

One Channel IM Video System







FEATURES:

- Surface Mount Technology (SMT) for High Reliability and Repeatability
- Compact Modules and Card Units
- ST[™] Optical Connector
- 15MHz Video Bandwidth
- Meets EIA RS-170, RS-343A
- 9VAC-24VAC (Modules)
- Utilizes Internal Switching Power Supplies
- Meets RS-250C Transmission Requirements
- Compatible with All NTSC, PAL, or SECAM Systems
- LED Status Indicators Provide Rapid Indication of Critical Operating Parameters
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- Wide Optical Dynamic Range: Optical Attenuators are Never Required
- BNC Video Connector

DESCRIPTION:

The Series 100 is a Intensity Modulated (IM) state-of-theart fiber optic video system that transmits and receives real time video signals over one multimode fiber. PAL, SECAM or NTSC formats, in B&W or color, are seamlessly transmitted distances of up to 6Km. The Series 100 is compatible with the Series 130 triple transmitter and receiver cards for high-density applications. This product requires no user adjustments & features superior quality and performance. The 100's capabilities are enhanced by it's compatibility with Meridian's PC based SpectraSmart™ Network Management and Diagnostic software system. SpectraSmart™ supervises the operating parameters of the transmission system such as status on video levels, sync, voltage, temperature, optical levels, etc., as well as external equipment which are attached to the Meridian equipment. See the SpectraSmart™ brochure for more details.

CONFIGURATIONS:

The 100 product family is available in both stand-alone modules and rack mount cards. The cards can be installed in all of Meridian's card chassis, desk chassis and 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations The Series 100 is compatible with the Series 130 triple transmitter and receiver cards for high-density applications that can accommodate up to 54 transmitters or receivers per 19" chassis.

APPLICATIONS:

- √ Security and Surveillance
- √ Distance Learning

SPECIFICATIONS:

Video

Format NTSC, PAL, SECAM

Voltage/Impedance 1 Vp-p, 75 Ohm, 1.5 Vp-p max.

Bandwidth 5 Hz to 15 MHz @ -3 dB Differential Gain <2% typical

Differential Phase <2° typical SNR 67 dB weighted*

Return Loss >30 dB Field Tilt < 0.5% max.

Connectors

 $Optical \dots \dots ST^{TM}$

Power 2 Pin Terminal Block

Power**

Transmitter Card 1.8 W

Transmitter Module 80 mA @ 24 VAC

Reciever Card. 2 W

Reciever Module 90 mA @ 24 VAC Adapter for SR-500/S Model WP-24

Indicator

Module (Bi-Color LED):

Green Video Sync Present Red Video Sync Absent Off Absence of Power

Card (LED):

Red Power On

Physical

Dimensions:

..... 100 mm (4")H

Weight:

Module 170 g (6 oz.) Card 310 g (11 oz.)

Number of Rack Slots One

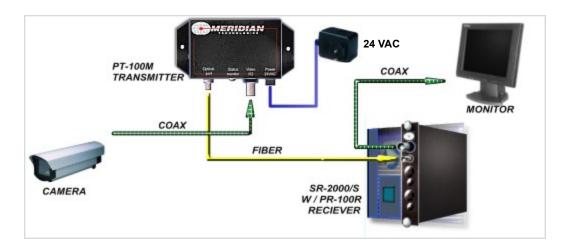
Environmental

Operating Temperature. . . . -30°C to +60°C Storage Temperature. -50°C to +85°C

Relative Humidity..... 0 to 95% Non-condensing

Quality

MTBF.....>230,000 hours @ Ground Fix 35°C per MIL217F



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
Multimode (SLED) 50 / 125	-18	-44	26	850	ST	29	5.4
Multimode (SLED) 50 / 125	-20	-44	24	1300	ST	29	5.0
Multimode (SLED) 62.5 / 125	-15	44	29	850	ST	29	6.0
Multimode (SLED) 62.5 / 125	-17	-44	27	1300	ST	29	5.6

^{*} Distance is limited to fiber loss and splices

^{*} As per RS-250C, measured @ 1Km (multimode)
** Due to variations of drivers and diagnostic options power shown at

maximum measurements
*** Add 30mm to include mounting flanges