Specifications

Video Performance*

Video Output Impedance	75 ohm (unbalanced)
Video Output Voltage	1Vp NTSC, 1.3Vp PAL
Video Connector	BNC
Frequency Response	10 Hz to 7 MHz (3 dB)
Signal to Noise Ratio Differential Gain (-20°C to +70°C) Differential Gain (-30°C to +85°C) Differential Phase (-20°C to +70°C) Differential Phase (-30°C to +85°C) Field Tilt Luminance	62 dB as per RS250C <4% <7% <4° <7° <2%
Non-Linearity (-20°C to +70°C)	<4%
Luminance	<7%
Non-Linearity (-30°C to +85°C)	<1/0

Optical Performance

Single mode - Core Diameter Optical Connector Receiving Wavelength Receiver Sensitivity* Transmitting Light Source Optical Power Output Data Interface 8 - 10u ST, FC or SC 1310 nm -34 dBm Laser 1550 nm -8 dBm (+/- 2 dBm @ -30 °C to +85 °C)

Data Interface Data Rate*

RS-232 Bi-directional – 4 wire Up to 200Kb/s

* measured with 133S-VT/DX-M1ST unit as per RS-250C @ 1km for single mode optical cable.

Operating Temperature Dimensions Power Requirements -30 °C to +85 °C 170mm(L) x 126mm(W) x 34mm(D) 12V AC or DC @ 300mA; 24VAC @ 200mA

133S-VR/DX-M1

Fiber Optic Video Receiver & 2Ch. RS-232 Data Transceiver

Singlemode

Single Fiber Operation

Elcommtech Corp. 2620 Ocean Parkway, Suite 4H Brooklyn NY 11235 (718)743-2869 Fax: (718)648-3642 E-Mail: <u>sales@elcommtech.com</u> Internet: http://www.elcommtech.com

Introduction :

The Elcommtech 133S-VR/DX-M1 forms part of a singlemode, single fiber video and data fiber optic transmission system. Using frequency modulation and operating as a dual window 1310/1550nm single fiber unit, the 133S-VR/DX-M1 provides the following facilities in a 170mm x 126mm x 34mm free standing module.

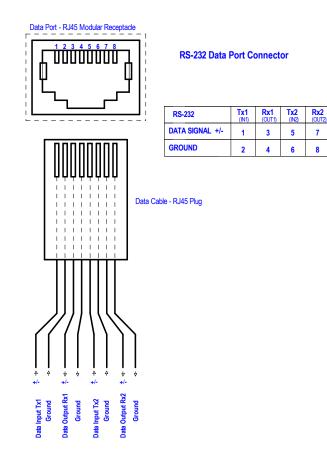
Optical Receiver for :- Composite Video signal & 2x RS-232 Data Channels

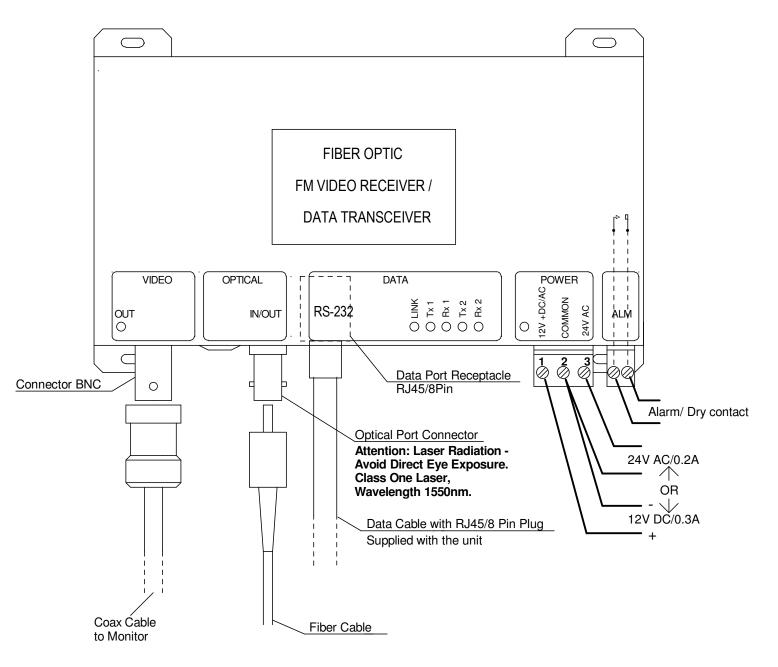
Optical Transmitter for :- 2x RS-232 Data Channels

Indicators :- All indicators are located on the top of the module.

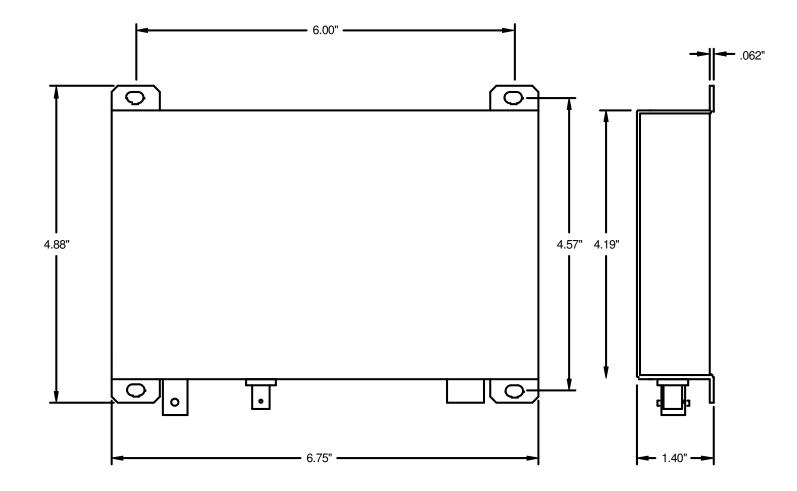
Indicator		
Power	off	The unit is not powered
	green	Power connected
Video Output	off	No link - no carrier signal present
	red	Link on - carrier signal present, but no video signal present
	green	Composite video signal present
Data Link	off	No received optical signal present
	green	Optical signal received
Data Tx1	off	No data signal present at the optical transmitter Ch.1 input
	red	Data signal is present at the optical transmitter Ch.1 input
Data Rx1	off	No data signal present at the optical receiver Ch.1output
	green	Data signal is present at the optical receiver Ch.1 output
Data Tx2	off	No data signal present at the optical transmitter Ch.2 input
	red	Data signal is present to the optical transmitter Ch.2 input
Data Rx2	off	No data signal present at the optical receiver Ch.2 output
	green	Data signal is available at the optical receiver Ch.2 output

Data Connector Pinouts





133S-VR/DX-M1 Video Receiver / Data Transceiver Connections



Installation Drawing