

DESCRIPTION

The IFS VT1505WDM-Pelco is a miniature video transmitter and data receiver using one multimode fiber optic cable. It plugs directly into the Pelco SPECTRA III and SPECTRA IV DOME data converter connector. The VT1505WDM-Pelco is designed for the Pelco Coaxitron protocol and has identical performance as the standard VT1505WDM and is compatible with the standard VR1505WDM (R3). Designed for easy and fast installation the VT1505WDM-Pelco has no external electrical connections and requires no external power.

FEATURES

- AM Video Transmission
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- Supports Pelco Coaxitron Protocol
- Transparent to Data Encoding
- Full Range Automatic Gain Control (AGC)
- No In-field Electrical or Optical Adjustments Required
- Integrated WDM for Greater Product Reliability
- Distances up to 1 miles (1.6 km) without Repeaters
- Available in FiberPakTM
- Comprehensive Lifetime Warranty



- A & E Specifications, (CSI)
- AutoCAD Drawings
- Operation Manuals
- Technical Bulletins

ORDERING INFORMATION

	PART NUMBER	DESCRIPTION	FIBERS REQUIRED	OPTICAL PWR BUDGET	MAX. DISTANCE*
MULTIMODE 62.5/125μm**		Video Transmitter/Data Receiver (850/1310 nm) Video Receiver/Data Transmitter (1310/850 nm)	1	14 dB	1 mile (1.6 km)

^{*} Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth. ** For 50/125 Fiber, subtract 4 dB from Optical Power Budget.





TECHNICAL SPECIFICATION

VT/VR1505WDM-PELCO

VIDEO WITH ONE WAY DATA

SPECIFICATIONS

VIDEO

Video Input: 1 volt pk-pk (75 ohms) Bandwidth: 5 Hz - 10 MHz*

Differential Gain: <5%
Differential Phase: <5°
Tilt: <1%

Signal-to-Noise Ratio (SNR): > 55 dB @ 10 dB ATTN.

DATA

Data Interface: Coaxitron

WAVELENGTH 850/1310 nm, Multimode

NUMBER OF FIBERS

VT1505WDM Series: 1

CONNECTORS

Optical: ST

ELECTRICAL & MECHANICAL

Power:

VT: From Pelco DOME
Circuit Board: Meets IPC Standard
Shipping Weight: < 1/2 lb./.23 kg

Size (in.cm.) (LxWxH) 2.375 x 2.25 x .875 in., 8.6 x 5.715 x 2.2 cm

ENVIRONMENTAL

MTBF: > 100,000 hours Operating Temp: -40° C to $+74^{\circ}$ C Storage Temp: -40° C to $+85^{\circ}$ C

Relative Humidity: 0% to 95% (non-condensing)†

 \dagger May be extended to condensation conditions by adding suffix '–C' to model number for conformal coating.

• At 6 dB attentuation

AGENCY COMPLIANCE







Monitor

MADE IN THE USA

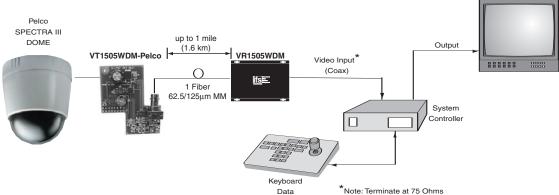
Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter ${\bf J}$

OPTICAL POWER BUDGET

FIBER	WAVELENGTH-	TRANSMITTER		RECEIVER		OPTICAL	MAX.
		MODEL	OUTPUT	MODEL	SENSITIVITY	PWR BUDGET	DISTANCE*
Multimode 62.5/125µm*	1 850/1310 nm	VT1505WDM-Pelco	25 μw (-16 dBm)	VR1505WDM	1 μw (-30 dBm)	14 dB	1 mile (1.6 km)

^{*} Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth. ** For 50/125 Fiber, subtract 4 dB from Optical Power Budget.

SYSTEM DESIGN





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