



...communicating at the speed of light

# FT-FOTR-1VD-ST-S-M Baseband Video Transmitter And Receiver With Reverse Data Transmission For PTZ Cameras

### Features:

- 8 Bit digital video transmission
- High speed synchronization with digital transmission technology
- Wide optic dynamic range, no adjustments required
- LCD Indicators for power, optic, video & data
- Immunity to electrical interference, ground loops & radio frequency interference
- Safe, clear transmission in bad electromagnetic environments
- Surface mount technology design
- Video DC restoration
- Supports RS485, RS422 or RS232



### Description:

The FT-FOTR-1VD-ST-S-M Miniature fiber optic transmitter/receiver supports the transmission of a single baseband video channel and a reverse data signal over one strand of single-mode fiber optic cable. This product is compatible with all NTSC and PAL video signals. Power, optical signal, video signal and data signal are easily inspected through LED indicators directly on the units. The transmitter and receiver combination supports transmission distances for optical loss budgets of less than 18 dB.

### Specifications:

#### Optical

Optical Wavelength:	1310nm / 1550nm
Fiber Type:	Single-mode 9/125 µm
Max. Link Distance:	12.5 miles
Connector:	Simplex ST
Acceptable loss budget:	18 dB

#### Video

Number of Inputs:	1
Video Connector:	BNC Female
Input Impedance, Transmitter:	75Ω (Unbalanced)
Output Impedance, Receiver:	75Ω (Unbalanced)
Video Bandwidth per Channel:	0 - 6.5MHz
Video SNR:	>60 dB
Differential Gain:	<1%
Differential Phase:	<1°
Tilt:	<1%

#### Data

Data Rate:	0 - 300Kbps
Data Interface:	RS485, RS422 or RS232
Baud Rate Per Channel:	0 - 100Kbps
Bit Error Rate:	<10 <sup>-9</sup>
Connector:	Terminal Block

#### General

Power Supply:	5VDC
Power Consumption:	<10W
Operating Temperature:	14°F - 122°F
Storage Temperature:	-22°F - 158°F
Operating Humidity:	0-95% (Non-condensing)

### Contents Include:

- 1 Transmitter
- 1 Receiver
- 2 Power supplies
- 1 Instruction manual

### Ordering Information:

FT-FOTR-1VD-ST-S-M

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