

SINGLE & MULTI-SCREEN CONTROLLERS

VIDEO/DATA DISPLAY

Watchdog

Real Time Display Processors

Fully real time no dropped frames

Robust 24 / 7 operation

Up to 6 RGB / DVI / HDTV and 27 video inputs

1 - 4 output screens

Up to 1920 x 1200 pixel inputs / outputs

Control via web browser

Embedded operating system

Redundant power supplies

Downloadable backgrounds and foregrounds

Mullion compensation

Rugged 2U enclosure

Plug and play architecture

WATCHDOG

The Watchdog® is a fully real time video/data wall processor for a single screen or "video wall" arrays of projectors, cubes or flat panel displays. It is based on a custom, high performance architecture, with faster updates, more display flexibility, robustness and security than PC based systems.

Depending on model, the Watchdog processor can display up to six graphics and twenty-seven video signals simultaneously on one to four output screens. The system is fully real time, with no dropped frames. Video inputs can be displayed in arrays of one to nine windows, each with borders and labels.

Watchdog processors offer plug-and-play capability with a wide range of inputs. Graphics signals are selectable up to 1920 x 1200 in RGB or 1600 x 1200 in DVI format, including output from DVRs. Background and foreground images can be loaded from compact flash cards or over a network.

Control is offered via RS-232 or Ethernet port. X.TV, a 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 system offers 24/7 robustness. It comes packaged in a compact 2U rack mountable enclosure with replaceable air filter, redundant power supplies, and thermostatically controlled fans, providing an excellent solution for challenging environments. Most importantly, the Watchdog processor provides the security and reliability of an embedded operating system.

Output resolution can be adjusted to the exact resolution of the display used, up to 1920 x 1200 pixels. A single processor can support one display or a 1 x 2, 1 x 3, 1 x 4, or 2 x 2 multiscreen array, depending on model.

Watchdog processors are unbeatable for mission critical, real time operations. They are ideally suited for security control rooms, emergency operations centers, traffic control rooms, and mobile command centers.



Specifications

High Resolution Inputs -

RGB Analog Non-interlaced

Number Up to 6 analog RGB / YPbPr / HDTV

Video Level Nominal 0.7V pk - pk (1.0V composite pk - pk)

Input Impedance 75 Ohms
Sample Rate Up to 165 MHz
Horizontal Scan Rate 12 kHz to 125 kHz
Frame Rate Up to 100 Hz

Resolution 640 x 480 - 1920 x 1200 pixels

Sync on green, separate composite sync,

or separate H-drive and V-drive

Connector type DVI-I (Integrated analog / DVI 29 pin connector)

DVI Digital

Number Up to 6 DVI single link

Maximum bandwidth 1.65 Gbps / channel (up to 1600 x 1200 pixels)
Connector type DVI-I (Integrated analog / DVI 29 pin connector)

Composite Video Inputs -

Number Up to 27 composite video Video Level 1.0 V pk - pk nominal Format 625 line PAL, 525 line NTSC

Input impedance 75 Ohms

Connector type HD-15 breakout cable to female BNCs

High Resolution Outputs

Number Up to 4 RGB analog / DVI digital Resolution 640 x 480 - 1920 x 1200 pixels

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.

Maximum bandwidth 1.65 Gbps / channel (DVI Single link)

Connector type DVI-I (Integrated analog / DVI 29 pin connector)

Features

Labels, borders, backgrounds, foreground graphics, logos, pan and zoom, presets, freeze, mullion compensation, motion detection, on-screen cursor control

Options -

Compact flash card reader, digital clock

Other

Control

Power 88 - 132 / 176 - 264 VAC autorange

47 - 440 Hz. Less than 100W

Command line using RS-232,

or Ethernet 10/100 BASE-T

Graphical User Interface using internal web server

Size Width 17.25"

Depth 18" Height 3.5"

Weight 25 lbs. (11 kg)

February 2007 Specifications subject to change without notice Made in the USA ©2007 RGB Spectrum

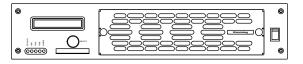


| Model | Input | Signals | Output |
|-------|---------|---------|--------|
| | RGB/DVR | Video | |
| 634 | 6 | 27 | 4 |
| 631 | 6 | 27 | 1 |
| 222 | 2 | 18 | 2 |
| 221 | 2 | 18 | 1 |





X.TV control screens are accessible locally or remotely over any internet browser.





The Watchdog processor offers a true plug-and-play architecture. Composite video inputs are connected via standard BNC breakout cables.

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