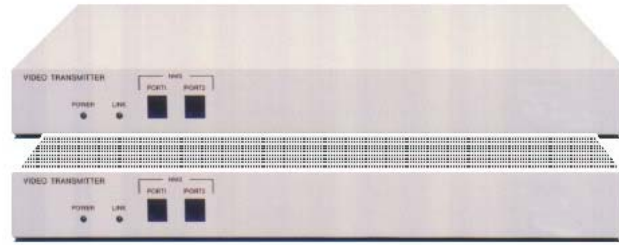


Features

- ◆ Multiplex Video, Audio, and Data
- ◆ Compatible with NTSC, RS-170, PAL, and CCIR Video-Formats
- ◆ Adjustment Free Uncompressed Digital Transmission up to 30 Km
- ◆ 100% Protocol Independent I/O
- ◆ NMS (GUI) Monitor Package
- ◆ TCP/IP and SNMP Software Package Option

Applications

- ◆ Long Distance CCTV
- ◆ Video Conferencing
- ◆ Traffic Surveillance
- ◆ Railway System Surveillance
- ◆ Leased Fiber Network
- ◆ Utility SCADA Network



16 Channel Digital Video with Audio and 16 Bi-directional Data) F.O. Mux Plus+ NMS

Overview

The Multidyne DVM-16D is a Fiber Optic Digital Multiplexer for transmitting 16 channels of video, 16 channels of audio, and/or 16 channels of data over a fiber optic cable. It allows the users the ability to encode these signals, multiplex, and transmit bi-directionally over one singlemode fiber optic cable. This robust transmission platform additionally offers a full (NMS) monitoring capability at each node.

The DVM-16D Series is compatible with NTSC, PAL and CCIR video and standard data interfaces such as RS-232, RS-422, and TTL. The Multidyne 2/4/8/16 channel multiplexers may functionally be cascaded to bring together and deliver, as many as 16 individual 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-16D series use of uncompressed analog to digital modulation techniques provides for adjustment free operation over a wide dynamic range. Digital signaling offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points.

The DVM-16D series may be further maintained with the optional Multidyne Plus+ (NMS) Network Management & (GUI) Interface Software Package. This permits any users the ability of monitoring the entire system for status alarms, such as loss of signal or optical signal, on any one of the system channels.

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

Specifications

System:

Error Rate	1 in 10 ⁹
NMS Display	GUI RS-232 ports
Indicators	PWR, LINK
NMS Connector	RJ12

Optical:

Transmitter	Laser 1300/1550nm
Receiver	PIN
Power Budget	17 dB SM
Connectors	ST, FC, SC

Environment:

Operating	-34°C to 74°C
Storage	-40°C to 95°C
Humidity	95% Non-Condensing

Power:

Transmitter	90-240 VAC / 47-63 Hz
Receiver	90-240 VAC / 47-63 Hz

Physical:

Dimensions Transmitter	2 x (1.75" x 19" x 10")
Receiver	2 x (1.75" x 19" x 10")

Video:

Channel	16
Format	NTSC,RS-170, PAL, CCIR
Signal Level	1 Vp-p
Video Digitization	8 bits, 13 Mega Samples
Bandwidth	6.5 MHz
Differential Gain	<2 %
Differential Phase	<2°
SNR	> 60 dB (weighted)
Connector	BNC

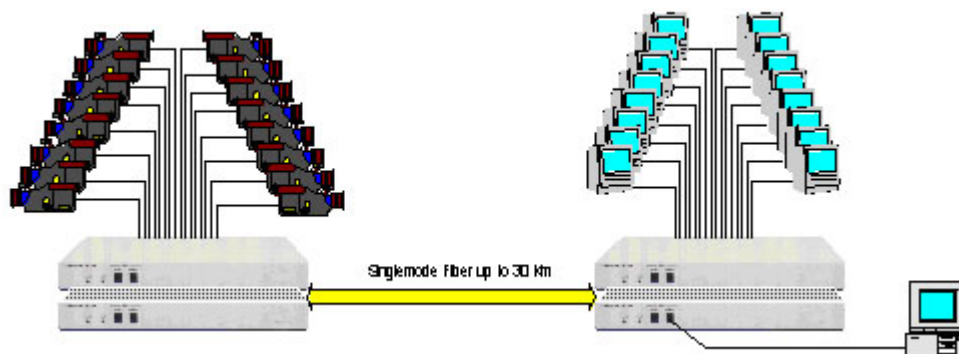
Audio:

Channel	16 Mono
Audio Input	Unbalanced
Impedance	600 Ohms
Freq. Response	10 Hz to 20 KHz
SNR	>70 dB Weight
Connectors	Terminal Blocks

Data:

Channels / Rate	16 at 19.2 Kbps per Channel
Format	RS-232, RS-422, TTL
Connector	DB15

Example Application



Typical DVM-16D Transmitter & Receiver Connection



191 Forest Ave.
 Locust Valley, NY 11560-2132
 Tel: 1-800-488-8378
 Fax: 1-516-671-3362
 www.multidyne.com
 Email: info@multidyne.com

Ordering Information:

Model	Description
DVM-16D-VT-ST-3/5	16 Channel Video Transmitter, 1300/1550nm SM, ST
DVM-16D-VR-ST-3/5	16 Channel Video Receiver, 1300/1550nm, SM, ST

** Please consult factory for additional models and specifications*

In the interest of product improvement Multidyne reserves the right to vary descriptions and specifications without notice. All rights reserved.