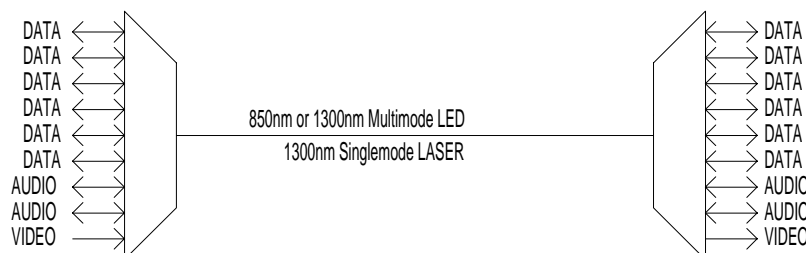


DVM-3000 Series

1 Ch. 12 Bit Video, 2 Bi-dir Audio & 8 Bi-dir Data Fiber Optic Multiplexer for Surveillance and Transportation



- Exceeds **RS-250C Short-haul** and **Broadcast Video** specifications.
- 12 Bit Video** with a **Signal to Noise** ratio greater than **75 dB** and a **Signal to Quantizing Noise** ratio of **74 dB**.
- Video **Bandwidth** of **8 MHz** for support of NTSC, PAL and SECAM (Option for 10 MHz).
- Differential Gain** and **Phase** of **0.2%** and **0.2°**, respectively.
- Video **Gain** and up to **3000 feet cable equalization** or **sharpness control**.
- 24 bit, Bi-directional Audio** flat from **20 to 20K Hz**, **S/N** greater than **90 dB** and **THD** less than **0.05%**.
- Supports up to **8 bi-directional, full duplex, data channels** of **RS-232C**, **RS-422**, **RS-485**, **CMOS** or **TTL** at up to **115.2 Kbps**. The data interface protocol is dipswitch configurable in banks of 4 channels. For example you can have 4 RS232 and 4 RS422 channels or 8 RS232 channels.
- Data Squelching Circuit**. With the loss of link integrity or fiber disconnection, the data I/O's will not stream.
- Video, Audio and Optical front panel status indicators.
- Optical budget** of up to **24 dB**.
- Supports **1 video, 2 duplex audio** and up to **8 bi-directional data channels** over **ONE optical fiber**.
- AC operation for **110/220 VAC** and optionally for **48 VDC**.
- Available in portable, rack-mount and modular configurations with all optical wavelengths.
- Applications include **distance learning**, **Intelligent Transportation Systems** and **surveillance**.
- Temperature range **-40° to +75°C**.



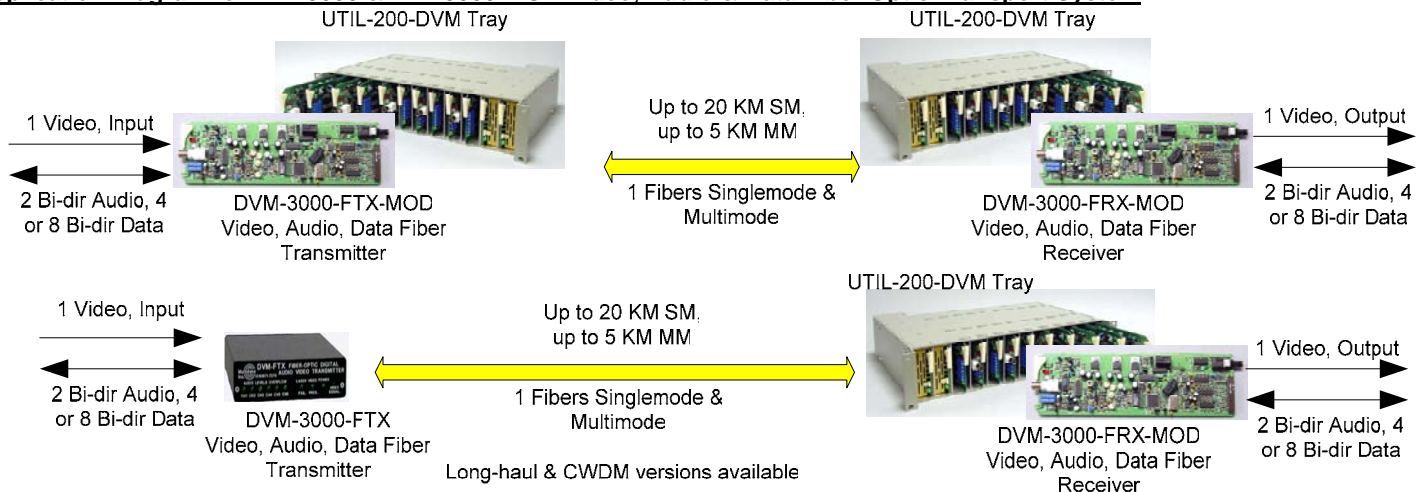
In the USA and Canada call **1-(800)-4TV-TEST**
 191 Forest Avenue, Locust Valley, NY 11560-2132 USA
 1-(800)-488-8378, (516)-671-7278, FAX (516)-671-3362
 E-Mail: sales@multidyne.com
 Web Site: www.multidyne.com

SPECIFICATIONS Exceeds the RS-250C Short-haul and Broadcast specification. Specifications subject to change without notice. Designed and manufactured in the U. S. A.

