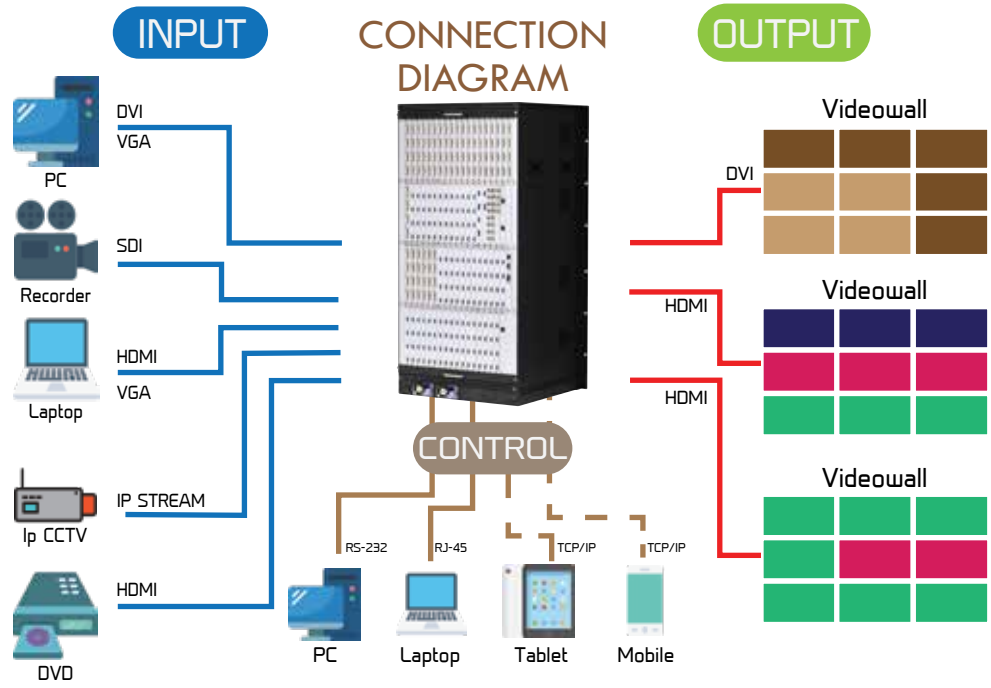

HYBRID I/O PORT


POWER MODULE


ETHERNET PORT


RS-232 PORT

| ACVW20-152144 | MAX INPUT | MAX OUTPUT |
|---|---|---|
| INPUT PORT | 164 | 152 |
| OUTPUT PORT | 132 | 144 |



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