MULTIDYNE
Video and Fiber Optic Systems

DVM-2D Series

2 Channel Digital Video with Audio and 2 Bi-directional Data F.O. Mux Plus + NMS

Features

- Multiplex Video, Audio, and Data
- Compatible with NTSC, RS-170 PAL, and CCIR Video-Formats
- Adjustment Free Uncompressed Digital Transmission up to 50 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

Overview

The Multidyne DVM-2D is a fiber optic digital multiplexer designed to transmit 2 channels of video, 2 channels of audio, and/or 2 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-2D Series is compatible with NTSC, PAL and CCIR video and standard data interfaces such as RS-232, RS-422, and TTL. Long transmission distances are easily accommodated, as each node becomes a repeater point for the digital signal, allowing for vast overall transmission considerations.

The DVM-2D series use of uncompressed analog to digital modulation techniques provides 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-2D 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 or Better
NMS Display	GUI RS-232 ports
Indicators	PWR, LINK
NMS Connector	RJ12

Optical:

Transmitter	Laser 1300/1550nm
Receiver	PIN
Power Budget	25 dB SM
Connectors	ST, FC, SC

Environment:

Operating	-34^{0}C to 74^0 C
Storage	-40^{0}C to 95^0 C
Humidity	95% Non-Condensing

Power:

Transmitter	12 VDC @ 1Amp
Receiver	90-240 VAC / 47-63 Hz

Physical:

Dimensions Transmitter	1" x 6" x 4"
Receiver Rack Card	5.25" x 12" x 1.1"

Video:

Channel	2
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	<2^0
SNR	> 60 dB (weighted)
Connector	BNC

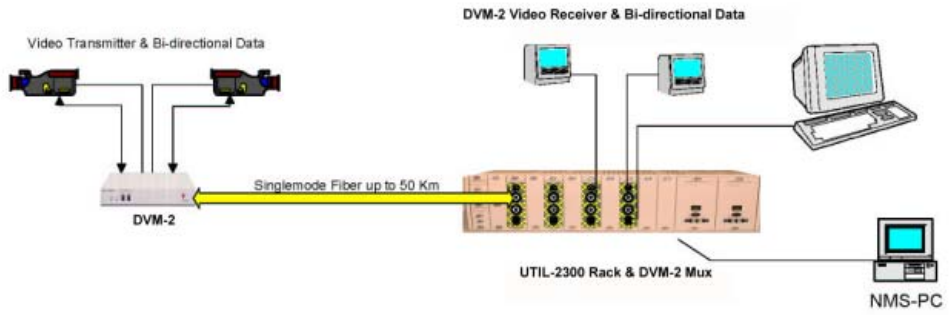
Audio:

Channel	2 Mono
Audio Input	Unbalanced
Impedance	600 Ohms
Freq. Response	10 Hz to 20 Khz
SNR	>70 dB Weight
Connectors	Terminal Blocks

Data:

Channels / Rate	2 at 19.2 Kbps per Channel
Format	RS-232, RS-422, TTL
Connector	DB15

Example Application



Typical DVM-2D Transmitter & Receiver Connection

MULTIDYNE
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Ordering Information:

Model	Description
DVM-2D-VT-B22-ST-3/5-I	2 Channels Video Transmitter, 2 Channels Bi-directional RS-422 1300/1550nm SM,ST
DVM-2D-VR-B22-ST-5/3-I	2 Channels Video Receiver , 2 Channels Bi-directional RS-422 1550/1300nm, SM, ST

Note: This Product is Built to ANEMA TS-2 Testing Standards