



**TRANSFORM  
COMPUTER GRAPHICS  
TO THE  
HIGHEST QUALITY  
BROADCAST  
STANDARD  
VIDEO**

**RGB/VIDEOLINK 1690**  
**Video Scan Converter**

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.

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 to emphasize or to provide just the right amount of underscan/overscan adjustment.

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

Professional quality scan conversion has never been easier.

**Up to 1600 x 1200 pixel input**

**Composite NTSC/PAL  
S-Video, RGB, YP<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**

Specifications

**Computer Inputs**

Type	RGB analog video
Interlace	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 Pb Pr on BNCs	
Digital	SMPTE 259M on BNC (option)	

**Genlock**

Composite video (NTSC/PAL), black burst

**Controls**

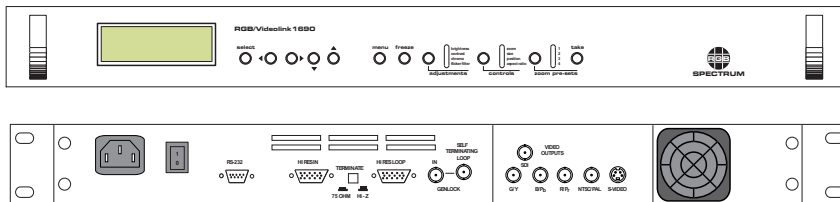
Brightness	Zoom	Size
Contrast	Pan	Position
Saturation	Zoom pre-sets	Freeze
Gamma	Aspect ratio	Genlock adjustment

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



**Front and Rear Panels**