

# MegaWall™

## SERIES 3000



Datasheet version: May 2012

### Configurable high-performance image processor with windows controller for basic flat screen applications using panels, video cubes or projectors.

The MegaWall Series 3000 marks a new approach to system architecture. Designed for flexibility, ease of use and reliability, this real-time hardware image processor and controller offers a unique set of features never before available in a single unit. Fully configurable and capable of processing resolutions all the way up to WQXGA, it may also be used to control 4K projector installations.

The MegaWall Series 3000 offers full configuration of the DVI-I outputs, DVI-I inputs and composite video inputs with different resolution alternatives. And it includes CanvasControl™, an intuitive and powerful graphic user interface (GUI) with efficient and user-friendly features, allowing output windows to be arranged across a visual display in any manner. Users can load layout presets, create their own, or freely place windows in real time.

All input channels may be displayed as windows on panels, video cubes or projectors. For projected displays the Series 3000 includes overlap generator, image alignment and multi-sided blending for flat screens in addition to output scaling. For details the specification table is located on the reverse side of this datasheet.

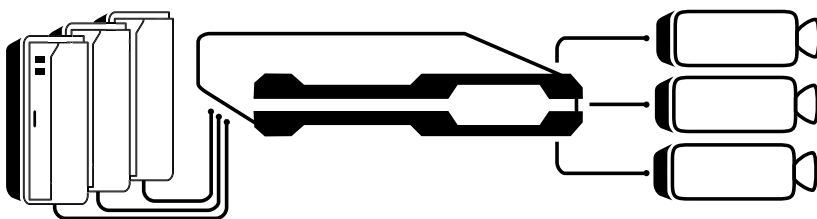


#### Key Features

- Real-time hardware
- Up to WQXGA 2560 x 1600
- 42 bit color processing (14 bit pr channel)
- Fully configurable
- Overlap generator
- 4 corner advanced keystone correction
- Multi-sided blending for flat screens
- Scaling
- Hot swappable cards
- Redundant power supply option
- Diagnostic features
- Intuitive GUI including:
  - What you see is what you get (WYSIWYG)
  - Interactive positioning of windows
  - Crop and zoom
  - Up to 250 presets
  - Drag and drop functionality
  - Windows 7/Vista/XP compatible

#### Inputs in any combination

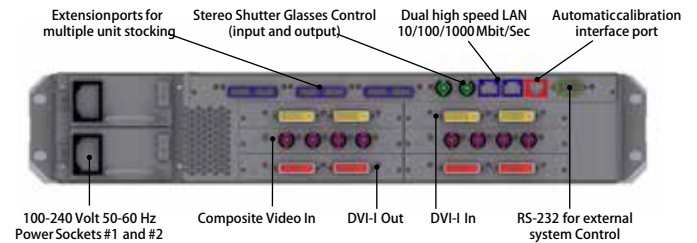
- Graphics • Data • Video



#### Outputs to any visual display

- Plasma Screens • LCD Screens • Projectors • Video Cubes

		Series 1000	Series 3000	Series 5000
<b>Supported display output and input</b>				
Fixed number of outputs and inputs		X		
Configurable number of outputs and inputs	6 slots available		X	X
Supports 4K projectors			X	X
<b>Standard display processing and control</b>				
Windows controller (picture-in-picture)		X	X	X
Overlap generator, horizontal and vertical		X	X	X
4-corner Keystone/Image alignment		X	X	X
Multi-sided blending for flat screen		X	X	X
Upload background images/logos		X	X	X
Cropping and Zoom		X	X	X
Drag and drop		X	X	X
Presets (up to 250)		X	X	X
Upload of JPEG wallpaper		X	X	X
Runs on Windows XP, Windows 7		X	X	X
<b>Advanced display processing and control</b>				
Projector control				X
Image warping flat screen			X	X
Image blending flat screen (multi-sided)			X	X
Image warping curved screen				O
Image blending curved screen (multi-sided)				O
Masking (multi-sided)		X	X	
Hotspot compensator				X
Internal test pattern generator				X
Stereo control			X	X
WarpSync automatic geometry correction				X
ChromaSync automatic colour correction				X
Signal Analysis Module				X
42 bit color processing (14 bits per channel)		X	X	X
<b>Resolution</b>				
Multiple resolution support				
Up to HD	1920 x 1080 (dual input and output boards)	X	X	X
Up to WUXGA	1920 x 1200 (single input and output boards)		X	X
Up to WQXGA	2560 x 1600 (single input and output boards)		X	X
Composite video	PAL (quad input boards)	X	X	X
<b>Input format</b>				
DVI - I single link inputs		X	X	X
Supports: VGA*	Progressive only	X	X	X
Supports: HDMI*	Progressive only, HDCP not supported	X	X	X
Supports: RGB Video*	RGBHV progressive only, 5-wire	X	X	X
Supports: RGB Video*	RGBS, 4-wire (composite sync)	X	X	X
Supports: RGB Video*	RGBS, 3-wire (sync on green)	X	X	X
Supports frame rates	24 - 120Hz**	X	X	X
DVI dual link inputs for resolutions QXGA and above		X	X	X
<b>Input processing</b>				
Analog to digital conversion		X	X	X
Sync conversion	Composite sync, sync on green	X	X	X
Frame rate conversion		X	X	X
Image scaling up to 8x		X	X	X
<b>Output format</b>				
DVI - I single link outputs		X	X	X
Supports: VGA*		X	X	X
Supports: HDMI*		X	X	X
Supports: RGB Video*		X	X	X
Supports frame rates	24 - 120Hz	X	X	X
DVI-D dual link output for resolutions QXGA and above		X	X	X
<b>System and maintainability</b>				
Embedded PC 64 bit processor PowerPC™		X	X	X
Realtime embedded operating system		X	X	X
Configurable I/O			X	X
Stackable for large system installations**			X	X
Remote monitoring (health check)**			X	X
Optical DVI extender output power		X	X	X
Redundant power supply option			X	X
Redundant fans			X	X
Hot swap	I/O boards		X	X
	Power supply modules		X	X
	Fans		X	X
<b>I/O port</b>				
6 Independent slots for input and output boards			X	X
Extension ports for multiple unit stacking**			X	X
High speed LAN 10/100/1000 Mbits/Sec		X	X	X
Stereo shutter glasses control (input and output)**		X	X	X
RS232 Port for external system control		X	X	X
Automatic calibration interface port**			X	X
100-240 Volt, 50-60 Hz power socket #1		X	X	X
100-240 Volt, 50-60 Hz power socket #2			X	X
Additional diagnostic LAN port			X	X
<b>Interface</b>				
3rd-party system Control interface-LAN or RS232 I/O ports		X	X	X
Intelligent EDID		X	X	X



## CanvasControl™

All MegaWall Series 3000 configurations are configured and controlled via CanvasControl™, enabling windows to be arranged across visual displays in any manner.

