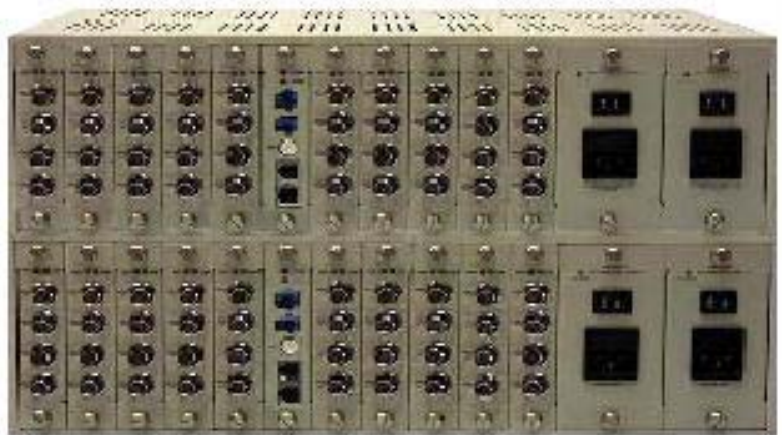


## Features

- ◆ Multiplex 80 Channels Video, 80 Channels Stereo Audio, and 80 Channels Bi-directional Data
- ◆ Compatible with NTSC, RS-250C, PAL, and CCIR Video-Formats
- ◆ Compressed Video Digital and Audio
- ◆ Software Adjustable Bandwidth
- ◆ Matrix Switch Video Receiver Output, Software Configurable
- ◆ Daisy-Chain configuration, Cascade up to 320 individual source locations (for lower video signal quality applications)
- ◆ Transmission up to 40/80 Km Between Two Locations
- ◆ NMS (GUI) Package Option
- ◆ TCP/IP and SNMP Option



## 80 Channel Add/Repeat Video, Stereo Audio, Bi-directional Data Fiber Optic Multiplexer, Video Matrix Switch, Plus+ NMS

## Overview

The MULTIDYNE DVM-80D is an extremely flexible Add/Repeat Fiber Optic Digital Multiplexer for transmitting up to 80 channels of video, 80 channels of stereo audio, and/or 80 channels of data via one fiber optic cable. It allows the users the ability to transmit these signals from multiple Remote Locations to the Control Center and transmit data control signals from Control Center back to Remote Locations over one single mode fiber optic cable. This robust transmission platform additionally offers a full (NMS) monitoring capability at each node.

The DVM-80D is compatible with NTSC, PAL and CCIR video and standard data interfaces such as RS-232 and RS-422. The MULTIDYNE 80 channel multiplexers may functionally be cascaded to bring together and deliver, as many as 80 individual source locations. The DVM-80D at the receiver end also provides the video matrix switch function that allows users to switch video transmitter sources. **For lower video signal quality applications, the system can be cascaded up to 320 source locations.** Long transmission distances are easily accommodated because each node becomes a repeater point for the digital signal, allowing for vast overall transmission considerations.

The DVM-80D uses compressed analog to digital modulation and ATM Packet transmission technologies. Each compressing video channel bandwidth is software configurable for its signal quality requirement. Digital signaling offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points.

The DVM-80D may be further maintained with the optional MULTIDYNE *Plus+ (NMS) Network Management & (GUI) Interface Software Package*. This permits users the ability to monitor the entire system for status alarms.

Applications for the DVM Series include video conferencing, long haul CCTV, campus fiber networks, ITS traffic surveillance and SCADA systems applications.

