MERIDIAN TECHNOLOGIES

SERIES 130

Three Channel IM Video System

FEATURES:

- Surface Mount Technology (SMT) for High Reliability and Repeatability
- Hot Swappable Cards
- ST™ Optical Connector
- 15 MHz Video Bandwidth
- Meets EIA RS-170, RS-343A
- SpectraSmart™ Compatible
- Independent Power Supplies @ Channel
- Meets RS-250C Transmission Requirements
- Compatible with All NTSC, PAL, or SECAM Systems
- 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 130 is a Intensity Modulated (IM) fiber optic video system that transmits and receives three real time video signals over three multimode fibers. PAL, SECAM and NTSC formats in B&W or color are seamlessly transmitted distances of 8Km (multimode).The 130'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., and external equipment which are attached to the Meridian equipment. See the SpectraSmart™ brochure for more details..

CONFIGURATIONS:

The Series 130 is available as a rack mount card that can be installed in all of Meridian's card chassis, desk chassis and 19" racking frames. The Series 130 can be converted to a module by installing it in the SR-500 card chassis. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations and can accommodate up to 54 transmitters or receivers in a 19" chassis for high density applications. The series 130 is compatible with series 100, single channel units. This product requires no user adjustments and features superior quality and performance.

APPLICATIONS:

Security and Surveillance
Military Communications
Intelligent Transportation System (ITS)

SPECIFICATIONS:

Video

Format	NTSC, PAL, SECAM
Voltage/Impedance	1Vp-p, 75 Ohm, 1.5Vp-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™, FC
Power (Module)	2 Pin Terminal Block

Power**

Transmitter Card	3.8 W
Reciever Card	4 W
Transmitter Module	170 mA@ 24 VAC
Reciever Module	160 mA@ 24 VAC
Adapter for SR-500/S	Model WP-24

Indicators (LEDs)

Red	Power On

Physical

Dimensions:	
Module (w/SR-500)	182 mm (7.16")L, 132 mm (5.21")W
	29 mm (1.15")H
Card	160 mm (6.3")L, (0.8")W
	10 mm (4")H
Weight:	
Module (w/SR-500)	900 g (32 oz.)
Card	450 g (16 oz.)
Number of Rack Slots	One

Enviromental

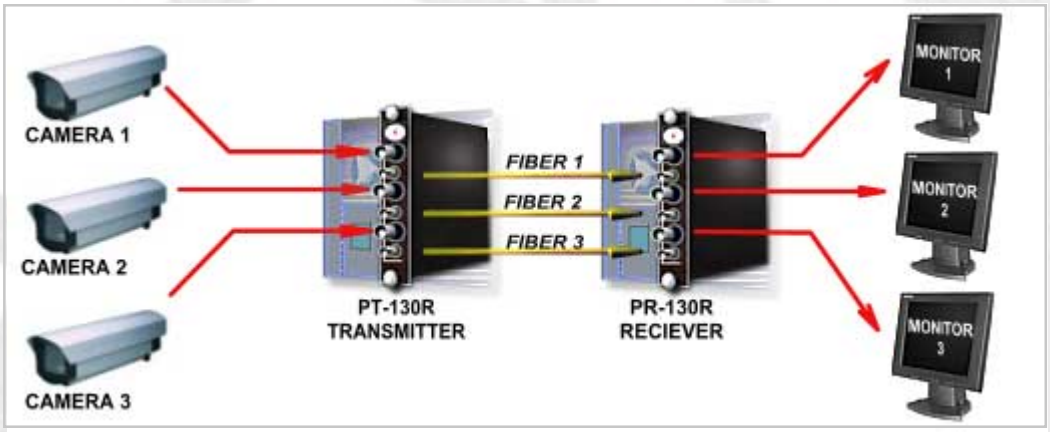
Operating Temperature	-30°C to +60°C
Storage Temperature	-50°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF	>160,000 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*



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Reciever 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*

Meridian Technologies Inc.
700 Elmont Road. •Elmont, NY 11003 • 516. 285. 1000 • FAX 516. 285. 6300 • E-mail sales@meridian-tech.com
Visit our web side: www.meridian-tech.com or www.meridian-tech.tv