PFO-100T/R
Professional Fiber Optics

Features:
- Supports Embedded Audio
- Portable, lightweight units
- SDI Pathological Compliance
- Sports Tele-Prod, Golf, Skiing
- Cross-Town Fiber Links
- Cross-Campus Production
- Remote Camera Links
- Pre-installed Fiber Venues

SDI Pathological Compliant
The PFO-100T&R is a miniature high quality fiber optical transmission system. The module is SDI pathological test compliant with built in EQ, cable driver and re-clocker. This unit operates with single mode fiber optic cable, or multi-mode fiber cable can be requested for shorter transmission distances. The PFO-100T&R supports SMPTE ST 259 (SD-SDI 143/270/360 Mb/s), SMPTE ST 292-1 (HD-SDI 1.5Gb/s), SMPTE ST 424 (3G-SDI 3Gb/s).

Portable Lightweight Units
The combined PFO-100T, transmitter, and PFO-100R, receiver, are a matched pair for specific wavelengths, either the standard 1310 nm or any requested wavelength between 1270-1610 nm. At only 4 o.z., and capable of transmitting up to 24 miles (40 km), the portable and powerful system is ideal in a wide variety of applications, including cross-town fiber links, cross-campus production, remote camera links and previously installed fiber venues.

Easy Set Up Operations
The PFO-100T&R modules include LED indicators to display Power ON and SDI signal presence from BNC (transmitter) or from fiber optic (receiver), providing critical system diagnostic information at a glance without the need for additional test equipment. The 3G/HD/SD-SDI or ASI fiber optical transmission system uses its own power supply or any 5 volt DC supply, with a standard latching power jack DC input. Due to the advanced digital fiber optic transmission technology, there is no need to make any adjustments with a simple set up and ease of operation.

Exceptional Technical Support
The PFO-100 Transmitter and Receiver is backed by the Link Electronics standard 10-year warranty and 24/7 free customer support. It meets the innovative, high performance, flexibility, and reliability requirements of all Link Electronics products.
PFO-100T/R
Professional Fiber Optics

Video
Transmission Method: Digital
Input Level: 800 mV (peak to peak)
Input Impedance: 75 ohms
Equalization: 350m@270 Mbps, 140m@1.485 Gbps, 50m@ 2.97 Gbps
Output Impedance: 75 ohms
Bit-Error Rate: @ -20 dBm) 10^{-11}
Jitter (pathological data pattern): < 120 ps
Rise/Fall Times: < 120 ps

* Equalization of Belden 1694A cable: 120m@2.97Gb/s, 200m@1.485Gb/s, and 350m@270Mb/s.

Transmission
Operating Wavelength: 1310nm normal, (Optional 18 Ch. 1270~1610nm CWDM)
Video Connector In/Out: BNC
Optical Connector: LC (Standard)
Transmitter Output: -6~0 dBm (0~+3 dB m Optional)
Receiver Sensitivity: -20 dBm
Link Margin/Distance: 13 dB/5km@3G for Single Mode
Fiber Type: Single mode
Transmission Distance: 40 kilometers

Electrical
Input Voltage: 5 VDC
Power Connector: DC Latching Jack
Power Consumption, Each End: 600 mW

Environmental
Operating Temperature: 25° C to +55°C
Relative Humidity: 0 to 95%, non-condensing

Mechanical
Length: 3.2 inches
Width: 0.65 inches
Height: 2.0 inches
Weight: 4 oz. (150 g)
Indicators: Power, signal, link, optical power

The manufacture reserves the right to change specifications without notice