

## DESCRIPTION

The IFS VT1500WDM-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 VT1500WDM-Pelco has identical performance as the standard VT1500WDM and is compatible with the standard VR1500WDM (R3). Designed for easy and fast installation the VT1500WDM-Pelco has no external electrical connections and requires no external power.

## FEATURES

- AM Video Transmission
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- Supports Pelco RS-422 Data Interface
- 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 2.5 miles (4 km) Without Repeaters
- Available in FiberPak™
- Comprehensive Lifetime Warranty



Available at: **www.ifs.com**

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

## ORDERING INFORMATION

	PART NUMBER	DESCRIPTION	FIBERS REQUIRED	OPTICAL PWR BUDGET	MAX. DISTANCE*
<b>MULTIMODE 62.5/125µm**</b>	VT1500WDM-Pelco	Video Transmitter/Data Receiver (850/1310 nm)	1	14 dB	2.5 miles (4 km)
	VR1500WDM	Video Receiver/Data Transmitter (1310/850 nm)			

\* 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 VIDEO WITH REVERSE DATA

## VT/VR1500WDM-PELCO

### 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:	RS-422
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#### WAVELENGTH

850/1310 nm, Multimode

#### NUMBER OF FIBERS

VT/VR1500WDMPELCO:	1
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#### CONNECTORS

Optical:	ST
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### 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° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)†

† May be extended to condensation conditions by adding suffix '-C' to model number for conformal coating.

• At 6 dB attenuation

### AGENCY COMPLIANCE

**FCC** PART 15  
COMPLIANT



### MADE IN THE USA

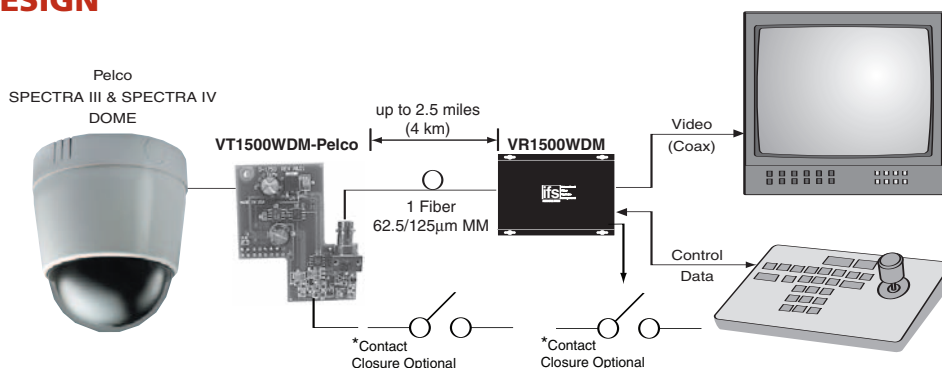
Complies with FDA Performance Standard for Laser Products,  
Title 21, Code of Federal Regulations, Subchapter J

### OPTICAL POWER BUDGET

FIBER	WAVELENGTH	TRANSMITTER		RECEIVER		OPTICAL PWR BUDGET	MAX. DISTANCE*
		MODEL	OUTPUT	MODEL	SENSITIVITY		
Multimode 62.5/125µm**	850/1310 nm	VT1500WDM-Pelco	25 µw (-16 dBm)	VR1500WDM	1 µw (-30 dBm)	14 dB	2.5 miles (4 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



International  
Fiber  
Systems  
Incorporated

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Due to our continued effort to advance technology, product specifications are subject to change without notice.