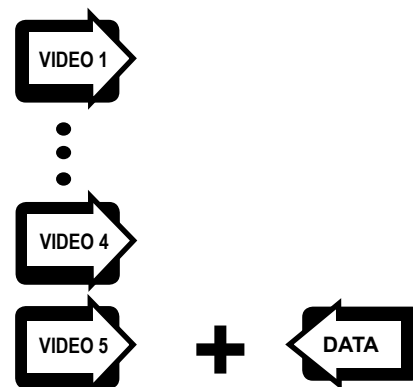


Digital 5 Channel Video Multiplexer with One Return Channel of Pelco Coaxitron Control Data



FEATURES:

- Five Digitally Encoded 8-bit or 10-bit Video Signals with one Integrated "up-the-coax" PTZ Camera Control and two fixed camera channels
- Model supports Pelco Video & Coaxitron PTZ Camera Control
- 7 MHz Video Bandwidth
- Meets RS-250C Transmission Specifications
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Singlemode
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart™ Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Cards
- Laser Back - Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range
- Meets NEMA TS1 / TS2 & CALTRANS Specs.
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats

DESCRIPTION:

The DT/DR-5V/1M and DT/DR-5W/1M series fiber optic transmission systems takes advantage of Meridian's new digital encoding technology to transmit four real-time, high quality, 8-bit or 10-bit video signals with integrated up-to-coax PTZ camera control data for Pelco telemetry systems. Each camera's PTZ can be individually controlled. Both, multimode and singlemode, one fiber versions are available. In addition, 4 channels of fixed video can also be transmitted on the same fiber. The functionality of DT/DR-5V/1M and DT/DR-5W/1M series are further enhanced by their compatibility with Meridian's PC based SpectraSmart, Network Management and Remote Diagnostic Software System. SpectraSmart supervises the operating parameters of the transmission system such as status on video levels, sync, carrier detect, voltage, temperature, optical levels, data present etc. See the SpectraSmart brochure for more details.

Note: Due to controller protocol limitations, distance on multimode or singlemode systems limited to approximately 2Km

CONFIGURATIONS:

The DT/DR-5V/1M and DT/DR-5W/1M products is available as rack mount cards and modules that can be installed in 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. These systems can be made a standalone system by using the SR-1000/s, 2 slot desk / wall mount chassis (87VAC-264VAC)

MARKETS:

- ✓ Security and Surveillance
- ✓ Intelligent Transportation System (ITS)
- ✓ Access Control Systems
- ✓ Campus Lecture Networks

SPECIFICATIONS:

Video

Format	NTSC, PAL, SECAM
Voltage/Impedance	1 Vp-p, 75 Ohm, 1.5 Vp-p max.
Bandwidth	5 Hz to 6.8 MHz @ -3 dB
Differential Gain	<0.6%
Differential Phase	<0.3°
SNR for 8-Bit Video	>63 dB (weighted)*
SNR for 10-Bit Video	>67 dB (weighted)*
Return Loss	>30 dB
Field Tilt	<0.5% max.

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser over current
1 - Bi-color	RX Carrier - Present / Error
1 - Bi-color	RX optical signal - Present / Absent
5 - Green	Sync. Present
5 - Bi-Color	Video Present / Overload
1 - Green	Data Present
1 - Green	Data Sync Lock

Data (2 channels)

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

Optical

Fiber Data Rate	1 Gb/s
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Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	ST, FC
Power	See SR-1000 Brochure for details

Power **

Card	10 Watts
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Environmental

Operating Temperature	-40°C to +75°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Physical

Dimensions:	
Card	160 mm (6.3") L, 100 mm (4") W 44 mm (1.7") H
Weight:	
Card	450 gms (16 Oz)
No. of Slots	2

Quality

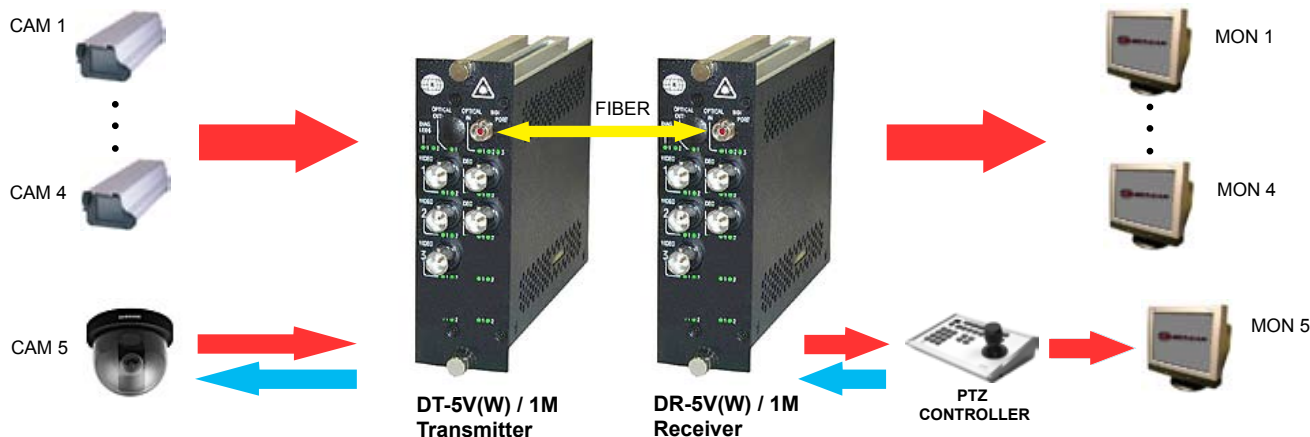
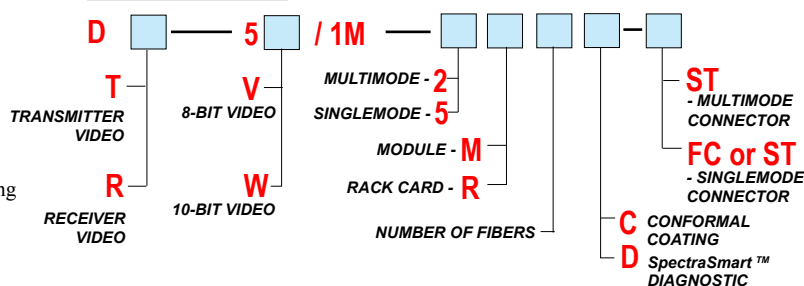
MTBF	>220,000 hours @ Ground Fix 35°C per MIL217F
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* measured @ max. optical budget

** Due to variations of drivers and diagnostic options, power shown @ max value

*** Coaxitron is a registered trademark of PELCO

Part Numbers:



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5 / 125	-3	-23	20	1300 / 850	ST	23
Singlemode (FP Laser) 9 / 125	-3	-23	20	1310 / 1550	ST, FC	23
Singlemode (DFB Laser) 9 / 125	+3	-23	26	1310 / 1550	ST, FC	23

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