

## OptiConcepts FiberWarrior Pro™ II OTDR

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### Key Features & Benefits

- Combines Field Ruggedness with Lab Grade Precision
- Integrated Design Supports Multiple Test Systems
- High-Quality, Sunlight Readable 8.4" Active TFT Color Touch Screen
- High-Quality Housing with Integrated Side Grip
- Fast Intel Processor with Windows or Linux OS
- Intuitive Control Functions via the Touch Screen for Ease of Use
- Advanced PWRScan™ Event Detection Algorithms for Accurate Reporting

### Markets & Applications

- Telecommunications
- LAN/WAN
- CATV
- Military & Government
- FTTx/PON Testing Compliance
- Wireless
- OEM/Lab/Manufacturing Environments
- Education
- Server Monitoring Systems
- Medical
- Metro Networks
- Enterprise Networks

### Overview

OptiConcepts FiberWarrior Pro™ II OTDR is the newest generation OTDR in OptiConcepts line of test equipment. The Fiber Warrior Pro™ II OTDR is a slim and powerful system for testing, troubleshooting, and documenting optical fiber networks. Combining a high performance processor, sophisticated signal processing, and an advanced software design, the FiberWarrior provides users with a high quality solution for analyzing optical fiber in both the field and lab. The modern design allows for easy portability, storage, and reduced bench-top space.

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**FiberWarrior Pro™ II OTDR**



**Specifications**

**Physical**

Weight	4.44 lbs (2.01 kg)
Dimensions	12.0 x 7.5 x 1.4375 in (30.48 x 19.05 x 3.65 cm)
Exterior Construction	Ruggedized Acetal Shell

**Environmental**

Operational Temperature	0° to 50°C
Storage Temperature	-20° to 60°C
Humidity	≤95% RH, Non Condensing

**Electrical**

Power Requirements	AC, 100-250VAC, 50-60Hz
Battery	14.4V 5.6WH Li-Ion, Rechargeable
Battery Life	Up to 8 hrs, depending on usage
Display	8.4" Color TFT LCD
User Input Device	Resistive Touch Screen

**Computing**

Processor	Intel Multicore Processor
Operating System	Linux or Windows
Storage	64Gb
RAM	2Gb
Ports and Outputs	(2) USB, Audio Speaker
Stylus	Custom Stylus with integrated holder
Wireless	Optional

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**Specifications**

**OTDR**

Wavelengths Available ( $\pm 20\text{nm}$ )	MM: 850/1300nm; SM: 1310/1490/1550/1625nm
Dynamic Range	MM: 25/25dB; SM: 30-44dB, typical, SNR=1
Pulsewidth Range	MM: 10ns to 1 $\mu$ s; SM: 10ns to 20 $\mu$ s
Loss Resolution	0.001dB
Linearity	$\pm 0.05\text{dB/dB}$
Selectable Distance Range:	
Single-mode (km)	0.5, 1, 2, 5, 10, 20, 40, 80, 160, 240, 320
Multimode (km)	5, 10, 20, 40, 80
Event Deadzone	<3m
Attenuation Deadzone	<10m
Sample Points	400 to 40,000 (or greater depending on configuration)
Min. Trace Storage Capacity	>1 million
Index of Refraction Range	1.4000 to 1.7000
Distance Measurement	Dual Cursor
Distance Accuracy	$\pm 1\text{m}$ , $\pm$ sampling resolution (excl. IoR uncertainties)
Loss Measurement	PWRScan, 2-PT, LSA
Vertical Display Range	36 to 50dB (depending on model)
Reflection Accuracy	$\pm 2\text{dB}$
Display Resolution	0.01dB

**Power Meter and Light Source**

Wavelength Range	800-1700nm
Calibrated Wavelengths	850,1300,1310,1550,1625nm
Detector Type	InGaAs
Resolution	0.01dB
Accuracy	$\pm 0.20\text{dB}$
Stability	$\pm 0.05\text{dB}$
Linearity	$\pm 0.05\text{dB}$

**Source**

Wavelengths	850/1300nm (MM), 1310/1450/1550/1625nm (SM)
Output Power	-10dBm (SM)
Stability	$\pm 0.05\text{dB}$

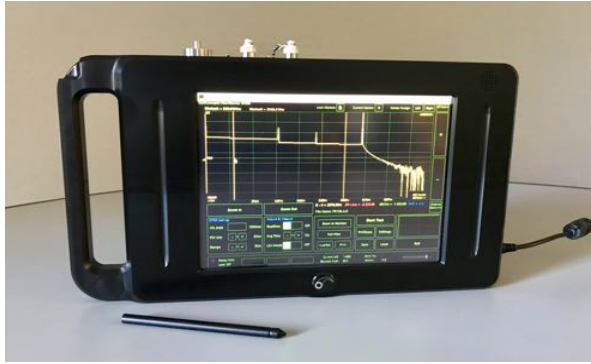
**Visual Fault Locator (Class 2 Laser)**

Wavelength	650nm $\pm 25\text{nm}$
Output Power Level	<1mW

All specifications are typical and subject to change without prior notification.