Video Input	1 Vp-p	Data Channel Protocol (selectable in banks of 4 ch.)	RS-232C, RS-422 or RS-485 Data
Signal to noise	> 75 dB	Data Configuration (RS422 mode supports RS485)	Data Channels 0 & 1=RS422 I/O, 2 & 3=RS232 I/O; No termination.
Differential gain	< +/- 0.2 %		Data Ch 0, 1 & 2=RS422 I/O, 3=RS422 In & RS232 Out; RS422 Termination ON.
Differential phase	< +/- 0.2 °		Data Channels 0 thru 3=RS232 I/O; No termination.
Chrominance to luminance gain	< +/- 0.5 %	Data Rate	DC to 115.2 Kbps
Chrominance to luminance delay	< +/- 5 nsec.	Data and Audio I/O's	44 pins D-Type Connector, Optional screw terminal adapter
Frequency response to 6 MHz	< +/- 0.05 dB	Bit Error Rate	< 1x10 ⁻⁹
3 dB Bandwidth	8 MHz	Power dissipation	< 15 Watts, per unit
Luminance non-linearity	< 0.2 %	AC operation	110 or 220 VAC (optional 48VDC)
Ringing	< +/- 0.5 %	Operating temperature	-40° to +75°C
Tilt	< +/- 0.2 %	Operating Humidity	0-95% non-condensing
Video output & input impedance	75 Ohms	Wavelength	1310/1550nm
Differential video input option	120 Ohms, part # -DIFFIN	Output Power, minimum	0 dBm Singlemode
Cable Equalizer, optional (3000 feet)	>30 dB @ 10 MHz	Receiver Sensitivity	-24 dBm Singlemode
Portable and Wall-mount:	7" L x 5 3/4" W x 1 3/4" H	Optical Loss Budget, minimum	24 dBm Singlemode
Triple Rack-mount Kit for 3 modules (Part number -RMT):	7" L x 19" W x 1 3/4" H		
UTIL-200-DVM 10 Slot Tray	13 3/4" L x 19" W x 3 1/2" H		

ORDERING INFORMATION:

