

MegaWall™

SERIES 3000



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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.

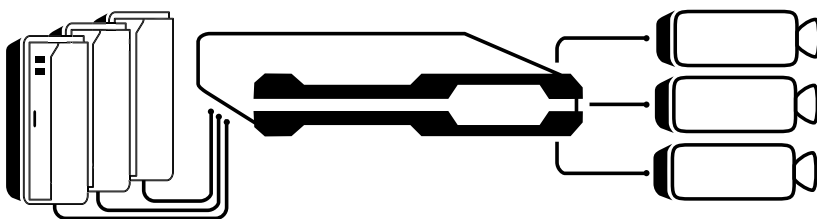


Key Features

- 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

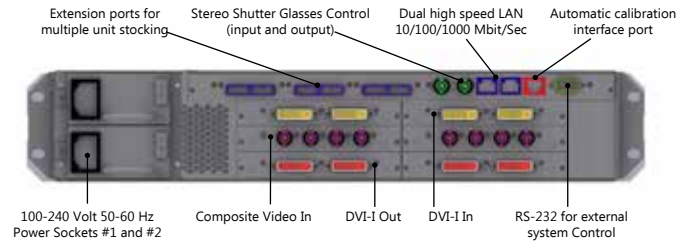
- Graphics
- Data
- Video



Outputs to any visual display

- Plasma Screens
- LCD Screens
- Projectors
- Video Cubes

	Series 1000	Series 3000	Series 5000
SUPPORTED DISPLAY OUTPUTS AND INPUTS			
Fixed number of outputs and inputs	X		
Configurable number of outputs and inputs 6 slots available		X	X
Supports 4K projectors		X	X
STANDARD DISPLAY PROCESSING WITH CANVASCONTROL GUI			
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
ADVANCED DISPLAY PROCESSING WITH NCONTROL			
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
RESOLUTIONS			
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
Composite video PAL (quad input boards)	X	X	X
INPUT FORMATS			
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
INPUT PROCESSING			
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
OUTPUT FORMATS			
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
SYSTEM AND MAINTAINABILITY			
Embedded PC 64 bit processor Power PC™	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
I/O PORTS			
6 Independent slots for input and output boards		X	X
Extension ports for multiple unit stacking**		X	X
Highspeed 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
INTERFACES (OTHER)			
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.



About 3D perception

3D perception provides advanced display components for immersive visualization and large display wall deployments.



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