

Key Features & Benefits

- Connects Directly to a Windows based PC
- Real-Time, Averaging, and Auto-Test Modes
- Simple Report Generation
- Small, Lightweight Package
- Low Cost OTDR Solution
- Industry Standard File Format

Markets & Applications

- Lab Testing
- Education

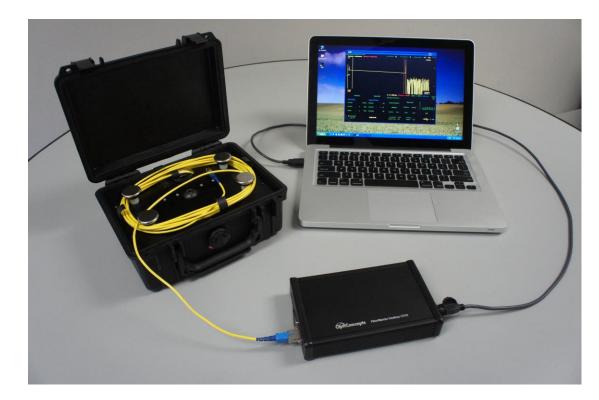
- Data Center Testing
- Manufacturing

Overview

OptiConcepts FiberWarrior Pro[™] Desktop OTDR offers a state-of-the-art system for testing, troubleshooting, and documenting optical fiber networks. Combining a high performance processor, sophisticated signal processing, and an advanced software design, the Desktop OTDR provides users with a high quality solution for analyzing optical fiber in the classroom, lab, and manufacturing environment. The small, lightweight design allows for easy portability, storage, and reduced bench-top space. Simply connect the Desktop OTDR to an existing computer with the USB cord, download the FiberWarrior Pro software, and it is ready to use. No additional power cord or tool is required.

The FiberWarrior Pro Desktop OTDR is an all-purpose, cost effective training tool when used in combination with other OptiConcepts products such as Portable Simulation Test Boxes, Launch Cords, and the FiberWarrior handheld Visual Fault Locator.

Specifications	
Physical	
Weight	<1 lb. (.45kg)
Dimensions (standard unit)	6.3*x4.1x1.2 Inches
Dimensions (quad unit)	6.3*x4.1x2.1 Inches
Exterior Construction	Anodized Aluminum with Shock Resistant Bumpers
	*6.3 inch dimension will increase based on connector type
Environmental	
Operational Temperature	0º to 50ºC
Storage Temperature	-20º to 60ºC
Humidity	≤95% RH, Non Condensing
Electrical	
Power Requirements	DC, 5V USB Supply (Powered)
User Input Device	Mini USB
OTDR	
Wavelengths Available (±20nm)	MM: 850/1300nm; SM: 1310/1490/1550/1625nm
Dynamic Range	MM: 25/25dB; SM: 30-44dB, typical, SNR=1
Pulsewidth Range	MM: 10ns to 1µs; SM: 10ns to 20µs
Loss Resolution	0.001dB
Linearity	±0.05dB/dB
Distance Range	
Single-mode 40dB+ (km)	5, 10, 20, 40, 80, 160, 240, 320, 520
Single-mode 30-38dB (km)	5, 10, 20, 40, 80, 160, 240, 320
Multimode (km)	5, 10, 20, 40, 80
Event Deadzone	<3m
Attenuation Deadzone	<12m
Sample Points	16,000 to 64,000, depending on configuration
Min. Trace Storage Capacity	>300,000
Index of Refraction Range	1.4000 - 1.7000
Distance Measurement	Dual Cursor
Distance Accuracy	±1m, ±sampling resolution (excl. IoR uncertainties)
Loss Measurement	PWRScan [™] , 2 – PT, LSA
Display Range	36 to 50dB (depending on model)
Reflectance Accuracy	±2dB
Display Resolution	0.01dB
Minimum PC Requirements	Windows XP, Vista, or Windows 7 with 1GHz Processor plus
	1GB RAM; Available USB Port



Detailed Information

The performance of the FiberWarrior Pro Desktop OTDR will leave you amazed at the speed and accuracy in which optical fibers are fully analyzed and stored. By using high performance components, the FiberWarrior Pro Desktop OTDR significantly reduces test times as compared to other OTDRs. Additionally, the proprietary PWRScan™ system accurately automates the process of trace interpretation to greatly assist the process of understanding the condition of the fiber network under test.

Through a simple graphical user interface, the Desktop OTDR becomes a window to viewing the health of your optical system by utilizing three modes of operation: Average Mode, Real-Time Mode, and Auto-Test Mode. Average Mode works by quickly and effectively increasing the signal to noise ratio so that anomalies and events within the system are accurately identified and measured. Using Average Mode, the OTDR confirms whether the physical fiber network is within the proper operational parameters or not by providing the user with a clean scan of the optical waveguide. Next, Real-Time Mode offers a unique way of assisting the user during the installation of optical components and troubleshooting by showing the immediate state of the fiber. In this mode, users can more readily identify faults that are intermittent and hard to find. Additionally, components, such as fusion splices and connectors can be optimized for lowest loss and minimal reflection by using the OTDR in Real-Time Mode. Lastly, Auto-Test Mode is a great tool for commissioning and documenting newly deployed fiber systems by automating repetitive steps such as searching for system events and naming files in a logical manner, then provides an ultra easy system of documenting your fiber network.

Ordering Information

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Use the table below to order the FiberWarrior Pro Desktop OTDR.

Part Number	Descriptions
FWU-SM01-XX	FiberWarrior USB OTDR Single-mode 1310/1550nm 32/30dB with USB Cord
FWU-MM01-XX	FiberWarrior USB OTDR Multimode 850/1300nm 25/25dB with USB Cord
FWU-QD01-XX	FiberWarrior USB OTDR Quad SM 1310/1550nm 32/30dB MM 850/1300nm 25dB with USB Cord
XX - Connector optic	ons are - FC, LC, SC, ST, FA (for FCAPC), SA (for SCAPC)

Desktop OTDR Part Number Examples

FWU-SM01-FC - Single-mode Desktop OTDR with FC Connector **FWU-QD01-SA** - Quad SM/MM Desktop OTDR with SCAPC Connector

Quality Statement

OptiConcepts is committed to providing high quality, easy to use test equipment by integrating customer needs into world-class engineered products and systems.



CE

designed and built in the USA

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