MultiDyne
Video & Fiber Optic

V
A
D

DVM-1200
1 Ch 9 Bit Video, 2 Ch 24 Bit Audio & 3 Ch Data Fiber Optic Multiplexer
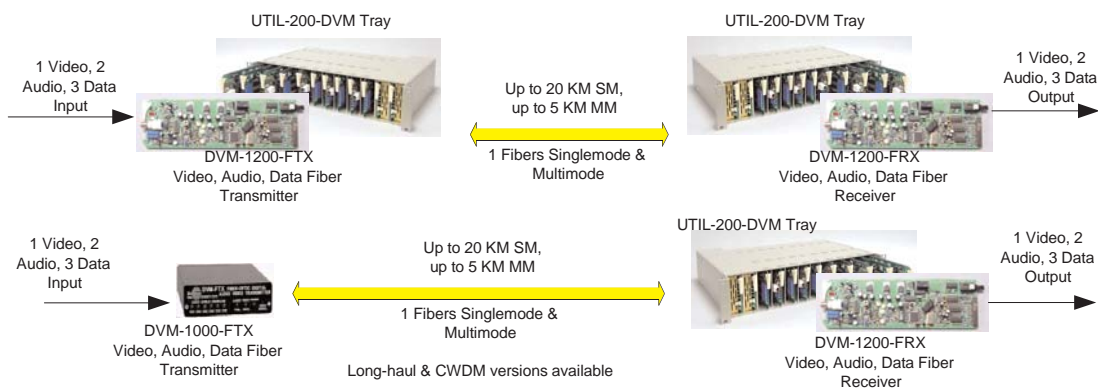
COMPATIBLE WITH: UTIL-200-DVM

MADE IN U. S. A.

SUMMARY

-Supports 1 video, 2 audio and 3 RS-232 simplex data channels

-Video bandwidth 8 MHz with 64dB S/N; audio 20Hz to 20KHz with 90dB S/N.

-Video gain and 1000 ft cable equalization adjustments for input & output.

-Singlemode or multimode configurations.

-9 Bit Video with a Signal to Noise ratio greater than 64 dB and a Signal to Quantizing Noise ratio of 64 dB.

-Differential Gain and Phase of 2% and 1°, respectively.

-Video, Audio and Optical front panel status indicators with dry alarm relay contacts.

-Available in portable, rack-mount and modular configurations with all optical wavelengths, LED Multimode and Laser Single-mode.

-Support analog video, analog audio, serial digital video and digital audio in the same tray.

he DVM-1200 series is designed for applications that demand high quality video (9 bit), audio (24 bit) and data transmission over fiber. Applications include links from studio to transmitter (STL), studio to studio, studio to CATV head-end, common carrier, RBOC Telco circuits, distance learning, Intelligent Transportation Systems & back-haul feeds from special events. This series supports NTSC, PAL, SECAM as well as video with diplexed audio carriers at 4.5MHz, 5.8 MHz and 6.4 MHz (Option for 10 MHz). The design features differential video and audio inputs that greatly reduce hum and noise.

The DVM-1000 is a compact unit designed for stand alone, wall mount or rack-mount applications, while the DVM-1200 modular card plugs into one of our UTIL-200-DVM series card trays for high density rack mounting. The UTIL-200-DVM card tray can also accommodate cards for other formats such as SDI, analog/AES digital audio and reclocking for maximum flexibility. Advanced CWDM technology is available which enables up to 8 units to be put on one strand of fiber.

APPLICATIONS

UTIL-200-DVM Tray   UTIL-200-DVM Tray

1 Video, 2 Audio, 3 Data Input

DVM-1200-FTX
Video, Audio, Data Fiber Transmitter

Up to 20 KM SM, up to 5 KM MM

1 Fibers Singlemode & Multimode

DVM-1200-FRX
Video, Audio, Data Fiber Receiver

1 Video, 2 Audio, 3 Data Output

1 Video, 2 Audio, 3 Data Input

DVM-1000-FTX
Video, Audio, Data Fiber Transmitter

Up to 20 KM SM, up to 5 KM MM

1 Fibers Singlemode & Multimode

Long-haul & CWDM versions available

UTIL-200-DVM Tray

DVM-1200-FRX
Video, Audio, Data Fiber Receiver

1 Video, 2 Audio, 3 Data Output

CONTACT

SPECIFICATIONS

Video Performance:

Signal to noise ....> 64 dB
Differential gain ....< +/- 2 %
Differential phase ....< +/- 1 □
Chrominance to luminance gain ....< +/- 2%
Chrominance to luminance delay ....< +/- 30 nsec.
Frequency response to 6 MHz ....< +/- 1 dB
3 dB Bandwidth......................................8 MHz
Luminance non-linearity ....< 2 %
Ringing ....< +/- 2 %
Tilt...< +/- 0.5 %
Video output & input impedance ....75 Ohms
Delay, throughput.....................................1.24 micro sec.
Data channels...3 RS-232C @ 9600 Baud

Audio Performance:

