MediaWall V

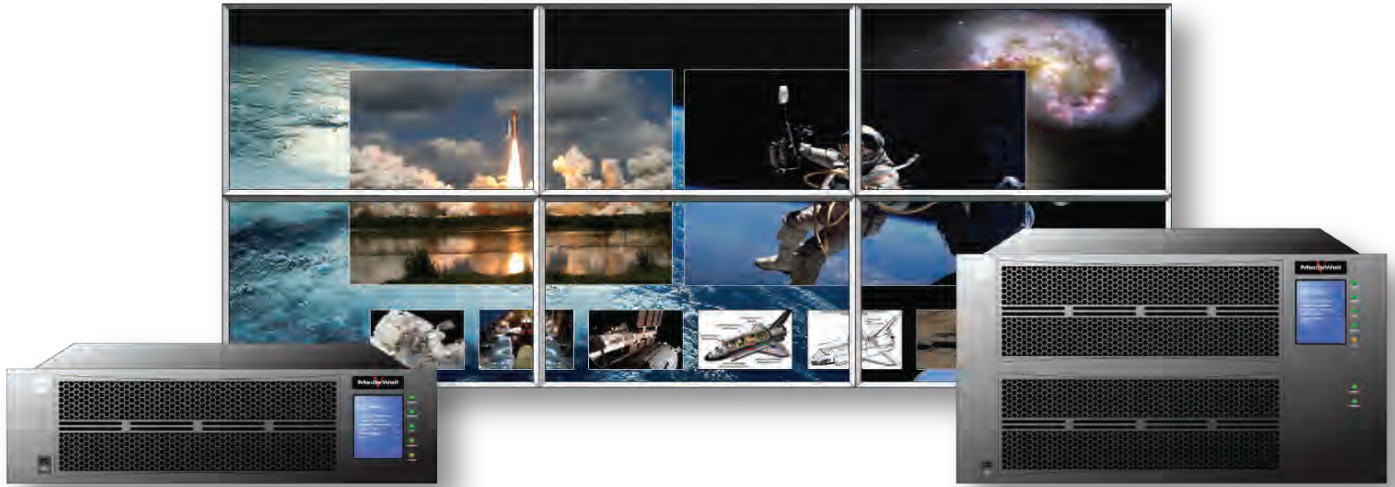## The World's *First* True UHD Video Wall Display Processor

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. MediaWall V supports up to a 12 screen array at 4K UHD output resolution or to a 24 screen array at HD/2K output resolution, with up to 36 video/graphic inputs.

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, dedicated processor to run applications. Add in integrated IP capabilities, extensive user-friendly features, enhanced security and an intuitive, easy-to-operate control interface. The result is a 4K wall processing system with unsurpassed power and versatility.

A true video wall is not simply a wall of monitors; rather, it is a continuous multi-screen surface upon which to display a combination of graphics and video. Not all systems that claim to be 4K wall processors provide video synchronization, required for the seamless display of high-motion graphics, or fully scalable windows, which allow imagery to be displayed anywhere, including across monitor bezels. The MediaWall V processor delivers all of these capabilities.

With a MediaWall V processor, you can display ultra high-resolution 4K video and graphics together with HD sources on a wall array of 4K UHD display devices. A 4K UHD video wall offers dramatically higher pixel density, with up to 4x more total resolution than a conventional HD video wall of similar size. With fewer bezels to interfere with displayed imagery, a video wall made of large 4K monitors further enhances the overall viewing experience. The MediaWall V processor's 4K capabilities enable the display of more data and visuals in greater detail than ever before – improving situational awareness, assessment and response.

The processor also supports standard resolution display devices, while still delivering the benefits of ultra high resolution when 4K input signals are spread across multiple displays.

RGB SPECTRUM®
VISUAL RESOURCE MANAGEMENT™

High Performance Video Processing

The MediaWall V processor supports up to 36 video/graphic direct inputs and up to 28 outputs/display devices. It processes a full range of input and output resolutions: 4K UHD (3840 x 2160), 2K (2048 x 1152/1080), HD (1920 x1080) and others. Inputs are fully scalable, whether for output to a UHD video wall or for display on standard video walls. The processor supports IP decoding and display via an optional Application Processor (AP), which can decode IP cameras and other H.264 streams. In addition, HDCP capability allows protected content, such as the output of a Blu-ray player, to be displayed on a video wall.

