

DVM-2D Series

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



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

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 10⁹ 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^oC to 74^o C
 Storage -40^oC to 95^o 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^o
 SNR > 60 dB (weighted)
 Connector BNC

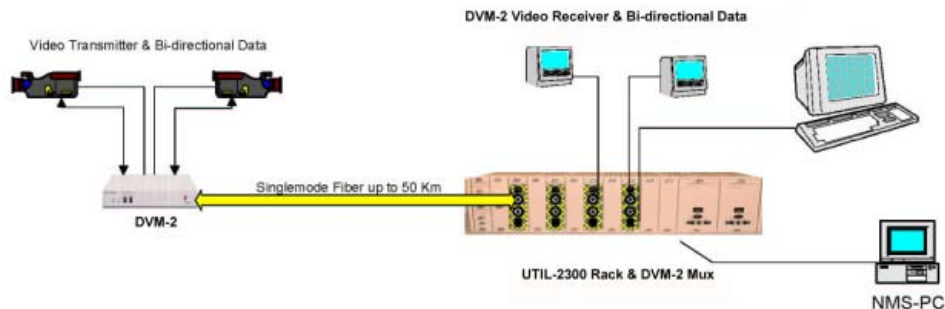
Audio:

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



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-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

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