





#### **FEATURES:**

- Digital transmission of DVI / RGBHV / RGsB over one, multimode fiber
- Supports VGA, SVGA, XGA, SXGA & UXGA (640x480x60Hz to 1920x1200x60Hz)
- HDTV resolutions of 480p, 720p, 1080i and 1080p (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
- Auto detects & switches resolution & sync configurations
- 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 HD-15 dongle included for RGB interface
- USB interface for remote monitor adjustments
- Wide optical dynamic range: Eliminates need for optical attenuators
- Multimode Laser Based System

#### **DESCRIPTION:**

Meridian's ST/SR-1RG-0-E70 product is part of Meridian's DigiView™ product family. This state-of-the-art, cost-effective, high performance video transmission system transmits fullycompliant DVI, RGsB or RGBHV signals over one, multimode fiber. The supplied adapters (dongles) allow easy interface to standard RGBHV connectors on computers and monitors. This RGB product provides real-time, digitized transmission of DVI, RGB and H&V sync signals. Because it transmits signals in realtime, no video information is lost and is a perfect solution for dynamic video signals with crystal clear video and no color pixel skewing. Having both DVI and RGB input capability, this system offers an easy upgrade path from RGB to DVI systems with the same modules. In addition, this dual format capability allows the user to convert from one format to the other (RGB to DVI, DVI to RGB) to ensure compatibility with a wide variety of video sources and monitors. An example of this would be to supply a RGB signal at one end of the link and output a DVI signal at the other end.

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, check temperature of the card and load voltage. As with all of Meridian's DigiView products, this unit has a 10-year warranty.

Note: Options available for Mouse, Keyboard and Audio

### **CONFIGURATIONS:**

This ST/SR-1RG-0-E70 product is available as either a rack mount card that can be installed in either Meridian's desk chassis or in 19" racking frames. This product can also be configured as a stand-alone module by using the SR-500/S, SR-1000-/s.

1 or 2 slot desk / wall mount chassis (87 VAC- 264VAC)

## **MARKETS:**

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

# **SPECIFICATIONS:**

Input Impedance/Level .....

## Video

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 and 1080p(RGB/DVI) RGB Processing ..... 24-bits, no compression or scaling

> RGB:  $75 \Omega / 714 \text{ mV p-p}$ , H&V 3-5V p-p, 1V p-p w/S.O.G

Up to 500m (62.5um fiber)\*

# **Optical**

Number of fibers ...... 1 Fiber type ...... Multimode (62.5 or 50um) Operating distance ...... Up to 1km (50um fiber)\*

## **Connectors**

Video ...... DVI-I (female) HD-15 female (on dongle) Optical ...... ST (one) USB ...... 4-pin USB (type B) Power ...... See SR series chassis for details

# Enviromental

Operating Temperature ..... -10°C to +50°C Storage Temperature ..... -55°C to +85°C 

# Quality

MTBF ...... >150,000 hours @ Ground Fix 35°C per MIL217F

# 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)

# **Physical**

Dimensions (Card) ........... 160 mm (6.3") L, 127 mm (5") W 20mm (0.80") W Weight (Card) ...... 450 gms (16 Oz) No. of Slots ...... 1 

# Power \*\*

- Based on maximum resolusion & fiber bandwidth
- \*\* Due to variations of drivers and diagnostic options, power shown @ max value

# **Part Numbers:**



For DVI products: RG part of Part numbers should be changed to DV.



















**RGB 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