FTV10 Transmitter

SINGLE-CHANNEL DIGITALLY ENCODED VIDEO

Product Features

- 10-Bit Digitally Encoded Video for High-Quality Video Transmission over a Single Fiber
- Multimode Fiber Support for Distances up to 4 km (2.5 mi)
- Single-Mode Fiber Support for Distances up to 54 km (33.6 mi)
- Exceeds All Requirements for EIA RS-250C Short-Haul Transmission Specifications
- Laser Diode for Transmission of Optical Signals
- Compatible with NTSC, PAL, or SECAM Video Standards
- Designed to meet NEMA TS 1/TS 2 and Caltrans Traffic Signal Control Equipment Environmental Standards
- Voltage Transient Protection on All Power and Signal Input/Output Lines
- LED Status Indicators for Monitoring All Critical Operating Parameters
- Stand-Alone or Rack-Mountable Modular Design

FTV10S1ST

The **FTV10** fiber transmitter transmits one channel of video over one optical fiber. The **FTV10** transmitter is compatible with the FRV20 receiver and is available in both multimode and single-mode versions.

The **FTV10** plug-and-play design ensures ease of installation by requiring no electrical or optical adjustments. Modular in design, **FTV10** units can be rack-mounted using the EURACK/USRACK chassis, or stand-alone modules can be placed on a desktop or mounted to a wall (wall mount kit not required).

For stand-alone and wall mount installations, external power is required for the **FTV10** units. The units can be powered with the recommended FEXTPS fiber external power supply.

TECHNICAL SPECIFICATIONS

MODELS

Transmitter	Compatible Receiver	Fiber Optical Connector Type	Number of Fibers	Wavelength	Optical Power Budget	Maximum Transmission Distance*
Multimode (62.5/125 µm)						
FTV10M1ST	FRV20M2ST	ST	1	1310 nm	12 dB	4 km (2.5 mi)
Single Mode (9/125 µm)						
FTV10S1ST	FRV20S2ST	ST	1	1310 nm	16 dB	54 km (33.6 mi)
FTV10S1FC	FRV20S2FC	FC	1	1310 nm	16 dB	54 km (33.6 mi)

Note: This product requires a fiber installation with a minimum 30 dB connector return loss.

*Transmission distance will be diminished if additional losses are introduced by the optical connectors, splices, and other factors regarding the quality of the fiber. The operating distance of multimode is limited by the characteristics of the fiber bandwidth.

VIDEO

Number of Channels	1
Video Input	1.0 Vp-p, 75 ohms; NTSC, PAL, SECAM
Overload	>1.5 Vp-p
Bandwidth (minimum	5 to 10 MHz
Differential Gain	<2%
Differential Phase	<0.7°
Tilt	<1%
Signal-to-Noise Ratio	>67 dB typical at maximum optical loss
Max. Coaxial Cable (RG59)	100 m (300 ft) camera to fiber optic module to maintain 6 Mhz bandwidth

ELECTRICAL

Power	
Surface Mount	8 to 15 VDC at 2 W
Rack Mount	Provided by rack
MTBF	>100,000 hours
Current Protection	Automatic resettable solid-state current limiters
Circuit Board	Meets IPC standards
LED Indicators	Video, Link, Power

MECHANICAL

Connectors	
Power	Terminal block
Optical	ST or FC
Video	BNC (gold-plated center pin)
Number of Rack Slots	1

GENERAL

Dimensions	15.5 × 13.5 × 2.8 cm (6.1" D × 5.3" W × 1.1" H)
Operating Temperature	–40° to 75°C (–40° to 167°F)
Storage Temperature	–40° to 85°C (–40° to 185°F)
Relative Humidity	0 to 95%, noncondensing
Unit Weight	0.34 kg (0.75 lb)
Shipping Weight	0.90 kg (2.00 lb)

CERTIFICATIONS/RATINGS†

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick
- Designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards

†At the time of this printing, all certifications are pending. Please consult the factory, our Web site (*www.pelco.com*), or the most recent B.O.S.S.® update for the current status of certifications.

RECOMMENDED ACCESSORIES

EURACK	4 RU rack accessory with European power supply
USRACK	4 RU rack accessory with North American power supply
FEXTPS	Fiber External Power Supply with multiple plug adaptors (North American, Australian, United Kingdom, and European); 100 to 240 VAC, 50 to 60 Hz input, 9 VDC output

Pelco, Inc.
625 W. Alluvial Ave., Fresno, CA 93711 United States
USA & Canada Tel (800) 289-9100 Fax (800) 289-9150
International Tel +1 (559) 292-1981 Fax +1 (559) 348-1120
www.pelco.com

⚠**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
⚠**ADVERTENCIA:** Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov.
⚠**AVERTISSEMENT:** Cancer et Troubles de l'appareil reproducteur - www.P65Warnings.ca.gov.

Pelco, the Pelco logo, and other trademarks associated with Pelco products referred to in this publication are trademarks of Pelco, Inc. or its affiliates. All other product names and services are the property of their respective companies. Product specifications and availability are subject to change without notice.
©Copyright 2012, Pelco, Inc. All rights reserved.