TRANSFORM
COMPUTER GRAPHICS TO MPEG-2 VIDEO

THE RGB/VIDEOLINK M-2
VIDEO SCAN CONVERTER & ENCODER

Up to 1600 x 1200 pixel input

Real time MPEG-2 encoding

Unicast or multicast over IP

Stereo audio input

Broadcast quality NTSC/PAL, S-Video, RGB, Y P$_b$ P$_r$ outputs

16 levels of flicker filtering

Autosync

Genlock

Pan & zoom

Full 24 bit color

Visit our web site http://www.rgb.com

The RGB/Videolink® M-2 video scan converter and encoder simultaneously transforms computer signals to both MPEG-2 format digital video and analog broadcast standard video in real time.

Using state-of-the-art digital signal processing (DSP), the RGB/Videolink M-2 streams real time DVD quality MPEG-2 video and stereo audio over IP in full motion at 25 (PAL) or 30 (NTSC) frames per second. The ability to reduce bandwidth or storage requirements by adjusting the compression level is also provided.

Auto-sensing output supports either 10 BASE-T or 100 BASE-TX Ethernet interfaces with user configurable static or dynamic (DHCP) IP addressing. The unit offers reliable transmission using UDP or RTP over UDP with packet shaping to reduce peak bit rates. Powerful Forward Error Correction (FEC) enables the reconstruction of lost packets.

All normal scan conversion outputs, composite video, S-Video, Y P$_b$ P$_r$ and RGB, are available while the unit is streaming MPEG-2 video, providing flexibility in monitoring, distribution and recording. High quality interlacing with user adjustable flicker filtering ensures that even thin horizontal lines appear stable. A large zoom range allows scaling of a portion of the original image to fill the screen.

Synchronization and set-up are automatic. The RGB/Videolink M-2 automatically synchronizes to computer signals up to 1600 x 1200 pixels, including virtually all desktop computers and workstations. It measures the input signal and sets up the parameters for the sharpest picture, correct aspect ratio and size of the output image.
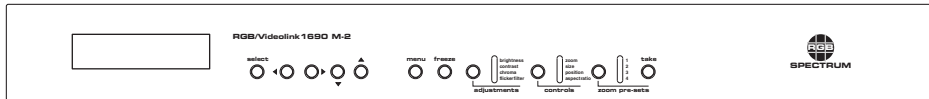
Professional quality video scan conversion and MPEG-2 encoding have never been easier.

RGB SPECTRUM®
a visual communications company™

Specifications

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 ohm switchable
Connectors:	15-pin HD D-Sub (female)
Resolution:	640 x 480 to 1600 x 1200 pixels
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

Audio Inputs

Signal level:	Line level, 1.0 V r.m.s. max
Input impedance:	Bridging
Connectors:	Dual RCA phono connectors

MPEG-2 Output

Video:	MPEG-2 compliant with RFC-1889 and RFC-2550 Main profile at main level
Audio:	MPEG-1 layer 2 at 256 or 384 kbits/s
Output interface:	10 BASE-T / 100 BASE-TX, auto sensing
Output bandwidth:	1.2 Mbits/s to 7.5 Mbits/s
Protocol:	UDP or UDP with RTP Unicast or multicast models
Error correction:	Forward Error Correction (FEC)

Video Outputs

Scan rate:	15.734 kHz, 29.97 Hz / 15.625 kHz, 25 Hz
Composite:	1.0 V peak-peak, BNC (female) connector
S-Video:	Standard S-Video levels on a 4 pin mini DIN connector
CAV:	RGB and $Y P_b P_r$ on BNC connectors

Genlock

Input:	Composite video (NTSC / PAL), black burst

Serial Communications

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

Physical

Dimensions:	16.9" W x 8" D x 1.74" H (excluding rack mount ears)
Rackmount:	Rackmount kit included
Weight:	8.0 lbs (3.6 kg)
Power:	90 - 132 V AC or 180 - 264 V AC 50 / 60 Hz < 40 VA