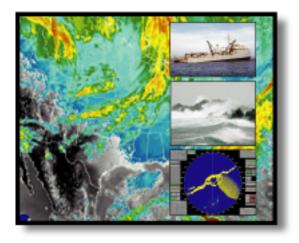
RGB/View



6U VME REAL-TIME VIDEO WINDOWING SYSTEM

RGB/View 8000 Multi-input Display Processor

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

Control over VMEbus, RS-232 port and Ethernet

Frame grabbing over VMEbus and Ethernet 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.

T he system was developed for applications requiring the simultaneous real-time display of high quality video and computer-generated images. T he RGB/V iew 8000 offers up to four scaleable video inputs, one scaleable high resolution RGB/DVI input and one background signal on a single VME board.

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 VME bus or Ethernet port, a fully digital signal path available with DVI input and output, and a chroma key for overlays.

In typical operation, the 8000 is genlocked to an input signal displayed in the background. O verlaying 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 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 VME CPU and graphics boards makes the RGB/View 8000 the finest video windowing systems available.

Specifications

High Resolution		
Number (m	,	2 RGB analog or 1 RGB analog plus 1 DVI digital
Configuration		1 high resolution input window plus background
RGB Analog	-	
Video le		Nominal 0.7 V pk-pk (1.0 V composite pk-pk)
	npedance	75 ohms
Sample		Up to 205 MHz
	ntal scan rate	15 kH z to 100 kH z interlaced or non-interlaced
Framer		Up to 100 Hz
Resolut	ion	640 x 480 to 1920 x 1200 pixels
Sync		3 wire (sync on græn, bi-level or tri-level), 4 wire (separate composite sync), 5 wire (separate H and V sync)
Sync lev	<i>r</i> el	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		
Connec	tor type	DVI-I (integrated analog/DVI 29 pin connector)
Maximi	m bandwidth	1.65 G bps/channel (DVI single link)
Resolut	ion	640 x 480 to 1600 x 1200
Video Inputs —		
Numbe	r	4 composite or 2 S-Video
Videolo		Composite 1.0 V pk-pk nominal
Format		625 line PAL, 525 line NT SC
Input impedance		75 ohms
-	tor type	SMA
High Resolution		
RGB Analog	•	
Video level		Nominal 0.7 V pk-pk
	impedance	75 ohms
Sample	·	Up to 205 MHz
Sync		3 wire (sync), 4 wire (separate composite sync), 5 wire (separate H and V sync)
Sync lev	<i>v</i> el	0.3 V p-p (3 wire) 5 V (4 and 5 wire)
Resolut	ion	640 x 480 to 1920 x 1200
DVI Digital		
	um bandwidth	1.65 G bps/channel (DVI single link)
Resolut	ion	640 x 480 to 1600 x 1200
Functions		
Window	7S	Position, priority, scaling, pan and zoom, aspect ratio, ID, freeze frame
Image		Brightness, contrast, gamma, hue, saturation, sharpness and test pattern
Frame g	rab	Capture single frames from any input or the combined screen image; transfer over VME bus or Ethernet network port
Chroma	key	Single bit keyer with interactive adjustment or user-defined key color
Other —		
Power		<35W
		200 lfm (min) across board
Cooling		
Cooling Control		VME, RS-232, Ethernet 10/100 BASE-T
Ũ		VME, RS-232, Ethernet 10/100 BASE-T VME 32 slave
Control		



Naval and Airborne Consoles

Tactical Operations Centers

Military Vehicles

Fire Control Systems