The next generation MediaWall® processors are fully real-time display wall systems for arrays of projectors, cubes or flat panel displays. Unique among display wall processors, the MediaWall 4500 and 4200 are based on a custom, high-performance architecture rather than a PC, with faster updates, more display flexibility, robustness and security. Real-time display of inputs is guaranteed under all conditions, without dropped frames.

The MediaWall 4500 processor displays up to 30 graphics and video signals on up to twelve screens in a 3x4 array; the MediaWall 4200 displays up to twelve graphics and video signals on up to eight screens in a 2x4 array. Images can be displayed anywhere, any size, within or across screens, in correct aspect ratio or stretched to fit, in whole or zoomed to emphasize details. Unlike other video/data walls, MediaWall processors have essentially no limits on display alternatives; the multi-screen array forms a truly virtual screen in which any display of windows is possible. Input alternatives include RGB/DVI, HD/3G-SDI and analog video modules. An HDCP option allows the display of protected content.

Graphics signals are selectable up to 1920x1200 and 2048x1152 pixels. HD and digital cinema resolutions up to 2048x1080p are also supported. Standard video inputs include composite, component and S-Video. Background images, up to the aggregate resolution of the display wall, can be loaded from compact flash cards or over a network. IP streams may be displayed with an optional DSx 264MW module.

A web browser based control system provides both local and remote operation, with a graphical representation of the wall and "drag and drop" window positioning and scaling.

MediaWall processors offer 24/7 robustness. They are packaged in rack-mountable enclosures with replaceable air filters and redundant power supplies, providing excellent solutions for challenging environments. Most importantly, MediaWall processors provide the security and reliability of an embedded operating system and the absence of hard drives.

The processors work with almost any display devices. They offer adjustments to compensate for the bezel between panels and overlapped outputs to support edge blending on a continuous screen. Output resolution can be adjusted to the exact resolution of a display device up to 1920x1200, 2048x1152 or 2048x1080p, the highest resolution of any video/data wall.

A full array of features includes dynamic window sizing and positioning, smooth zooming within images, custom borders, titling, programmable presets, and backgrounds. Available options include redundant power supply, HDCP, KVM control and edge blending. The MediaWall 4500 and 4200 are unbeatable for mission critical, real-time operations.
### Specifications

<table>
<thead>
<tr>
<th>MediaWall 4500</th>
<th>MediaWall 4200</th>
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<tbody>
<tr>
<td>Up to 30 windows</td>
<td>Up to 12 windows</td>
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### RGB/DVI Input Module

- **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 RGB and PbPr
  - Input impedance: 75 ohms
  - Clock rate: Up to 165 MHz
  - Horizontal scan rate: 12 kHz to 125 kHz
  - Frame rate: Up to 200 Hz
  - Resolution: 640x480 to 1920x1200 and 2048x1152, 720p, 1080i, 1080p per module
  - Sync: RGbS, RGBS, RGHV, YPbPr (tri-level or bi-level sync on Y)
  - Connector: 15-pin HD

- **DVI Digital**
  - Number/type: 2x DVI single link up to 1920x1200, 2048x1152, and 2048x1080p per module
  - Cable equalization: Automatic or manual; up to 164 feet or 50 meters
  - Connector: DVI-I (digital only)
  - HDCP: Option

### HD/3G-SDI Module

- **Number/type**: 2x HD/3G-SDI per module
- **Interface standard**: SMPTE 292M & 424M
- **Max clock rate**: 1.5 Gb/s and 3 Gb/s max link speed
- **Resolution**: 1280x720i/60 and 59.94 Hz, 1920x1080i/50 and 50 Hz, 1920x1080P/24 Hz
- **Spectrum**: 1920x1080P/23.98, 24, 25, 50, 59.94, 60 Hz
- **Sampling**: YPbPr 4:2:2 sample structure
- **Cable equalization**: Automatic - supports up to 200m at 1.485 GHz clock rate (Belden 1694A)
- **Embedded audio**: Video only - no support for audio channels
- **Connector**: 75 ohm BNC Female

### Analog Video Input Module

- **Number/type**: 2x composite video/S-Video/YPbPr per module
- **Video level/format**: 1.0V p-p for G and Y composite, 0.7V p-p for RGB and PpPr
- **Sync**: YPbPr (tri-level or bi-level sync on Y)
- **Input impedance**: 75 ohms
- **Connector**: BNC (female)

### H.264 Over IP

- **Number/type**: 8 SD or 2 HD/graphics to 1920x1200 per optional DSx 264MW external module
- **Connector**: Ethernet

### Outputs

- **Type**: DVI
- **Number**: Model 4500: 4, 8 or 12; Model 4200: 4 or 8
- **Configurations**: Model 4500-1 & 4200-1: 1x2, 1x3, 1x4
- **Model 4500-2 & 4200-2**: 2x2, 2x3, 2x4
- **Model 4500-3**: 3x3, 3x4
- **Resolution**: 640x480 to 1920x1200, 2048x1152 and 2048x1080p (progressive)
- **Clock rate**: 35 to 165 MHz
- **Pin power**: 500 mA @ 5 VDC per output
- **Connector**: DVI-I (digital only)

### Other

- **Power**: Model 4500: dual redundant power supplies
  Model 4200: optional dual redundant power supply
  100 - 240 VAC, 60/50 Hz
  Model 4500: 750W maximum
  Model 4200: 325W maximum
- **Control**: Command line over RS-232 and USB 2.0 (MediaWall 4500 only)
  Ethernet 10/100 BASE-T
  Graphical User Interface via web browser
- **Telnet**:
- **Options**: Edge blending, KVM, HDCP, redundant power supply
- **Size**
  - Width: 19.0”/48.3 cm
  - Depth: 22.0”/55.9 cm
  - Height: Model 4500: 12.25”/31.1 cm (7RU)  Model 4200: 5.25”/13.3 cm (3RU)
- **Weight**: Model 4500: < 70 lbs / 32 kg  Model 4200: < 35 lbs / 15.9 kg