Signal to noise.. > 90 dB
Frequency response to **20 Hz to 20 KHz**................. < +/- 0.1 dB
Distortion... < 0.05 %
Audio output level, adjustable.................................... Unity, +/- 6 dBm
Maximum input & output level, 600 Ohm.................. +18 dBm
Audio output impedance, balanced .... 50 Ohms
Audio input impedance, balanced (selectable) .... 600 Ohms or High
Power dissipation .... < 15 Watts, per unit
AC operation .... 110 or 220VAC (opt
Operating temperature .... 0 to +50 □C
Storage temperature................................. -40 to +95 □C
Portable and Wall-mount:....................................... 7" L x 5 ¾" W x 1 ¾"
Triple Rack-mount Kit for 3 modules:………………7" L x 19" W x 1 ¾" H
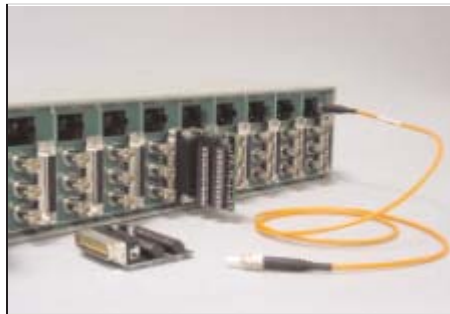
ORDERING INFORMATION

	Fiber Optics, Professional Multiplexers, 9 Bit Video, 24 Bit Audio and Data, Modular, Multimode: (SIN 58-6)
DVM-1200-FTX-2	Modular, 9 bit Video, 2 Channels of 24 bit Audio and 3 Channels of RS232 Data, Fiber Optic Transmitter with 1310nm Multimode LED -14 dBm with ST connector for the UTIL-200-DVM Tray. (Optional -DVMAUDIO22, -DVMXLR22,)
DVM-1200-FRX-2	Modular, 9 bit Video, 2 Channels of 24 bit Audio and 3 Channels of RS232 Data, Fiber Optic Receiver; exceeds RS-250C Short-haul specs, Multimode PIN with ST connectors, Sensitivity -24 dBm for the UTIL-200-DVM Tray. (Optional -DVMAUDIO22, -DVMXLR22)
	Fiber Optics, Professional Multiplexers, 9 Bit Video, 24 Bit Audio and Data, Modular, Singlemode:
DVM-1200-FTX-50	Modular, 9 bit Video, 2 Channels of 24 bit Audio and 3 Channels of RS232 Data, Fiber Optic Transmitter with 1310nm Single-mode Laser -8 dBm with FC connector for the UTIL-200-DVM Tray. (Optional -DVMAUDIO22, -DVMXLR22,)
DVM-1200-FTX-52	Modular, 9 bit Video, 2 Channels of 24 bit Audio and 3 Channels of RS232 Data, Fiber Optic Transmitter with 1310nm Single-mode Laser -3 dBm with FC connector (Optional -DVMAUDIO22, -DVMXLR22,)
DVM-1200-FTX-53	Modular, 9 bit Video, 2 Channels of 24 bit Audio and 3 Channels of RS232 Data, Fiber Optic Transmitter with 1310nm Single-mode Laser +0 dBm with FC connector (Optional -DVMAUDIO22, -DVMXLR22,)
DVM-1200-FTX-6	Modular, 9 bit Video, 2 Channels of 24 bit Audio and 3 Channels of RS232 Data, Fiber Optic Transmitter with 1550nm Single-mode Laser +0 dBm with FC connector (Optional -DVMAUDIO22, -DVMXLR22, WDM-95,)
DVM-1200-FTX-7-xxxx	Modular, 9 bit Video, 2 Channels of 24 bit Audio and 3 Channels of RS232 Data, Fiber Optic Transmitter with CWDM 1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 or 1610nm Single-mode Laser 0 dBm with SC connector. Supports up to 8 wavelength or channels per fiber optic cable. (Enter wavelength for xxxx) (Optional -DVMAUDIO22, -DVMXLR22,) (May requires CWDM Mux & Demux Accessories)
DVM-1200-FRX-50	Modular, 9 bit Video, 2 Channels of 24 bit Audio and 3 Channels of RS232 Data, Fiber Optic Receiver Singlemode PIN with FC connectors, Sensitivity -25 dBm for the UTIL-200-DVM Tray. (Optional -DVMAUDIO22, -DVMXLR22,)
	Modular Utility Trays and Power Supplies & Accessories (SIN 58-6)
UTIL-200-DVM-2RU-AC	Analog, Digital and Fiber, up to 10 Slots, 2RU, Modular Utility Tray, with one 85-265 VAC Power Supply & Line Cord. **Supports the DVM-1200 & DTV-220/230 SDI cards.**
PS-200-DVM-AC	Modular 85-265 VAC Power Supply & Line Cord for 200 series trays
-DVMAUDIO22	Audio screw terminal break-out adapter for DVM1200
-DVMXLR22	XLR Audio Adapter Cable for DVM1200

MADE IN U.S.A.

CONTACT