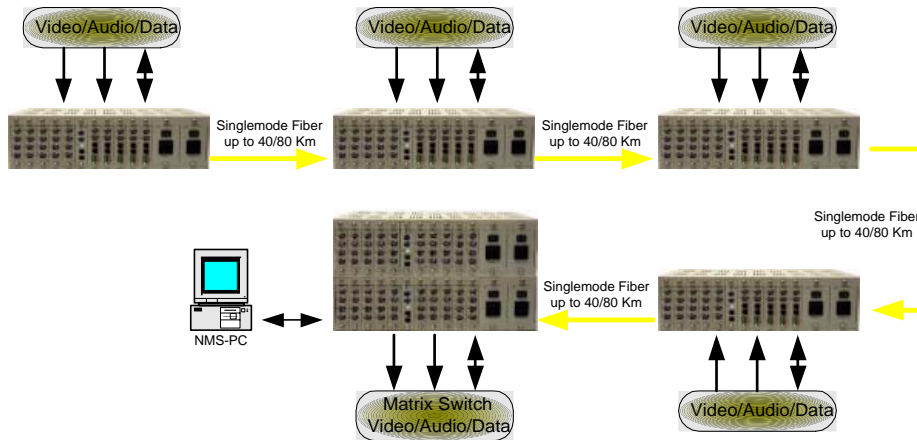
## Applications

- ◆ Long Distance CCTV
- ◆ ITS Traffic Surveillance
- ◆ Railway System Surveillance
- ◆ Utility SCADA Network

# Specifications

<b>System:</b>		<b>Video:</b>	
Error Rate	1 in 10 <sup>9</sup>	Channel	40 per Box
NMS Display	GUI RS-232 ports	Cascadable up to Format	320 (Lower Signal Quality) NTSC, RS-170, PAL, CCIR
Indicators	PWR, LINKS	Signal Level	1 Vp-p
NMS Connector	RJ12	Video Digitization	8 bits, 13 Mega Samples
Matrix Switch	Receiver Output	Bandwidth	6.5 MHz
<b>Optical:</b>		Differential Gain	<2 %
Transmitter	Laser 1310 nm or 1550 nm	Differential Phase	<1.3 <sup>0</sup>
Receiver	PIN	SNR	> 60 dB (weighted)
Power Budget	20 dB SM	Connector	BNC
Connectors	ST, FC, SC	<b>Audio:</b>	
<b>Environment:</b>		Channel	80 Stereo/160 Mono
Operating	-20 <sup>0</sup> C to 70 <sup>0</sup> C	Audio Input	Unbalanced
Storage	-40 <sup>0</sup> C to 95 <sup>0</sup> C	Impedance	600 Ohms
Humidity	95% Non-Condensing	Freq. Response	10 Hz to 20 Khz
<b>Power:</b>		SNR	>70 dB Weight
Power Supply Module	90-240 VAC / 47-63 Hz	Connectors	Terminal Blocks
	48 VDC (Option)	<b>Data:</b>	
<b>Physical:</b>		Channels / Rate	80 at 19.2 Kbps per Channel
Dimensions	5.25" x 19" x 10" (Two)	Format	RS-232, RS-422
		Connector	RJ45

## Example Application



## Typical DVM-80D System Configuration

### Ordering Information:

Model	Description
DVM80D-TX-ST-03-AC	Main Chassis with Transmitter Multiplexer Module, 1300nm, ST, 120 VAC P/S
DVM80D-RX-ST-03-AC	Main Chassis with Receiver Multiplexer Module, 1300nm, ST, 120 VAC P/S
DVM80D-PS-AC	120 VAC Power Supply Module
DVM80D-TXM-ST-03	Transmitter Multiplexer Module with 1300 nm Laser, ST Connector
DVM80D-RXM-ST-03	Receiver Multiplexer Module with 1300 nm Laser, ST Connector
DVM80D-4VT	4 Channel Video Transmitter Module
DVM80D-4VR	4 Channel Video Receiver Module
DVM80D-2VAT-BD	2 Channel Video, Stereo Audio Transmitter, Bi-Directional RS-232 Data Module
DVM80D-2VAR-BD	2 Channel Video, Stereo Audio Receiver, Bi-Directional RS-232 Data Module

\* Please consult factory for additional models and specifications



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