



**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_BP_R 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

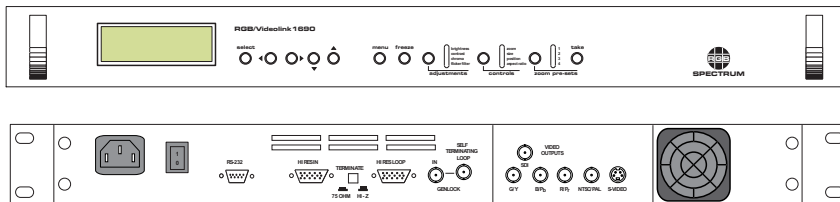
| | | |
|------------|---------------|--------------------|
| Brightness | Zoom | Size |
| Contrast | Pan | Position |
| Saturation | Zoom pre-sets | Freeze |
| Gamma | Aspect ratio | Genlock adjustment |

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

