



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

**Compatible with
graphics inputs up to
1600 x 1200 pixels**

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

**Windows independently
positioned and scaled**

Zooming within windows

Chromakey overlays

Software independent

30-bit color processing

**Control over VMEbus,
RS-232 port and Ethernet**

Frame grabbing over

VMEbus and Ethernet

6U VME REAL - TIME VIDEO WINDOWING SYSTEM

RGB/View 8000

RGB/View 8001

Multi-input Display Processors

The RGB/View® 8000 and 8001 controllers display up to eleven 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 video and two high resolution RGB inputs on a single VME board. The RGB/View 8001 supports up to eight video and three RGB inputs in two VME slots.

The RGB/View processor guarantees real-time video performance under all conditions. Its architecture has a unique advantage: the multi-image display imposes no burden on the host CPU, frame buffer or bus.

Features include frame grabbing of individual inputs or the combined screen image, over the VMEbus or Ethernet port, a fully digital signal path available with DVI input and output, and a chromakey for overlays.

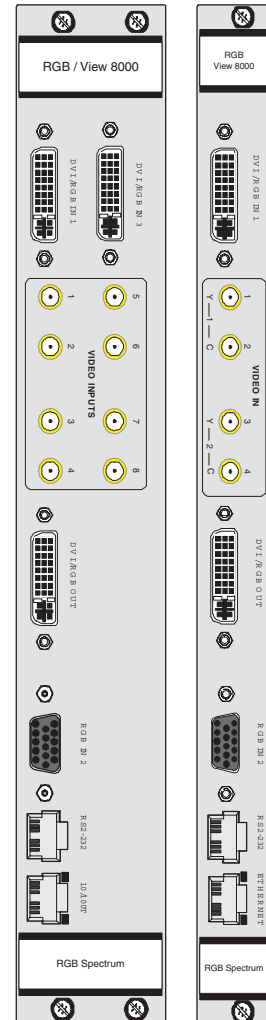
Excellent video quality, real-time performance, a unique set of features and compatibility with virtually all VME CPU and graphics boards, make the RGB/View 8000 and 8001 the finest video windowing systems available.



Specifications

High Resolution Graphics Inputs	
Analog RGB	Interlaced or non-interlaced
Number (max)	2 (model 8000), 3 (model 8001)
Signal formats	RGB and YPbPr (HD)
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 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	
Number	1 (model 8000), 2 (model 8001)
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	
Analog Composite	
Number	4 composite or 2 S-Video (model 8000) 8 composite or 4 S-Video (model 8001)
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 Graphics Output	
Analog RGB	
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	
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, and test pattern
Frame grab	Capture single frames from any input or the combined screen image; transfer over VMEbus or Ethernet network port
Chroma key	Single bit keyer with interactive adjustment
Other	
Power	< 25W (model 8000) < 48W (model 8001)
Control	VME, RS-232, Ethernet 10/100 BASE-T
Bus	VME 32 slave
Size	6U x 160 mm.
Slots	1 (model 8000) 2 (model 8001)

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Specifications subject to change
without notice
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