



## 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 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>	VT1505WDM-Pelco	Video Transmitter/Data Receiver (850/1310 nm)	1	14 dB	1 mile (1.6 km)
	VR1505WDM	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.

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

