



THE IMAGE COMBINER THAT DOES IT ALL

SYNCHROMASTER 550

The SynchroMaster® 550 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. Both signals are digitized and written to frame buffers, synchronized and combined. The SynchroMaster 550 offers two alternative combining technologies, a weighted sum of the two inputs or a linear RGB color keyer.

In the case of the RGB color keyer, the background input is visible through the foreground input at any area where the foreground color falls within the RGB color keyer range. The RGB color keyer is linear; i.e. there is a range of colors where the output is a blend of the two inputs. This allows for a superior result, especially when the foreground consists of shaded graphics or photo-realistic renderings.

The SynchroMaster 550 can synchronize and combine RGB signals of different line and frame rates and interlacing format. As an option, it can be configured to accept an NTSC/PAL video signal as the background or foreground signal.

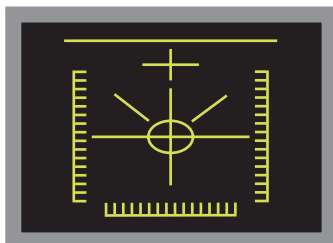
The SynchroMaster 550 features a sophisticated user interface to select a key color – the user simply moves cursor lines over the foreground image until they are positioned over the desired color.

Output resolution is completely independent of the input signals. Either or both can be scaled to fit the desired output format.

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



Background



Foreground

RGB inputs to 1280x1024

Optional NTSC/PAL input

Linear RGB color keyer

Additive mix

Selectable output resolution

Optional DVI output

RS-232 control

SERIOUS EQUIPMENT FOR SERIOUS SIMULATION

RGB SPECTRUM®
a visual
communications
company®



S y n c h r o M a s t e r 5 5 0

Specifications

Input Signals

Type	RGB NTSC/PAL composite, S-Video, YP _b P _r component (option)
Horizontal scan rate	15 kHz to 50 kHz interlaced 30 kHz to 90 kHz non-interlaced
Frame rate	Up to 100 Hz
Pixel rate	Up to 140 MHz
Video levels	0.7V to 1.0V peak-to-peak
Sync type	Sync on green, separate composite sync, or separate H-Drive and V-Drive
Connectors	RGB: 15-pin HD D-Sub (female) Composite: BNC (female) S-Video: 4-pin mini-DIN (female) Component: 15-pin HD D-Sub (female)

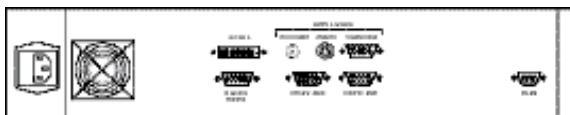
Output Signal

Type	RGB
Horizontal scan rate	15 kHz to 50 kHz interlaced 30 kHz to 90 kHz non-interlaced
Frame rate	Up to 100 Hz
Resolution	640 x 480 to 1280 x 1024 pixels
Pixel rate	Up to 140 MHz
Video levels	0.7V to 1.0V
Sync type	Sync on green, separate composite sync, or separate H-Drive and V-Drive
Connectors	Analog: 15-pin female HD D-Sub Digital: 24-pin DDWG DVI (option)

Other

Power	100-260 VAC, 47-63 Hz less than 100 Watts
Control	RS-232
Size	Width 17.5" (44.5 cm) Depth 14.0" (35.6 cm) Height 3.5" (8.9 cm)
Rackmount	2U rackmount kit available
Weight	Approximately 13.5 lbs. (6.1 kg)

Specifications subject to change without notice
Made in the USA
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Front and back panel configuration with all options

RGB SPECTRUM

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