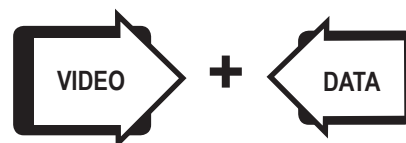


FM Video with Pelco Coaxitron return data



FEATURES:

- Supports Pelco Video & Coaxitron PTZ camera control
- 7 MHz video bandwidth
- Laser Based Back-Biased Photo Detection Circuitry for Stable Optical Output Over Full Temperature Range (Singlemode)
- ST™, FC Optical Connector
- Hot Swappable Cards
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- Meets EIA RS-170, RS-343A
- Frequency Modulated (FM) Transmission
- SpectraSmart™ Compatible
- Meets NEMA TS1/TS2 and Caltrans Specifications
- Utilizes Internal Switching Power Supplies
- 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
- 75 Ohm BNC Video Connector

DESCRIPTION:

The Series 200 and 200i are Frequency Modulated (FM), fiber optic video systems that transmit one channel of high quality video along with the integrated up-the-coax PTZ camera control data for Pelco telemetry systems. PAL, SECAM or NTSC formats, in B&W or color, are seamlessly transmitted. The Series 200's capabilities are enhanced by its 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, FM carrier detect, voltage, temperature, optical levels, etc., and external equipment which are attached to the Meridian equipment. See the SpectraSmart™ brochure for more details.

* Due to Pelco Coaxitron data format, end-to-end distances are limited to approximately 1.5km, max.

CONFIGURATIONS:

The 200 product family is available as rack mount cards that 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. This product requires no user adjustments & features superior quality and performance.

APPLICATIONS:

Security and Surveillance
 Military Communications
 Intelligent Transportation System (ITS)
 Access Control

SPECIFICATIONS :

Video

Format	NTSC, PAL, SECAM
Voltage/Impedance	1 Vp-p, 75 Ohm, 1.5 Vp-p max.
Bandwidth	5Hz to 6.8 MHz @ -3dB
Differential Gain	<2% typical
Differential Phase	<1.5° typical
SNR	60 dB weighted*
Return Loss	>30 dB
Field Tilt	<0.5% max.
Carrier Frequency	70 MHz

Data

Formats	Pelco Coaxitron ***
Bit Error Rate	10 ⁻⁹ *

Connectors

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

Indicators (LEDs)

Red	Power On
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Power **

Card	2.5 W
Module	100 mA @ 24 VAC
Adapter for SR-500/S	Model WP-24

Physical

Dimensions:

Module (w/SR-500)	182 mm (7.16") L, 132 mm (5.21") W
	29 mm (1.15") H
	160 mm (6.3") L, 20 mm (0.8") W
Card	100 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	-45°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

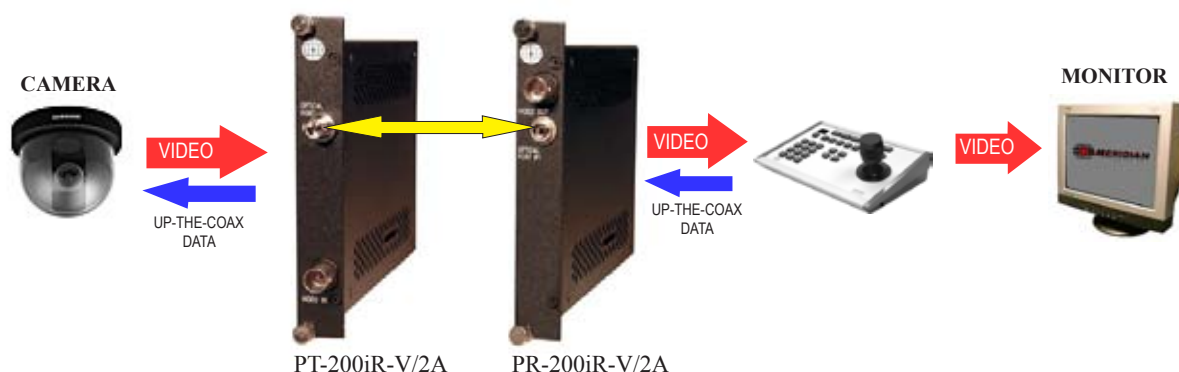
Quality

MTBF	>200,000 hours @ Ground Fix 35°C per MIL217F
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* As per RS-250C, measured @ 1Km (multimode/singlemode)

** Due to variations of drivers and diagnostic options, power shown at maximum measurements

*** Coaxitron is a registered trademark of PELCO



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode* (SLED)						
62.5/125	-13	-34	21**	850	ST	39
62.5/125	-16	-34	18**	1300	ST	39
62.5/125	-15/-18	-33/-33	15**	850/1300	ST	39
Singlemode (Laser)						
9/125	-7***	-36	29	1310	ST, FC	41
9/125	-10***	-36	26	1550	ST, FC	41
9/125	-10/-10	-34	24	1310/1550	ST, FC	41

* Distance is limited to fiber loss, splices and fiber bandwidth

** For 50/125um fiber, subtract 3dB

*** Higher output lasers available

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