

**Displays up to six
real-time inputs**

**Compatible with
graphics inputs up to
1920 x 1200 pixels**

**RGB, DVI, NTSC/PAL
and S-Video inputs**

**Windows independently
positioned and scaled**

**Pan and zoom within
windows**

Chromakey overlays

REAL-TIME VIDEO WINDOWING SYSTEM

RGB/View 8000 - EN Multi-input Display Processor

The RGB/View[®] 8000 controller displays real-time video windows on a high resolution monitor. Each window can be independently positioned, scaled to any size, overlaid with computer graphics or overlapped with other windows. In addition, the user can pan and zoom within each image.

The system was developed for applications requiring the simultaneous real-time display of high quality video and computer-generated images. The RGB/View 8000 offers up to four scaleable video inputs, one scaleable high resolution RGB/DVI input and one background signal.

The RGB/View processor guarantees real-time video performance under all conditions. In typical operation, the RGB/View 8000 is genlocked to an input signal displayed in the background. Overlaying of signals is supported using a chromakey technique. The user chooses a "key" color in the background to specify where it is transparent; the result is that portions of the background signal, as thin as a single line, appear over the windowed video. If no background signal is required, the output of the RGB/View 8000 can be "free run" to a user defined specification.

Excellent video quality, real-time performance, a unique set of features and compatibility with virtually all graphics sources makes the RGB/View 8000 the finest video windowing system available.

Specifications

High Resolution Computer Inputs

Number (max)	2 RGB analog or 1 RGB analog plus 1 DVI digital
Configuration	1 high resolution input window plus background
RGB Analog	
Video level	Nominal 0.7 V pk-pk (1.0 V composite pk-pk)
Input impedance	75 ohms
Sample rate	Up to 205 MHz
Horizontal scan rate	15 kHz to 100 kHz interlaced or non-interlaced
Frame rate	Up to 100 Hz
Resolution	640 x 480 to 1920 x 1200 pixels
Sync	3 wire (sync on green, bi-level or tri-level), 4 wire (separate composite sync), 5 wire (separate H and V sync)
Sync level	0.3 V p-p (3 wire bi-level), 0.6 V p-p (3 wire tri-level), 1 to 5 V (4 and 5 wire)
DVI Digital	
Connector type	DVI-I (integrated analog/DVI 29 pin connector)
Maximum bandwidth	1.65 Gbps/channel (DVI single link)
Resolution	640 x 480 to 1600 x 1200

Video Inputs

Number	4 composite or 2 S-Video
Video level	Composite 1.0 V pk-pk nominal
Format	625 line PAL, 525 line NTSC
Input impedance	75 ohms
Connector type	SMA

High Resolution Output

RGB Analog	
Video level	Nominal 0.7 V pk-pk
Output impedance	75 ohms
Sample rate	Up to 205 MHz
Sync	3 wire (sync on green), 4 wire (separate composite sync), 5 wire (separate H and V sync)
Sync level	0.3 V p-p (3 wire) 5 V (4 and 5 wire)
Resolution	640 x 480 to 1920 x 1200
DVI Digital	
Maximum bandwidth	1.65 Gbps/channel (DVI single link)
Resolution	640 x 480 to 1600 x 1200

Functions

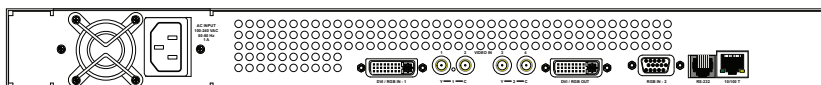
Windows	Position, priority, scaling, pan and zoom, aspect ratio, ID, freeze frame
Image	Brightness, contrast, gamma, hue, saturation, sharpness and test pattern
Chroma key	Single bit keyer with interactive adjustment or user-defined key color

Control

Network connection	
Type	10/100 Base-T Ethernet (TCP/IP)
Connector type	RJ 45
Function	Command line control via internal Telnet server
RS-232 serial	
Connector type	RJ11
Baud rate	9600 baud to 115k baud
Function	Command line control of all system functions

Other

Power	100-264 VAC, 50/60 Hz, 35 W maximum
Size	17.25" (w), 12" (d), 1.75" (h) excluding rack mount ears
Weight	10 lbs



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