

FEATURES:

- Up to 64 independent Real Time Digitally encoded Video Signals on a Single Fiber
- 1470 - 1610 nm Wavelengths Supported.
- 7 MHz Video Bandwidth
- Meets RS-250C Medium Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- 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
- Laser Back - Biased Photo Detector Circuitry For Stable Optical Output Over Full Temperature Range.
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats

DESCRIPTION:

The CWDM Video Transport System from Meridian is capable of transmitting up to 64 independent real-time video signals over one, singlemode fiber. The System utilizes CWDM (Coarse Wavelength Division Multiplexing) technology and can manage up to 8 independent standard ITU wavelengths. Each of these wavelengths can transmit 8 real-time video signals over a distance of up to approximately 100km. In addition to transporting real-time video signals, the system can also support supplemental data signals for camera PTZ and access control requirements. The Meridian CWDM systems requires only one, singlemode fiber and can be outfitted with either ST or FC optical connectors. For special system requirements, please call Meridian's application engineers to configure a system to meet your specific needs. The CWDM Video transport systems are completely compatible with Meridian's SpectraSmart Network Management System.

CONFIGURATIONS:

The CWDM products are available as rack mount units that are suitable for mounting in the following Meridian card chassis : SR-2001/AS1 - 18 Slot Rack with 1 Power Supply, SR-2001/AR1 - 14 Slot Rack with 2 Redundant Power Supply or SR-2000/S1-PC - the Meridian Spectra Smart PC Based Diagnostic Rack for Remote Network Management. See Subrack Spec. Sheets for further details.

MARKETS:

Security and surveillance - Campuses / Cluster Video
 Intelligent transportation systems (ITS)- Highways / Intersections
 Video Transports for City Police monitoring networks
 Audio Banks - concerts/ Auditoriums
 Access Control - Data Banks

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	<1%
Differential Phase	<0.7°
SNR	>60 dB weighted
Return Loss	>30 dB
Field Tilt	<0.5%
No. of Video Channels	16 -64

Connectors

Video	75 OHM BNC (Gold Center Pin)
Optical	ST, FC
Power	IEC (3 - Prong)

Quality

MTBF	>100,000 hours @ Ground Fix 35°C per MIL217F
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Power

87VAC ~ 264VAC

Model No.

DT-16V-5	16 Ch. CWDM Transmitter, SM.	DR-16V-5	16 Ch. CWDM Receiver, SM
DT-24V-5	24 Ch. CWDM Transmitter, SM.	DR-24V-5	24 Ch. CWDM Receiver, SM
DT-32V-5	32 Ch. CWDM Transmitter, SM.	DR-32V-5	32 Ch. CWDM Receiver, SM
DT-40V-5	40 Ch. CWDM Transmitter, SM.	DR-40V-5	40 Ch. CWDM Receiver, SM
DT-48V-5	48 Ch. CWDM Transmitter, SM.	DR-48V-5	48 Ch. CWDM Receiver, SM
DT-56V-5	56 Ch. CWDM Transmitter, SM.	DR-56V-5	56 Ch. CWDM Receiver, SM
DT-64V-5	64 Ch. CWDM Transmitter, SM.	DR-64V-5	64 Ch. CWDM Receiver, SM

- NOTE: 1) CWDM - MUX / DE-MUX are 2 Slot wide each.
2) Specify FC or ST at the time of the order, Default connector is FC on the System.

Indicators (LEDs) (Per 8 Channel Module)

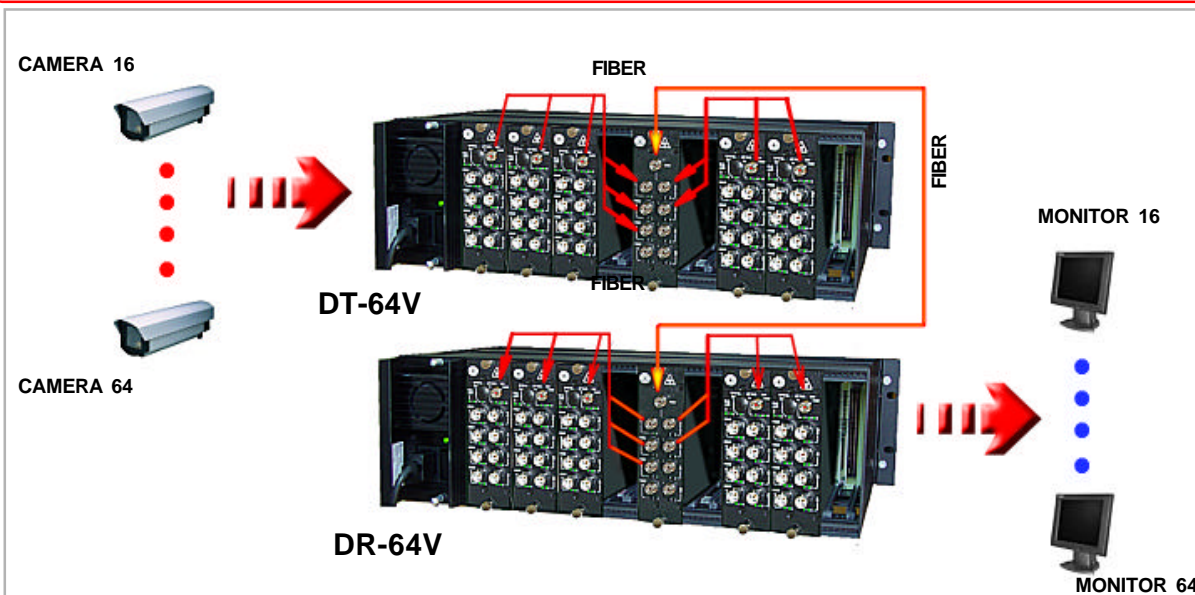
1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
1 - Bi-color	RX Optical Signal - Present / Absent
8-Green	Sync. Present
8-Bi-color	Video Present / Overload

Physical

Standard Systems comes Packaged in 19" rack, 3U High
 Dimensions: 19" L X 11" D, 5.25" H
 (483 mm,X 279 mm X 133mm)
 Weight: <20 Lbs / 9.1 Kg

Enviromental

Operating Temperature -0 °C to +70°C
Storage Temperature -55°C to +85°C
Relative Humidity 0 to 95% Non-condensing



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Singlemode (Laser) 9 / 125	0	-28	28	1470 - 1610	ST / FC	28

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