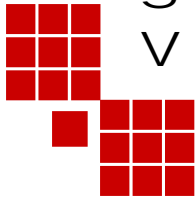


TRANSFORM  
COMPUTER  
GRAPHICS  
TO THE HIGHEST QUALITY  
BROADCAST  
STANDARD  
VIDEO



THE RGB/VIDEOLINK 1690

VIDEO SCAN CONVERTER

THE LINK BETWEEN  
COMPUTER GRAPHICS  
& VIDEO



The RGB/Videolink® 1690 video scan converter transforms computer graphics and other signals to broadcast standard video. Computer generated images can then be recorded, broadcast, displayed or transmitted using ordinary video equipment.

**Up to 1600 x 1200  
pixel input**

**Composite NTSC/ PAL,  
S-Video, RGB,  
Y P<sub>B</sub> P<sub>R</sub> output**

**CCIR 601/SMPTE 259M  
digital video output  
option**

**16 levels of flicker  
filtering**

**Autosync**

**Genlock**

**Pan & zoom**

**Full 24-bit color**

The unit offers NTSC/PAL composite video, S-Video (S-VHS, Hi-8) and component analog video (Betacam/MII) outputs. SMPTE 259M digital output is available as an option. State-of-the-art digital signal processing circuitry eliminates interlace flicker in the output image. Even thin horizontal lines appear stable. Multiple levels of filtering offer you the best choice between image sharpness and flicker elimination.

A zoom function lets you scale a portion of the image for emphasis or to provide just the right amount of underscan/overscan adjustment.

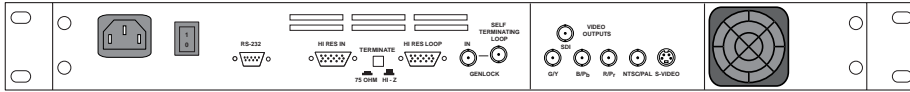
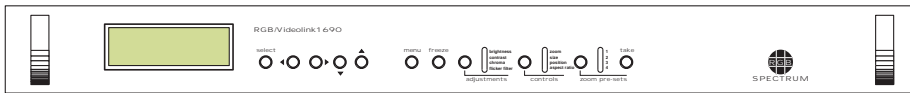
The RGB/Videolink 1690 provides automatic synchronization to computer signals up to 1600 x 1200 pixels, including virtually all desktop computers and workstations.

Professional quality scan conversion has never been easier.

**Visit our web site  
<http://www.rgb.com>**

RGB SPECTRUM®  
a visual  
communications  
company™





### Computer Inputs

Type: RGB analog video  
 Interface: 1:1, 2:1 (interlaced or non-interlaced)  
 Amplitude: 0.5 V to 1.0 V peak-peak (black level to white level)  
 Pedestal: 0 to 120 mV  
 Impedance: Bridging or 75 Ω, switchable  
 Connectors: 15-pin HD D-Sub (female)  
 Resolution: 640 x 480 to 1600 x 1200  
 Scan Rate: 15 kHz to 150 kHz  
 Sync Type: Sync on green, separate composite sync,  
 or separate horizontal drive and vertical drive  
 Sync on green: 200 mV to 400 mV  
 Separate sync: 1.0 V to 4.0 V; polarity negative/positive

### Video Outputs

Scan Rate 15.734 kHz, 29.97 Hz / 15.625 kHz, 25 Hz

Composite (NTSC/PAL)	Differential phase	< 2 degrees
	Differential gain	< 2%
	K2T	< 1%
	KPB	< 2%
	Connector	BNC

S-Video Standard S-Video levels on a 4 pin mini-DIN connector  
 CAV RGB and Y P<sub>B</sub> P<sub>R</sub> on BNCs  
 Digital SMPTE 259M on BNC (option)

**Genlock** Composite video (NTSC/PAL), black burst

<b>Controls</b>	Brightness	Zoom	Size
	Contrast	Pan	Position
	Saturation	Zoom presets	Freeze
	Gamma	Aspect ratio	Genlock adjustment

### Serial Communications

Type RS-232, on DB9 connector (female)  
 Data 8 bits, 1 start, 1 stop  
 Echo User selectable  
 Baud rate 4800, 9600, 19200, 38400, 57600, 115200

### Physical

Dimensions: 19" (49.26 cm) x 8" (20.32 cm) x 1.75" (4.45 cm)  
 Weight: 8.3 lbs (18.3 kg)  
 Power: 90-132V AC or 180-264V AC Autoranging  
 < 40W

Specifications subject to change without notice  
 Made in the USA ©2003 RGB Spectrum

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