

DESCRIPTION

The IFS FiberPak™ FP1500WDM fiber optic transmission kit includes everything you need to transmit a CCTV signal with one-way PTZ control data on one multi-mode optical fiber. The kit includes a transmitter and receiver that are designed to be universally compatible with major CCTV camera manufactures and supports RS-232 and RS-422 data interfaces and all major data protocols. In addition the kit includes wall mount AC transformers for both transmitter and receiver as well as a complete installation and operations manual. FiberPak™ Videolinks Plug-and-play design and included accessories make selecting the right fiber optic modules for your installation easy.

APPLICATION EXAMPLES

Compatible with:

- Kalatel® Video and One-Way RS-422 Data
- Pelco® Video and One-Way Type "P" Data
- Pelco® Video and One-Way Type "D" Data
- Sensormatic AD® Video and One-Way Manchester Data
- Vicon® Video and One-Way Modupulse Data

FEATURES

- AM Transmission
- Automatic Resettable Fuses on all Power Lines
- Power Supplies and Installation Manuals Included
- Supports RS-232 or RS-422 Data Interfaces
- Transparent to Data Encoding/Compatible with Major CCTV Camera Manufacturers
- Full Range Automatic Gain Control (AGC)
- No In-field Electrical or Optical Adjustments Required
- NTCIP Compatible • Full Color Compatibility
- Tested and Certified by an Independent Testing Laboratory for Full Compliance with the Environmental Requirements (Ambient Operating Temperature, Mechanical Shock, Vibration, Humidity with Condensation, High-Line/Low-Line Voltage Conditions and Transient Voltage Protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Power, Video Presence In, Data Out, and AGC Status Indicating LED's to Monitor System Performance
- Integrated WDM for Greater Product Reliability
- NTSC, PAL, SECAM Compatible
- Distances up to 2.5 miles (4 km) without Repeaters
- 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*
MULTIMODE 62.5/125µm**	FP1500WDM	FiberPak™ Video Transmitter (850/1310 nm) FiberPak™ Video Receiver (1310/850 nm)	1	14 dB	2.5 miles (4 km)
ACCESSORIES♦	PS-12VDC 12 Volt DC Plug-in Power Supply (Optional) PS-12VDC-230 12 Volt DC Plug-in Power Supply, 230 VAC Input (Included if specified at time of order)				

* 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.

♦ All accessories are third party manufactured.



TECHNICAL SPECIFICATION

FP1500WDM FIBERPAK™ VIDEO LINK

VIDEO WITH ONE-WAY DATA TRANSMISSION KIT

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 232, RS-422
 Data Format: NRZ, NRZI, Manchester, Bi-phase
 Data Rate: DC-100 Kbps (NRZ)

SYNC

Output Voltage: 4 volt negative pulse
 Impedance: 75 ohms

WAVELENGTH

850/1310 nm, Multimode

NUMBER OF FIBERS

VT/VR1500: 2
 VT/VR1500WDM: 1

CONNECTORS

Optical: ST
 Power and Data: Terminal Block with Screw Clamps
 Video and Sync: BNC (Gold Plated Center-Pin)

ELECTRICAL & MECHANICAL

Power:
 Transmitter: 24 VAC C.T. @ 200 mA
 Receiver: 12 VDC @ 500 mA
 Number of Rack Slots: 1
 Current Protection: Automatic Resettable Solid-State Current Limiters
 Circuit Board: Meets IPC Standard
 Size (in./cm.) (LxWxH)
 Surface Mount: 7.0 x 4.9 x 1.0 in., 17.8 x 12.5 x 2.5 cm
 Shipping Weight: < 2 lbs./0.9 kg

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.

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT



MADE IN THE USA

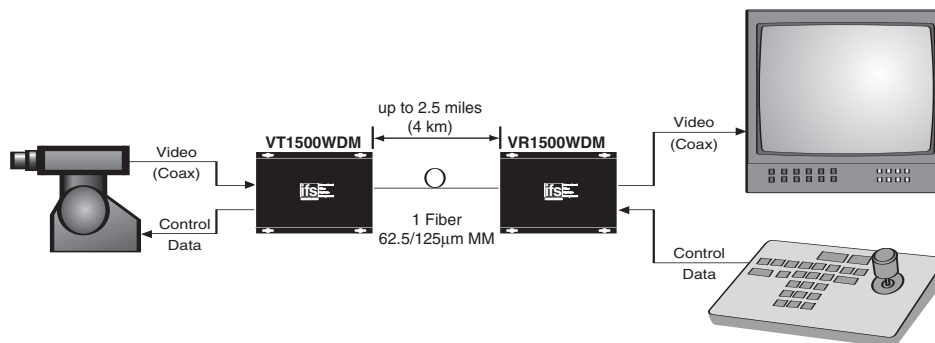
Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

OPTICAL POWER BUDGET

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

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SYSTEM DESIGN



International
 Fiber
 Systems
 Incorporated

TEL (203)426-1180 ■ FAX (203)426-3326 ■ www.ifs.com ■ sales@ifs.com
 16 Commerce Road ■ Newtown, CT 06470

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