DVM-3000-FTX-38-ST	Fiber Optics, Surveillance & Transportation Video, Voice and Data Multiplexers, Stand-alone, Multimode: (SIN 58-6) Stand-alone, 12 bit Video Fiber Optic Transmitter; exceeds RS-250C Short-haul specs, with up to 8 optional bi-directional Data Channels, Supports RS-232, RS-422 and RS-485 jumper selectable, with 1310nm Multimode Laser 0 dBm and 850nm PIN with FC or ST connector, Sensitivity -24 dBm. Wall-mount 110 or 220VAC power supply included. Specify -ST or -FC for connector type (May require -DVMAUDIO30, -4DATA, -8DATA, -VOICE, -RMT, -BLANK and -WALL)
DVM-3000-FRX-83-ST	Fiber Optics, Surveillance & Transportation Video, Voice and Data Multiplexers, Stand-alone, Multimode: (SIN 58-6) Stand-alone, 12 bit Video, Fiber Optic Receiver; exceeds RS-250C Short-haul specs, with up to 8 optional bi-directional Data Channels, Supports RS-232, RS-422 and RS-485 jumper selectable, 850nm Multimode Laser 0 dBm and 1310nm PIN with FC or ST connectors, Sensitivity -24 dBm. Wall-mount 110 or 220VAC power supply included. Specify -ST or -FC for connector type (May require -DVMAUDIO30, -4DATA, -8DATA, -VOICE, -RMT, -BLANK and -WALL)
DVM-3000-FTX-MOD-38-ST	Fiber Optics, Surveillance & Transportation Video, Voice and Data Multiplexers, Modular, Multimode: (SIN 58-6) Modular, 12 bit Video Fiber Optic Transmitter; exceeds RS-250C Short-haul specs, with up to 8 optional bi-directional Data Channels, Supports RS-232, RS-422 and RS-485 jumper selectable, with 1310nm Multimode Laser 0 dBm and 850nm PIN with FC or ST connector, Sensitivity -24 dBm. For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO30, -4DATA, -8DATA, -VOICE)
DVM-3000-FRX-MOD-83-ST	Fiber Optics, Surveillance & Transportation Video, Voice and Data Multiplexers, Modular, Multimode: (SIN 58-6) Modular, 12 bit Video, Fiber Optic Receiver; exceeds RS-250C Short-haul specs, with up to 8 optional bi-directional Data Channels, Supports RS-232, RS-422 and RS-485 jumper selectable, 850nm Multimode Laser 0 dBm and 1310nm PIN with FC or ST connectors, Sensitivity -24 dBm. For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO30, -4DATA, -8DATA, -VOICE, -RMT, -BLANK and -WALL)
DVM-3000-FTX-35-ST	Fiber Optics, Surveillance & Transportation Video, Voice and Data Multiplexers, Stand-alone, Singlemode: (SIN 58-6) Stand-alone, 12 bit Video Fiber Optic Transmitter; exceeds RS-250C Short-haul specs, with up to 8 optional bi-directional Data Channels, Supports RS-232, RS-422 and RS-485 jumper selectable, with 1310nm Single-mode Laser 0 dBm and 1550nm PIN with FC or ST connector, Sensitivity -24 dBm. Wall-mount 110 or 220VAC power supply included. Specify -ST or -FC for connector type (May require -DVMAUDIO30, -4DATA, -8DATA, -VOICE, -RMT, -BLANK and -WALL)
DVM-3000-FRX-53-ST	Fiber Optics, Surveillance & Transportation Video, Voice and Data Multiplexers, Stand-alone, Singlemode: (SIN 58-6) Stand-alone, 12 bit Video, Fiber Optic Receiver; exceeds RS-250C Short-haul specs, with up to 8 optional bi-directional Data Channels, Supports RS-232, RS-422 and RS-485 jumper selectable, 1550nm Singlemode Laser 0 dBm and 1310nm PIN with FC or ST connectors, Sensitivity -24 dBm. Wall-mount 110 or 220VAC power supply included. Specify -ST or -FC for connector type (May require -DVMAUDIO30, -4DATA, -8DATA, -VOICE, -RMT, -BLANK and -WALL)
DVM-3000-FTX-MOD-35-ST	Fiber Optics, Surveillance & Transportation Video, Voice and Data Multiplexers, Modular, Singlemode: (SIN 58-6) Modular, 12 bit Video Fiber Optic Transmitter; exceeds RS-250C Short-haul specs, with up to 8 optional bi-directional Data Channels, Supports RS-232, RS-422 and RS-485 jumper selectable, with 1310nm Single-mode Laser 0 dBm and 1550nm PIN with FC or ST connector, Sensitivity -24 dBm. For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO30, -4DATA, -8DATA, -VOICE)
DVM-3000-FRX-MOD-53-ST	Fiber Optics, Surveillance & Transportation Video, Voice and Data Multiplexers, Modular, Singlemode: (SIN 58-6) Modular, 12 bit Video, Fiber Optic Receiver; exceeds RS-250C Short-haul specs, with up to 8 optional bi-directional Data Channels, Supports RS-232, RS-422 and RS-485 jumper selectable, 1550nm Singlemode Laser 0 dBm and 1310nm PIN with FC or ST connectors, Sensitivity -24 dBm. For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO30, -4DATA, -8DATA, -VOICE, -RMT, -BLANK and -WALL)
-4DATA	4 bi-directional, Full Duplex, Data Channels, Supports RS-232, RS-422 & RS-485 jumper selectable. (1) each for transmitter & receiver side.
-8DATA	8 bi-directional, Full Duplex, Data Channels, Supports RS-232, RS-422 & RS-485 jumper selectable. (1) each for transmitter & receiver side.
-VOICE	20-20KHz Digital Codec for Bi-directional Stereo Audio Ch., (1) each for transmitter and receiver side
-DIFFIN	120 Ohm Differential Video Input option
-RMT	Triple Rack-mount Kit (1 kit)
-WALL	Wall-mount Kit (1 set)
-BLANK	Blank panel for rack-mounting kit
-DVMBREAK30	Audio and Data screw terminal break-out adapter for DVM3000
UTIL-200-DVM-2RU-AC	Analog, Digital and Fiber, 10 Slot, 2RU, Modular Utility Tray, with one 85-265 VAC Power Supply & Line Cord
PS-200-DVM-AC	Modular 85-265 VAC Power Supply & Line Cord for 200 series trays
UTIL-200-DVM-2RU-48VDC	Analog, Digital and Fiber, 10 Slot, 2 RU, Modular Utility Tray, with one 36-60 VDC Power Supply (Delivery 10 Weeks)
PS-200-DVM-48VDC	Modular 36-60 VDC Power Supply for 200 series trays (Delivery 10 Weeks)

Application Diagram for DVM3000 & DVM3000-MOD Video, Audio & Data Fiber Optic Transport System

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