MULTI-WINDOW DISPLAY CONTROLLER FOR "4K" 8 MEGAPIXEL DISPLAYS

MediaWall
Real Time Display Processors

Fully real time - no dropped frames

Up to 6 RGB / DVI / HDTV and 6 video inputs

Supports 4K LCD panels & projectors

Up to 3840 x 2160 pixel output

Control via web browser

Redundant power supplies

Downloadable 4K backgrounds

Borders and titles

Smooth sizing, panning, zooming

On-screen cursor control option

KvM control option

Presets

Recently introduced "4K" LCD panels and projectors with 3840 x 2160 pixels provide outstanding resolution. To address the potential of these displays, RGB Spectrum offers the MediaWall® real time video/data multiviewer with full 8 megapixel resolution. Unique among display processors, the MediaWall processor offers a custom, high performance architecture rather than a PC, with faster updates, more display flexibility, robustness and security. Real time display of all inputs is guaranteed under all conditions, without any dropped frames.

The MediaWall processor can display up to 6 PC and 6 video signals on a screen with the Model 2000, or 8 PC and 8 video with the Model 2500. Images can be displayed anywhere, any size, within or across the screen, in correct aspect ratio or stretched to fit, in whole or zoomed to emphasize details. Unlike other video/data multiviewers, the MediaWall processor has essentially no limits on display alternatives.

The system offers plug-and-play capability with a wide range of inputs. It accepts PC signals up to 1920 x 1200 pixels and HD inputs up to 1920 x 1080 pixels. Standard video inputs include composite, component and S-Video. Background images, up to 3840 x 2160, can be loaded from compact flash cards or over a network.

Control is via RS-232 or Ethernet. Our web browser based control system provides both local and remote operation. The user interface provides a graphical representation of the wall with "drag and drop" window positioning and scaling.

The MediaWall processor offers 24/7 robustness. It comes packaged in a compact rack mount enclosure with replaceable air filter, redundant power supplies, and thermostatically controlled fans, providing an excellent solution for challenging environments. Most importantly, the MediaWall processor is a dedicated system, not a PC, providing the security and reliability of an embedded operating system with no disk drives.

The MediaWall processor works with any "4K" display. Four DVI connections deliver full resolution to the display device.

A full array of features include dynamic window sizing and positioning, smooth zooming within images, custom borders, titling, programmable presets, backgrounds, logos, and digital clock, on-screen cursor control, and a KvM control option.

The MediaWall processor is unequaled for medical and control room operations demanding the highest possible resolution.

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Specifications

High Resolution Inputs

RGB Analog
Non-interlaced (Model 2000)
Interlaced and non-interlaced (Model 2500)

Number / Type	6 x analog RGB / YP$_b$P$_r$ / HDTV (Model 2000)
	8 x analog RGB / YP$_b$P$_r$ / HDTV (Model 2500)
Video level	Nominal 0.7V pk - pk
Input impedance	75 Ohms
Sample rate	Up to 165 MHz
Horizontal scan rate	12 kHz to 125 kHz
Frame rate	Up to 200 Hz
Resolution	640 x 480 - 1920 x 1200 pixels
Sync	Sync on green, separate composite sync, or separate H-drive and V-drive.
Connector type	15-pin HD

DVI Digital

Number	6 x DVI single link up to 1920 x 1200 (Model 2000)
	8 x DVI single link up to 1920 x 1200 (Model 2500)
Connector type	DVI-I

Video Inputs

Analog Composite

Number	6 x composite, 6 x S-Video (Model 2000)
	8 x composite, 8 x S-Video (Model 2500)
Video level	Composite 1.0 V pk - pk nominal
Format	625 line PAL, 525 line NTSC
Input impedance	75 Ohms
Connector type	Composite video: BNC (female)
	S-Video: 4 pin mini DIN (female)

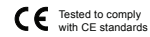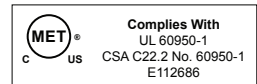## High Resolution Outputs

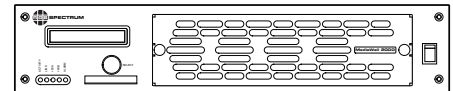|	
Number / Type	4 x RGB analog / DVI digital (Model 2000)
	6 x RGB analog / DVI digital (Model 2500)
Resolution	640 x 480 - 1920 x 1200 pixels non-interlaced
Video level	Nominal 0.7V pk - pk
Sample rate	Up to 165 MHz
Sync	Sync on green, separate composite sync, or separate H-drive and V-drive.
Connector	DVI - I

Features

Labels, Borders, Backgrounds, Logos, Pan and zoom, Presets, Window animation, Bezel compensation, Image overlays for edge blending, Freeze frame, Compact flash card reader, Redundant power supplies, On-screen digital clock option, On-screen cursor control option, Edge blending option, KvM integrated control option
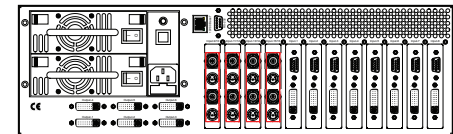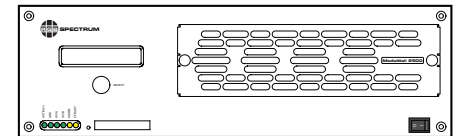
Other

Power	90 - 264 VAC autorange
	47 - 440 Hz (Model 2000),
	50/60 Hz (Model 2500)
	Less than 110W (Model 2000),
	150W (Model 2500)
Control	Command line using RS-232, or Ethernet 10/100 BASE-T
	Graphical User Interface using internal web server
Size	Width 17.25"/43.8 cm
	Depth 18.0"/45.7 cm
	Height 3.5"/ 8.9 cm (Model 2000)
	5.25"/13.3 cm (Model 2500)
Weight	25 lbs/11 kg (Model 2000), 30 lbs/13 kg (Model 2500)

MediaWall 2000

MediaWall 2500

The front panel provides an LCD status display. The MediaWall processor offers a true plug-and-play architecture, with ease of set-up similar to a matrix switcher.

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