

Three Channel Wideband FM Video System



FEATURES:

- Surface Mount Technology (SMT) for High Reliability and Repeatability
- Hot Swappable Cards
- ST™, FC Optical Connector
- 30MHz 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 195 is a Frequency (FM) Modulated fiber optic video system that transmits and receives three real time 30 Mhz video signals over three multimode fibers. PAL, SECAM and NTSC formats in B&W or color are seamlessly transmitted distances of 3Km (multimode) and 100Km (singlemode). The 195'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, FM Carrier Detect, optical levels, etc., and external equipment which are attached to the Meridian equipment. See the SpectraSmart™ brochure for more details..

CONFIGURATIONS:

The Series 195 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 195 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. Series 195 is compatible with single channel, series 145 units. This product requires no user adjustments and features superior quality and performance.

APPLICATIONS:

Security and Surveillance
 Military Communications
 Intelligent Transportation System (ITS)
 Radar

SPECIFICATIONS:

Video

Format	NTSC, PAL, SECAM
Voltage/Impedance	1Vp-p, 75 Ohm, 1.5 Vp-p max.
Bandwidth	5 Hz to 30 MHz @ -3 dB
Differential Gain	<2% typical
Differential Phase	<2° typical
SNR	64 dB weighted*
Return Loss	>30 dB
Field Tilt	<0.5% max.
Carrier Frequency	150 MHz

Indicators (LEDs)

Red Power On

Physical

Dimensions:	
Module (w/SR-500).....	181 mm (7.15") L, 24 mm (.95") W
.....	132mm(5.20") H
Card	160 mm (6.3") L, 20 mm (0.8") W
.....	100 mm (4") H
Weight:	
Module (w/SR-500).....	900 g (32 oz.)
Card	450 g (16 oz.)
Number of Rack Slots	One

Connectors

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

Enviromental

Operating Temperature. . .	-40°C to +60°C
.....	-55°C to +85°C
Storage Temperature.	0 to 95% Non-condensing

Power

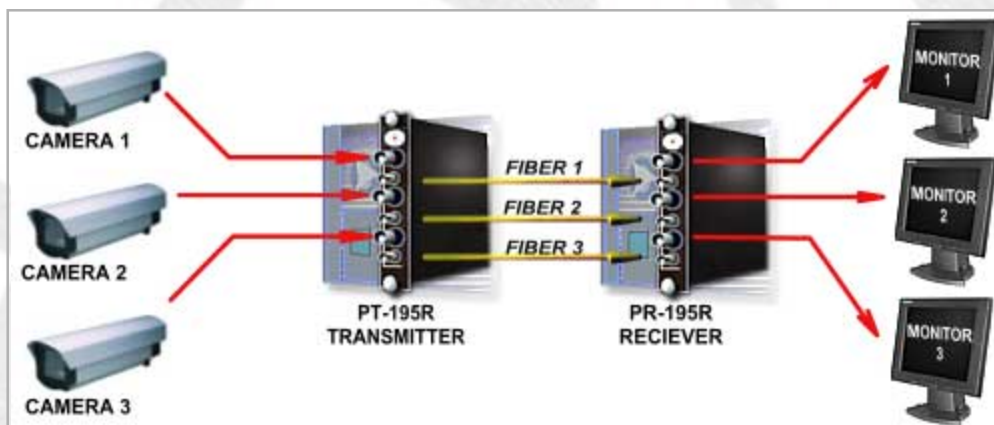
Card.	3 W
Module	120 mA @ 24 VAC
Adapter for SR-500/S.	Model WP-24

Quality

MTBF.	>165,000 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	-36	18	850	ST	34
50/125	-20	-36	16	1300	ST	34
62.5/125	-15	-36	21	850	ST	34
62.5/125	-17	-36	19	1300	ST	34

* Distance is limited to fiber loss, splices