DISPLAY HI-RES IMAGES ACROSS MULTIPLE SCREENS

ComputerWall III
Real Time Multi-Screen Display Controller

The ComputerWall® III is a multi-screen display controller designed to meet the needs of command centers, control rooms, and other mission critical applications.

High-resolution graphics, video and HDTV sources can be displayed in real-time across a 2 x 2, 1 x 2, 1 x 3, or 1 x 4 wall configuration. Larger walls can be served using multiple ComputerWall units.

User-selectable output guarantees a perfect match with any monitor, projector, cube or flat panel display. High quality processing maintains image detail and resolution, a critical factor when images are magnified under high ambient light conditions.

A 2 x 2 configuration is an ideal solution for displaying video or computer signals up to 1600 x 1200 resolution. A 1 x 2 configuration is an ideal solution for displaying 16:9 HDTV images up to 1920 x 1080p resolution on standard 4:3 displays. In a 2 x 2 configuration, signals up to 1600 x 1200 resolution can be displayed.

The ComputerWall requires no special software. With "plug and play" autosyncing, it easily connects to source signals via an external switcher. Signals can be routed from ComputerWall processors directly to the wall displays. (See diagram on reverse.) For maximum flexibility, the outputs from one or more ComputerWall units can be routed through a matrix switcher.

Inputs RGB, DVI, HDTV, and standard video

RGB / DVI outputs up to 1600 x 1200 pixels

Simple hardware installation

Software independent

Automatic synchronization to input signals

Inter-screen spacing (bezel) compensation

Real Time Performance

Up to 80 fps update rates

24-bit color processing

Remote control via RS-232 or Ethernet port

Command centers

Control rooms

Communication hubs

Convention facilities

Network operations centers

RGB SPECTRUM®
a visual
communications
company™

Specifications

Input Signals ──────────────────────────────
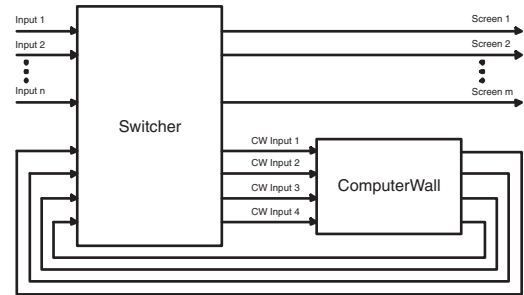
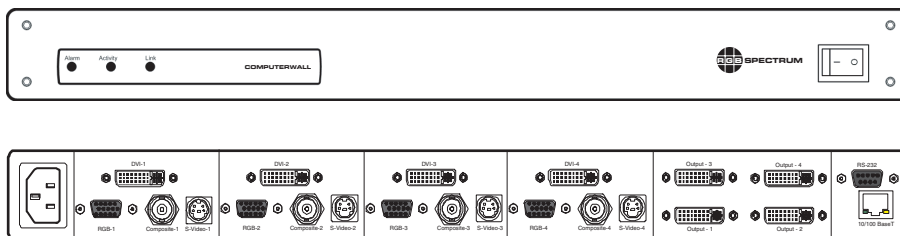|	
Type / Number	4 x RGB / Y P_b P_r / HDTV 4 x DVI (optional) 4 x NTSC/PAL composite 4 x S-Video
Resolution	640 x 480 to 1600 x 1200 pixels 720p and 1080i HDTV
Horizontal scan rate	12 kHz to 125 kHz interlaced or non-interlaced
Pixel clock (Max)	165 MHz
Video levels	0.7 V p-p
Sync type	Sync on green, separate composite sync, or separate H-drive and V-drive
Connectors	RGB: 15-pin HD D-Sub (female) DVI: 24-pin DVI-D option Composite: BNC (female) S-Video: 4-pin mini DIN (female)

Output Signals ──────────────────────────────

Type / Number	4 x RGB analog 4 x DVI digital
Resolution	640 x 480 to 1600 x 1200 pixels
Horizontal scan rate	12 kHz to 125 kHz interlaced or non-interlaced
Pixel clock (Max)	165 MHz
Video levels	0.7 V p-p
Sync type	Sync on green, separate composite sync, or separate H-drive and V-drive
Connectors	Analog and digital: 29-pin DVI-I

Other ──────────────────────────────

Power	85 - 264 VAC auto range 47 Hz - 440 Hz Less than 65 W
Control	Ethernet 10/100 BASE-T RS-232
Size	1 RU Width 17.25" (43.8 cm) Depth 15.3" (38.9 cm) Height 1.75" (4.5 cm)
Rackmount	Rackmount kit included
Weight	Approximately 14 lbs. (6.3 kg.)

A ComputerWall processor in a videowall configuration of "n" inputs and "m" screens. Multiple processors can be connected in a similar manner. This arrangement offers maximum flexibility.

Front and Rear Panels with Optional DVI Inputs