

Overview

The VT1500WDM-Kalatel video transmitter and data receiver module is designed for use in the Kalatel Cyberdome™ dome system with Cybermount™ side conduit entry. This module allows the dome camera to be connected directly to optical fiber, providing a fully integrated solution. This unit mounts directly into the dome's wallmount, replacing the traditional power, data and coaxial cable connection within the arm. The IFS VT1500WDM-Kalatel allows for the simultaneous transmission of video and one-way data over one optical fiber. The unit supports the RS-422 data protocol that Kalatel utilizes for camera pan, tilt and zoom control. The unit also has a contact closure input for adding a device such as a dome tamper switch or alarm input, enabling a signal to be transmitted back to the monitoring location.

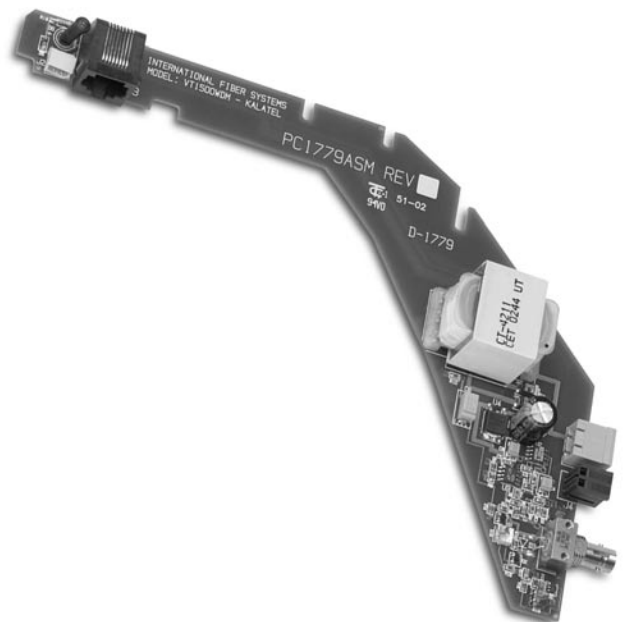
The optical output of the dome is compatible with the standard IFS VR1500WDM receiver or VR1500WDM-CC, and is designed for quick and easy installation into the Cybermount™ side conduit entry arm and utilizes one multimode optical fiber. In addition, the VT1500WDM-Kalatel transceiver is designed to be an integral part of the Cyberdome™ system, there are no external electrical connections, the fiber module requires no external power source and no additional hardware at the camera site.

Standard Features

- AM Video Transmission
- NTSC, PAL Compatible
- Supports Kalatel RS-422 Data Interface
- Transparent to Data Encoding
- Full Range Automatic Gain Control (AGC)
- No External Power Supply Required
- 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

Video with One-Way Data and Contact Closure

Designed for use in the Kalatel Cyberdome™ dome system with Cybermount™ side conduit entry.



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Specifications subject to change without notice

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Specifications

Video
 Video Output: 1 volt pk-pk (75 ohms)
 Bandwidth: 5 Hz - 10 MHz (At 6 dB attenuation)
 Differential Gain: <5%
 Differential Phase: <5°
 Tilt: <1%
 Signal-to-Noise Ratio (SNR): >55 dB @ 10 dB attn.

Data
 Data Interface: RS-422

Wavelength 850/1310 nm, Multimode

Number Of Fibers VT1500WDM-KL, VR1500WDM, VR1500-CC: 1

Connectors
 Optical: ST
 Power, Heater Power and CC: Terminal Block with Screw Clamps
 Data: RJ-45

Electrical & Mechanical
 Power:
 VT1500WDM-Kalatel: 24 VAC
 VR1500WDM: 12 VDC
 VR1500WDM-CC: 12 VDC
 Circuit Board: Meets IPC Standard
 Shipping Weight: < 1/2 lb./23 kg

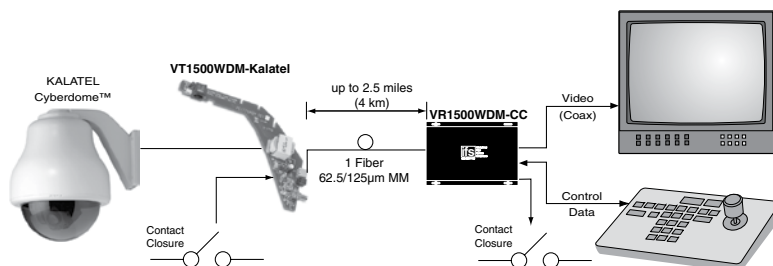
Environmental
 MTBF: > 100,000 hours
 Operating Temp: -40° C to +74° C
 Storage Temp: -40° C to +85° C
 Relative Humidity: 0% to 95% (non-condensing)†

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



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

System Design



Ordering Information

Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	VT1500WDM-Kalatel VR1500WDM VR1500WDM-CC	1	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.

