

MediaWall®



The World's *First* True UHD
Video Wall Display Processor





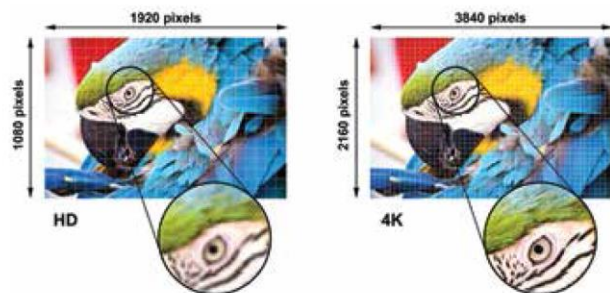
Display Video, Run Apps, And Decode IP At 4K Resolution

The new MediaWall® V is the world's first true 4K/UHD video wall processor, offering up to 4K resolution I/O, single wire connectivity and fully scalable windows.

The MediaWall V display processor features an architecture that combines the real-time processing and reliability of a hardware-based processor with the flexibility of a separate processor to run applications. Add in video over IP decoding, enhanced security and an intuitive, easy-to-operate control interface. The result is a 4K wall processing system with unsurpassed power, security, and versatility.

A true video wall is more than a wall of monitors. Rather, it is a continuous multi-screen surface upon which to display graphics and video imagery, seamlessly and with synchronization in fully scalable windows that can be positioned anywhere on the wall, including across monitor bezels.

With a MediaWall V processor, you can display ultra high-resolution 4K video and graphics together with HD sources on a wall array of 2K/HD or 4K/UHD display devices. A 4K/UHD video wall offers dramatically higher pixel density, up to 4x more total resolution than a conventional HD video wall of similar size. The MediaWall V processor's 4K capabilities enable the display of data and visuals in greater detail than ever before – improving situational awareness, assessment and response.



High Performance Video Processing

The MediaWall V processor can display any configuration of window layouts across a multi-screen array. Windows can be sized as required anywhere, within or across screen boundaries, in any aspect ratio and zoomed in to emphasize details. Signal switching and preset layout recall are fast and seamless.

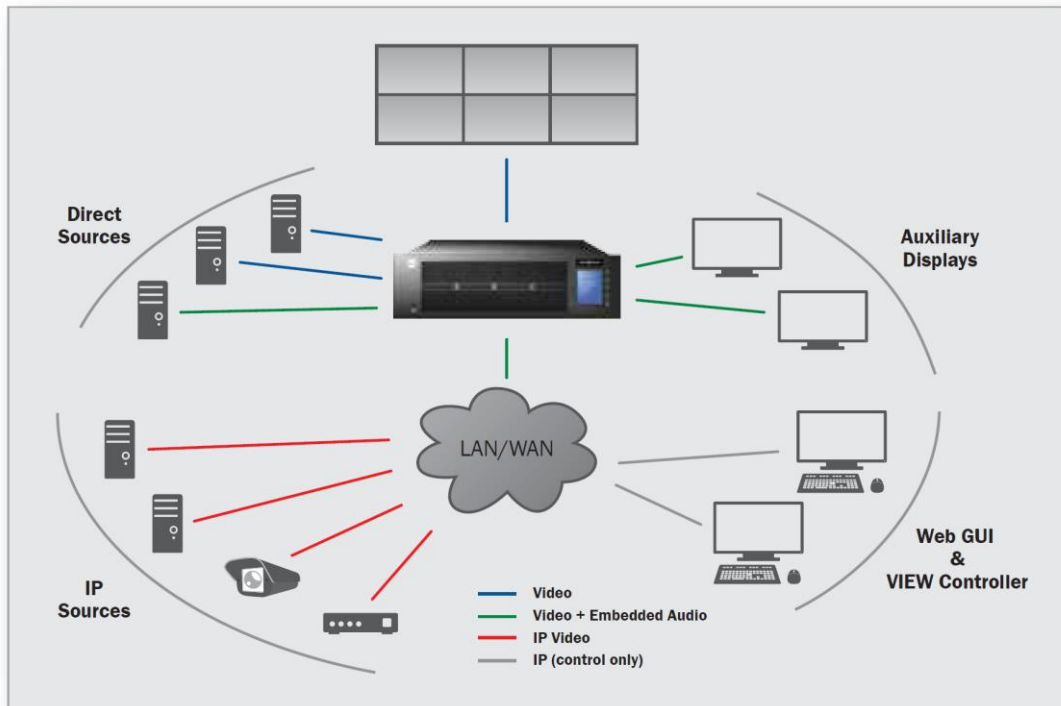
A purpose-built architecture dedicates processing resources for each input. Each is displayed in real-time at full color, frame and pixel rates, without common video wall artifacts such as dropped frames or image tearing. The result is superb performance and an enhanced visual experience.

The MediaWall V's application processor supports the decoding and display of IP camera and other H.264 streams as well as Windows® applications. A hybrid architecture, with two separate processing subsystems, isolates video wall processing functions from application processing, allowing the wall display to operate continuously even in the event that the second processor is compromised by problems like malware or software failure.

HDCP capability allows protected content, such as the output of a Blu-ray player, to be displayed on the video wall.

MediaWall Topology

The MediaWall processor accepts direct video feeds from computers, cameras and other sources via HDMI single-wire interfaces or as IP streams over Ethernet, at up to 4K resolution. It outputs processed video to the video wall, also over HDMI single-wire interfaces, at up to 4K resolution. Auxiliary video output ports support switched video to additional displays and audio processors. Control is via Ethernet.



