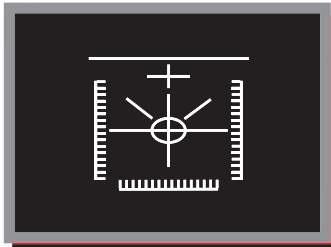


Background



Foreground

RGB inputs to 1920 x 1200

Linear RGB color keyer

Additive mix image blending

Selectable output resolution

Genlock

DVI input

DVI output

Ethernet and RS-232 control

THE HI-RES IMAGE COMBINER THAT DOES IT ALL

SYNCHROMASTER 560

The SynchroMaster® 560 combines images from two high-resolution computer sources or image generators into one composite image.

In a typical situation, one computer will generate the foreground and the other, the background. The two signals are digitized, synchronized and combined. One or both inputs are written to frame buffers, depending on whether the user specifies an output signal independent of the inputs.

The SynchroMaster 560 can synchronize and combine RGB and DVI signals of different line and frame rates and interlacing format. It offers two alternative combining techniques, a weighted sum of the two input signals or a linear RGB color keyer.

In chromakey mode, the background signal is visible through the foreground signal wherever the foreground color falls within a specified color range. The RGB color keyer is linear, allowing the selection of a range of colors where the output signal is a blend of the two inputs. This results in quality superior to more commonly available one-bit keyers, especially when the foreground consists of shaded graphics or photo-realistic renderings.

The SynchroMaster 560 features a sophisticated user interface to select key color – the user simply moves a cursor over the foreground image until it is positioned over the desired color.

A DVI output is available for display devices that support digital signals.

SERIOUS EQUIPMENT FOR SERIOUS SIMULATION



Specifications

March 2004
 Specifications subject to change
 without notice
 Made in the USA
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High Resolution Graphics Inputs

Analog RGB	Interlaced or non-interlaced
Number	2
Signal formats	RGB and YPbPr (HD)
Video level	Nominal 0.7V p-p (1.0V composite p-p)
Output 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 - 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	0.3V p-p (3 wire bi-level), 0.6V p-p (3 wire tri-level), 1 to 5V (4 and 5 wire)

DVI	
Number	1
Connector type	DVI-I (integrated analog / DVI 29 pin connector)
Resolution	640 x 480 - 1600 x 1200 pixels
Maximum bandwidth	1.65 Gbps / channel (DVI single link)

High Resolution Graphics Output

Analog RGB	
Video level	Nominal 0.7V pk-pk
Output impedance	75 ohms
Sample rate	Up to 205 MHz
Resolution	640 x 480 - 1920 x 1200 pixels
Sync	3 wire (sync on green), 4 wire (separate composite sync), 5 wire (separate H and V sync)
Sync level	0.3V p-p (3 wire), 5V (4 and 5 wire)

DVI	
Resolution	640 x 480 - 1600 x 1200 pixels
Maximum bandwidth	1.65 Gbps / channel (DVI single link)

Functions

Keyer	8 bit linear key with interactive color selection
Image controls	Brightness, contrast, sharpness, gamma
Test signals	Internally generated test signals

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	96 baud to 115 k baud
Function	Command line control of all system functions

Other

Power	10-264 VAC, 50/60 Hz, 35 W maximum
Control	Ethernet 10/100 BASE-T
Size	17.25" (w), 12" (d), 1.75" (h)
Weight	10 lbs



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