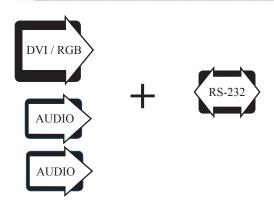




FEATURES:

- Digital transmission of DVI / RGBHV / RGsB over one multimode fiber
- 2-ch 24-bit Audio + 1-ch bi-directional RS-232 data
- Supports VGA, SVGA, XGA, SXGA & UXGA formats (640x480x60Hz to 1600x1200x75Hz)
- HDTV resolutions of 480p, 720p, and 1080i (RGB/DVI)
- H & V Sync Frequency range of 60 to 150Hz (vertical), 30 to 130kHz (horizontal)
- Uses all-digital processing & transmission for crystal-clear signals and no color skewing
- Real-time video transmission for exceptional quality & resolution – no video compression
- Requires no adjustments, equalization or de-skewing during setup
- Data throughput in excess of 6 Gbps (uncompressed).
 Most systems have 1.25 Gbps throughput with significant compression
- DDC (Data Display Channel) optional
- Standard DVI-I video connector with dongle included for RGB interface
- USB interface for remote monitor adjustments
- Wide optical dynamic range: Eliminates need for optical attenuators
- Multimode Laser Based System
- SpectraSmart[™] Network Management Compatible

Digitally-Encoded DVI / RGB Video / Audio / Data Transmission System



DESCRIPTION:

Meridian's RGB-T/R-110 product is part of Meridian's DigiView product family and is a state-of-the-art, cost-effective, high performance Video/Audio/Data transmission system that transports the following signals: 1-ch fully-compliant DVI, RGsB or RGBHV signal over one multimode fiber and 2 one-way audio and 1 bidirectional RS-232 data channel over a second, multimode fiber. The supplied adapters (dongles) allow easy interface to standard RGBHV connectors on computers and monitors. The two audio channels provides professional-grade transmission of line level stereo audio while the data channel will transmit standard RS-232 data such as that from document scanners, computer mouse, touch-screen display information, etc. The RGB-T/R-110 provides real-time, digitized transmission of the RGB and H&V sync signals. Because it transmits signals in real-time, no video information is lost and is a perfect solution for dynamic video signals with crystal clear video and no color pixel skewing.

The user can further enhance the video performance with the use of the computer USB interface. This data channel allows the user to adjust brightness, contrast, H&V position, picture sharpness, color, etc.

As with all of Meridian's DigiView products, this unit has a 10-year warranty

CONFIGURATIONS:

This RGB-T/R-110 product is available as rack mount cards and modules that can be installed in either Meridian's desk chassis or in 19" racking frames. This product requires two standard single slots and can be made into a stand-alone system with the addition of the SR-1000/s, 2 slot desk/wall mount chassis (87 VAC- 264VAC)

MARKETS:

- √ Courtrooms
- √ Medical & MRI displays
- √ Air traffic control
- √ Military information displays
- √ Stock exchanges
- √ Concert & sporting event video displays
- √ Video walls
- √ CAD / CAM

SPECIFICATIONS: —

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VI	П	A	

Number of Video Channels 1 of DVI, RGsB (sync-on-green) or RGBHV (TTL H & V sync) SNR >60dB HDTV Resolution supported .. 480p, 720p, 1080i (RGB/DVI) 24-bits, no compression or scaling RGB Processing RGB: $75 \Omega / 714 \text{ mV p-p}$, Input Impedance/Level H&V 3-5V p-p, 1V p-p w/S.O.G

Data

Formats	RS-232
Rate RS-232	DC to 125 Kb/s
Bit Error Rate	10-9*

Audio

In/Out Impedance	600 Ohms (Bal. / Un Bal.)
Frequenct Response	10Hz to 20KHz
SNR	>90dB (Weighted) @ 1KHz.
In / Out Level	-8 to +8 dBm (4VP-Pmax.)
	(+18dBm available on Request)
Total Harmonic Distortion	< 0.01% @ 1 KHz
Resolution	24 Bit

Optical

Number of fibers	2
Fiber type	Multimode (62.5 or 50um)
Wavelength	850nm band
Operating distance	Up to 1km (50um fiber)*
	Up to 500m (62.5um fiber)*

Liivii oinentai	
Operating Temperature	-10°C to +50°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Connectors

Video	DVI-I (female)
	HD-15 female (on dongle)
Audio/Data	DB-25F
Optical	ST (two)
USB	4-pin USB (type B)
Power	See SR series chassis for details

Indicators (LEDs)

Power	Green
Diagnostic	Green (OK), Red (alarm)
Tx carrier	Green (OK), Red (alarm)
Rx carrier	Green (OK), Red (alarm)
DVI active	Green
RGB active	Green
SHV (sync H&V)	Green
SOG (sync on green)	Green
USB active	Green (Rx-Data), Red (Tx-Data)
Data Present	Green
Audio Present	Green (2)
Audio Overload	Red (2)
Physical	

Dimensions (2 Cards)	160 mm (6.3") L, 127 mm (5") W
,	40mm (1.60") W
Weight (2 Cards)	900 gms (32 Oz)
No. of Slots	2
Module	See SR-1000 Brochure
0124	

MTBF	>120,000 hours (a) Ground Fix
	35°C per MIL217F

Card		7 Watts
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^{*} Based on maximum resolusion & fiber bandwidth

Part Numbers:



Video



Audio









Card



Coating

. Diagnostic

Data For DVI products: RGB part of Part numbers should be changed to DVI.















RGB-R-110-0









RGB / DVI MONITOR

OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5/125 & 50/125	+2	-8	10	850	ST	15

^{**} Due to variations of drivers and diagnostic options, power shown @ max value