Control Options

The MediaWall V processor offers a range of control options. The web-based set-up GUI supports both local and remote access, "drag and drop" window positioning and scaling, wall layout presets, and input selection. In addition, the newly introduced VIEW™ Controller adds a graphically-enhanced user interface with live thumbnails, providing operators with a very intuitive user interface. The processor can also be controlled by a variety of third-party devices.

For the most demanding applications, the MediaWall V processor is compatible with RGB Spectrum's MultiPoint® Control Room Management System (Enterprise MCMS™) — an innovative hardware and software platform that provides operators with arbitrated keyboard and mouse (KVM) control over system resources.

Enterprise MCMS is ideal for use in mission-critical control room applications such as command centers, debriefing centers, security operations centers (SOCs), emergency operations centers (EOCs), industrial/process control and SCADA system monitoring. The system's unique design isolates critical systems from the network, effectively protecting sensitive data from external tampering, malware and viruses.



VIEW™ Controller
Operation and control
with live thumbnails



Powerful Capabilities In the Control Room And Beyond

A MediaWall V processor has the ability to power a video wall plus auxiliary monitors or even multiple video walls, making it suitable for the most sophisticated audio-visual environments.

When used with projectors, the processor provides adjustable overlaps for edge-blending to enable immersive, seamless UHD displays that span entire rooms - ideal for museums, theatres, auditoriums and a range of other venues.

There has never been so capable a video wall processor. With 4K/UHD resolutions fully supported, the MediaWall V processor is ideal for graphically rich applications like simulation & training, modeling, and high-resolution video surveillance.



COLLABORATE *with your team*

- Connect multiple users
- Display visuals and data
- Control with a computer



VISUALIZE *your data*

- Decode IP streams
- Run applications directly on the video wall
- Display visuals, any size, anywhere



CONTROL *your world*

- Utilize encrypted IP video + KVM control
- Arbitrate use of system resources
- Work with remote operations

Additional Features

- Mullion / bezel compensation
- Up to 60 wall layout presets
- HDCP copy protection compliant
- Up to 6 displayed clocks
- Foreground graphics
- Image overlap for edge blending
- Auxiliary switched outputs
- Borders and labels

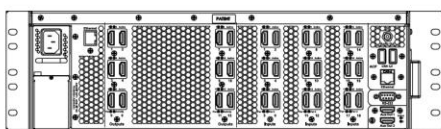
Options

- Application processor for IP stream decodes and Windows® applications
- Up to 3 wall arrays
- Redundant hot swappable power supply
- VIEW™ Controller

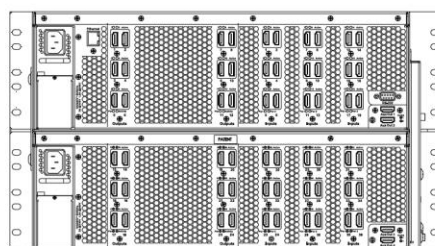
Specifications

	Model 500	Model 550
Inputs		
Number (max)	18	36
Resolution	640x480 @ 85Hz to UHD 3840x2160 @ 30Hz & 4096x2160 @ 24Hz	640x480 @ 85Hz to UHD 3840x2160 @ 30Hz & 4096x2160 @ 24Hz
Connector Type	HDMI 1.4b	HDMI 1.4b
Clock Rate	Up to 330MHz	Up to 330MHz
Color Depth	24-bit	24-bit
Outputs		
Number (max)	12 @ HD/2K, plus 2 auxiliary outputs or 6 @ 4K, plus 2 auxiliary outputs	24 @ HD/2K, plus 4 auxiliary outputs or 12 @ 4K, plus 4 auxiliary outputs
Resolution	Up to 3840x2160 (4K, Ultra HD, UHD) @ 30Hz & 4096x2160 @ 24Hz	Up to 3840x2160 (4K, Ultra HD, UHD) @ 30Hz & 4096x2160 @ 24Hz
Connector Type	HDMI 1.4b	HDMI 1.4b
Display Windows		
Number (max)	32	64
Labels		
Characters per label	Up to 64	Up to 64
Font Styles	50	50
International Fonts	Yes	Yes
Border Color Depth	24-bit	24-bit
Physical		
Cable Management	Strain relief bar	Strain relief bar
Size (h x w x d)	5.25 x 19.0 x 23.0 inches (3RU) 133 x 483 x 584 mm	10.5 x 19.0 x 23.0 inches (6RU) 267 x 483 x 584 mm
Weight	40 lbs / 18 kg	82 lbs / 37 kg
Power Supply	Hot plug 850W, 100 - 240 VAC auto ranging 50/60 Hz	Hot plug 850W, 100 - 240 VAC auto ranging 50/60 Hz
Environmental		
Operating Temperature	+41 to +104 °F (5 to +40 °C)	+41 to +104 °F (5 to +40 °C)
Storage Temperature	-4 to +158 °F (-20 to +70 °C)	-4 to +158 °F (-20 to +70 °C)
Operating Humidity	5% to 90% non-condensing	5% to 90% non-condensing
Altitude	Up to 13,123 ft (4000 m) at 104°F (40°C)	Up to 13,123 ft (4000 m) at 104°F (40°C)
Control		
Ethernet 10/100/1000 Base-T, RS-232 Command line and graphical user interface		
Audio		
Auxiliary (AUX) HDMI 1.4b outputs (embedded) & Application Processor (AP) option (analog, 3.5mm mini-jack)		

Specifications subject to change.



Model 500



Model 550



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