MediaWall 1900/2900
High Performance Display Wall Processors

Superb Video Quality

Dedicated Real-time Architecture

Robust 24/7 Operation

Highly Secure System — no PC Vulnerabilities

Multiple User KVM

Dual-link Support

RGB SPECTRUM®

Overview

RGB Spectrum's *MediaWall*® Display Processors enable high performance visualization with arrays of projectors, tiles, cubes or flat panel displays. All processors are based on a custom built architecture that dedicates processing resources for each input. The result is faster video frame updates, display flexibility, security, and an enhanced visual experience.

The *MediaWall* family is comprised of two models: *MediaWall* 1900 supporting 2 outputs and the *MediaWall* 2900 supporting 4 outputs. With each *MediaWall* processor, the multi-screen array forms a display surface on which any configuration of window layouts is possible. Input options include DVI/HDMI, RGB, HD-SDI, IP, and analog video. Video images may be displayed anywhere, in any size, and within or across screen boundaries. Images can be displayed in correct aspect ratio, stretched to fit, in full screen mode, or zoomed in to emphasize details.

High Performance Video Processing

The *MediaWall* processor's hardware is purpose-built to deliver superb performance. Each input is processed at full frame rate, color sampling, and pixel rate, without common PC-based anomalies such as skipped frames or image tearing.

Reliability and Security

MediaWall processors offer 24/7 robustness. Each processor is packaged in a rack mountable enclosure suitable for the most demanding environments with replaceable air filters and redundant power supplies. RGB Spectrum's real-time, embedded operating system offers a high level of security, free from vulnerabilities such as viruses and malware commonly found in PC based systems.

Bezel Compensation and Edge Blending

MediaWall processors are designed to work with any display device — from tiles to projectors. Output resolution can be adjusted to a display device's exact native resolution. The processor offers adjustments to compensate for bezels between panels, both vertically and horizontally. When used with projectors, *MediaWall* processor outputs can be overlapped to provide edge blending in order to achieve the effect of a single, seamless canvas.

HDCP

The High Definition Content Protection (HDCP) option allows protected content, such as that output from a Blu-ray player, to be displayed anywhere on the wall. Although content protection was originally envisioned for use on a single screen, *MediaWall* processors supports HDCP functionality across multiple screens.

Control Options

MediaWall processors may be controlled in several ways. Our *Web Control Panel (WCP)* provides both local and remote operation, with a graphical representation of the video wall and "drag and drop" window positioning and scaling. Remote control commands are also available via RS-232 and Telnet. In addition, MediaWall processors can be controlled by third party control systems.

MultiPoint® Control Room Management System (MCMS)

For the ultimate in flexibility, *MediaWall* processors can be integrated into RGB Spectrum's *MultiPoint*® Enterprise — a collaborative control room management system for addressing, displaying, and controlling shared sources and computer systems in a control room environment. *MultiPoint* features include a system of preferences and priorities that determine which operators have access to specific source computers and resources. The system offers the industry's most intuitive user interface, which adds a higher degree of efficiency to any control room's decision making process.

The result – **better decisions, faster!**

MCMS Drag and Drop Interface

Specifications

Inputs

RGB Analog	Interlaced and progressive
Number/type	2x analog RGB/YPbPr/HD per module
Video level	1.0 V p-p for G and Y composite, 0.7V p-p for RB and PbPr
Input impedance	75 ohms
Sample clock rate	Up to 165 MHz
Horizontal scan rate	15 kHz to 125 kHz
Frame rate	Up to 200 Hz
Resolution	640x480 to 1920x1200, 2048x1152 20p, 1080i, 1080p
Color depth	24-bit
Sync type	RGsB, RGBS, RGBHV, YPbPr (tri-level or bi-level sync on Y/G)
Cable equalization	Automatic or manual, up to 164 ft (50 m) DVI
Connector type	15-pin HD
DVI Digital	
Number/type	8x DVI single link per frame
Resolution	640x480 to 1920x1200 and 2048x1152, 720p, 1080i, 1080p
Color depth	24-bit
Cable equalization	Automatic or manual; up to 164 ft (50 m)
Connector type	DVI-I (digital and analog)
HDCP	Compliant
HDMI	
Number/type	8x HDMI 1.3a
Resolutions	640x480 to 1920x1200 and 2048x1152, 720p, 1080i, 1080p
Color depth	24-bit
Cable equalization	Automatic or manual, up to 164 ft (50m)
Connector type	HDMI
HDCP	Compliant

Outputs

DVI single-link	4 (MW2900), 2 (MW1900)
DVI dual-link	2 (MW2900)
Resolution	Up to 1920x1200 and 2048x1152 Up to 2560x1600p and 1920x2160p (MW2900 dual-link option, per output)
Connector type	DVI-I (digital only)
Horizontal scan rate	31 kHz to 125 kHz
Frame rate	Up to 200 Hz
Clock rate	25 to 165 MHz (single-link) 165 to 330 MHz (dual-link)
Sync type	SRGsB, RGBS, RGBHV, YPbPr (tri-level or bi-level sync on Y/G)
Pin power	500 mA @ 5 VDC

Power

	100 - 240 VAC auto ranging
	50/60 Hz, 125 W maximum

Control

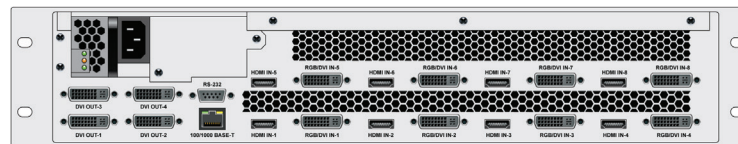|	
	Ethernet 10/100BaseT, Telnet, RS-232
	Web interface, 3rd party controllers

Physical

	Width: 17.0 in/43.2 cm
	Depth: 18.0 in/45.7 cm
	Height: 3.5 in/8.9 cm (2 RU)
	Weight: 25 lbs/11.4 kg

MediaWall 1900
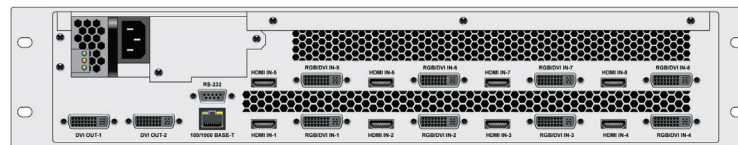
MediaWall 2900

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