

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-the-art 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 8Km. 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

Video 75 Ohm BNC (Gold Center Pin)
 Optical ST™
 Power 2 Pin Terminal Block

Power**

Transmitter Card 1.8 W
 Transmitter Module 80 mA @ 24 VAC
 Receiver Card 2 W
 Receiver 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:
 Module*** 90 mm (3.5")L, 60 mm (2.3")W
 25 mm (1")H
 Card 160 mm (6.3")L, 20 mm (0.8")W
 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

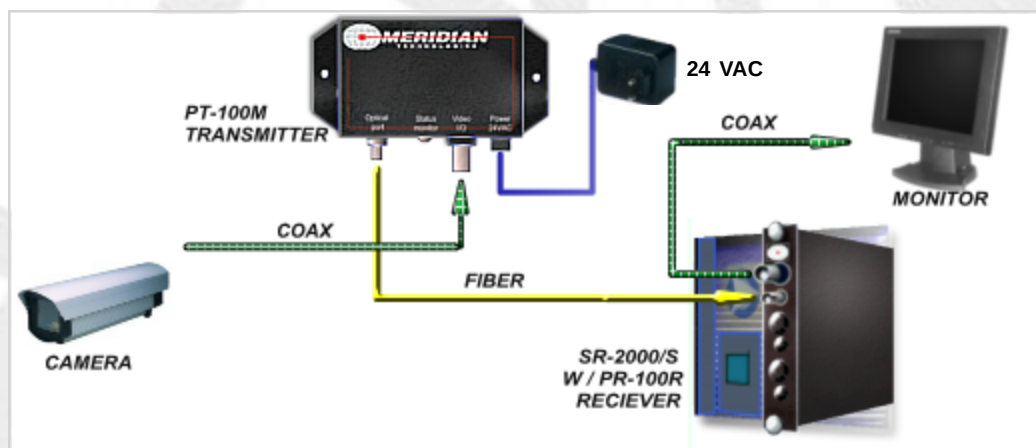
Quality

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

* 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



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode* (SLED)						
50/125	-18	-44	26	850	ST	34
50/125	-20	-44	24	1300	ST	34
62.5/125	-15	-44	29	850	ST	34
62.5/125	-17	-44	27	1300	ST	34

* Distance is limited to fiber loss and splices

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