The MediaWall V processor can display any configuration of window layouts across a multi-screen array. Windows canbe put anywhere, in any size, 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. This enables the MediaWall V processor to display each input in real-time at full color, frame and pixel rates, without common video wall artifacts like dropped frames or image tearing. The result is superb performance and an enhanced visual experience.

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 application processor is compromised by problems like malware, memory leaks in software, etc.

Control Options

The MediaWall V processor offers a versatile range of control options. The built-in set-up and configuration GUI supports both local and remote access, "drag and drop" window positioning and scaling, wall layout presets, and input selection. Inaddition, our newly introduced VIEWTM Controller adds a graphically-enhanced user interface with live thumbnails to enhance system operation. The processor can also be controlled by a variety of third-party devices.

For the ultimate in flexibility, the MediaWall V processor is compatible with RGB Spectrum's MultiPoint® Control Room Management System (Enterprise MCMSTM) — 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 andSCADA system monitoring. The system's unique design isolates critical systems from the network, effectively protecting sensitive data from external tampering, malware and viruses.

Powerful Capabilities in the Control Room and Beyond

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

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. In addition, when used with 4K projectors, the processor's edge-blending support can generate immersive, whole-room UHD displays for museums, theatres, auditoriums and a range of other venues.
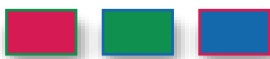
MediaWall V's Leading-Edge Capabilities

- Up to 4K UHD inputs and outputs on a single wire (HDMI 1.4b)
- Up to 36 inputs, 28 outputs & 64 scalable image windows
- Hybrid architecture with a dedicated processor for applications
- Real-time processing with no dropped frames
- Up to 60 preset layouts
- HDCP copy protection fully supported
- Displays live video, applications, and IP decodes
- Up to 3 separate walls per single processor

Specifications

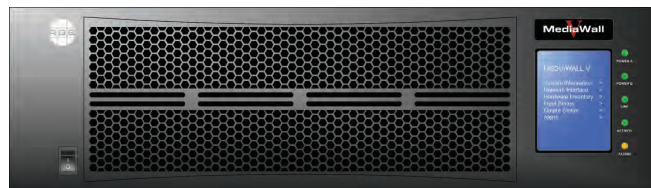|	Model 500	Model 550
Inputs		
Resolution	640×480 @ 85Hz to UHD 3840 x 2160 @ 30Hz & 4096×2160 @ 24Hz	640×480 @ 85Hz to UHD 3840 x 2160 @ 30Hz & 4096×2160 @ 24Hz
Connector Type	HDMI 1.4b	HDMI 1.4b
Clock Rate	Up to 330MHz	Up to 330MHz
Color Depth	24-bit	24-bit
Source Routing	Any source input to any window	Any source input to any window
Outputs		
Number (max)	12 @ HD/2K, plus 2 Auxiliary Outputs 6 @ 4K, plus 2 Auxiliary Outputs	24 @ HD/2K, plus 4 Auxiliary outputs 12@ 4K, plus 4 Auxiliary outputs
Resolution	Up to 3840 x 2160 (4K, Ultra HD, UHD) @ 30Hz & 4096×2160 @ 24Hz	Up to 3840 x 2160 (4K, Ultra HD, UHD) @ 30Hz & 4096×2160 @ 24Hz
Connector Type	HDMI 1.4b	HDMI 1.4b
Display Windows		
Number	Up to 32	Up to 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 22.0 inches (3RU) 133 x 483 x 559 mm	10.5 x 19.0 x 22.0 inches (6RU) 267 x 483 x 559 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	+50 to +104 °F (10 to +40 °C)	+50 to +104 °F (10 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		
Built-in Setup/Configuration GUI		
MCMS™ 3.1		
VIEW™ Controller		
Ethernet 10/100/1000 BASET, Telnet, RS-232		
Support for 3rd party controllers		

Additional Features

- Mullion, Bezel compensation
- Wall Layout Presets – up to 60
- HDCP V. 1.4 copy protection
- Displayed Clocks – up to 6
- Foreground Graphics
- Audio: Auxiliary (AUX) HDMI 1.4b outputs (embedded) & Application Processor (AP) option (analog, 3.5mm mini-jack)

Options

- Application Processor (AP): IP Stream decodes and MS Windows Applications
- Multiple wall arrays: up to 3
- Image overlap for edge blending support
- Window transition effects
- Redundant Hot Swappable Power Supply

Model 500

Model 550

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