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### Detailed Information

The slim design of the FiberWarrior OTDR features a high-quality 8.4" TFT LCD touch screen that allows the best possible user experience by providing an interface that is easy to view in both dark and bright environments (including sunlight) and vivid, high-contrast color to easily identify specific network elements and user controls. The centrally positioned screen fills the front of the unit while visually optimizing graphs, tables, and other technical information through the carefully designed interface. An integrated grip handle on the side of the display allow the user to easily handle the unit. For bench top or lab use, the units come with a kickstand which can be removed providing access to mounting holes allowing use of standard LCD mounts. The customizable touch screen further enhances and simplifies usability by eliminating cumbersome buttons and controls.

Last, but certainly not least, is the expandability of the FiberWarrior OTDR platform to include many other testing options, including power meters and optical sources. The scalable design will significantly reduce the cost of future testing requirements as well as simplify and reduce additional training necessary with other stand-alone optical test solutions. What's more, the USB ports and optional Wi-Fi capability instantly allow a virtually unlimited number of devices and connectivity methods to save traces, analyze, and print to assist and enhance the optical testing experience.



## OptiConcepts FiberWarrior Pro™ II OTDR

### Ordering Information

OptiConcepts OTDRs may be ordered in one of two ways, in a kit or a customized test set with components designed for specific applications.

**Option 1** - Ordering a Kit (OptiConcepts OTDR Kits come with everything needed to start testing right out of the box.)

**Standard Kits** - OTDR with FC Connector Interface, Soft Case Launch Cord, Integrated Rechargeable Battery, and Hard Transit Case. This kit is ideal for bench top use in the lab or troubleshooting in the field.

Kit Part Number	Description
<b>FWK2-SMM1</b>	OTDR Multimode 850/1300nm 25dB Dynamic Range, Soft Case Launch Cord, Integrated Rechargeable Battery, Hard Transit Case
<b>FWK2-SSM1</b>	OTDR Single-mode 1310/1550nm 32dB Dynamic Range, Soft Case Launch Cord, Integrated Rechargeable Battery, Hard Transit Case
<b>FWK2-SSM2</b>	OTDR Single-mode 1310/1550nm 40dB Dynamic Range, Soft Case Launch Cord, Integrated Rechargeable Battery, Hard Transit Case
<b>FWK2-SQD1</b>	OTDR Quad 850/1300nm MM 25dB Dynamic Range & 1310/1550nm SM 32dB Dynamic Range (2) Soft Case Launch Cords, Integrated Rechargeable Battery, Hard Transit Case

**Premium Kits** - OTDR with FC Connector Interface, Soft Case Launch Cord, Battery, Handheld VFL, Light Source & Power Meter, and Hard Shell Transit Case. This kit is ideal for complete lab and field testing needs.

Kit Part Number	Description
<b>FWK2-PMM1</b>	OTDR Multimode 850/1300nm 25dB Dynamic Range, Soft Case Launch Cord, Integrated Rechargeable Battery, Handheld VFL, Light Source & Power Meter, and Hard Shell Transit Case
<b>FWK2-PSM1</b>	OTDR Single-mode 1310/1550nm 32dB Dynamic Range, Soft Case Launch Cord, Integrated Rechargeable Battery, Handheld VFL, Light Source & Power Meter, and Hard Shell Transit Case
<b>FWK2-PSM2</b>	OTDR Single-mode 1310/1550nm 40dB Dynamic Range, Soft Case Launch Cord, Integrated Rechargeable Battery, Handheld VFL, Light Source & Power Meter, and Hard Shell Transit Case
<b>FWK2-PQD1</b>	OTDR Quad 850/1300nm MM 25dB Dynamic Range & 1310/1550nm SM 32dB Dynamic Range (2) Soft Case Launch Cords, Integrated Rechargeable Battery, Handheld VFL, Light Source & Power Meter, and Hard Shell Transit Case

(Ordering continued on next page)

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Option 2 - Main Frame Unit Only

Select One Mainframe Part Number

Part Number	Description
FWP2-MFRN	OTDR Main Frame Industrial Unit
FWP2-MFRB	OTDR Main Frame with Integrated Rechargeable Li-Ion Battery

**Accessories**

Part Number	Description
FWA2-CASE	Hard Shell Transit Case
FWA-KEYB	US Style Keyboard
FWA-CHAR	Car Charger
FWA-VFL5	Handheld Visual Fault Locator 500
FWA-WAR1	1 yr Extended Warranty (total of 2 years warranty)
FWA-WAR2	2 yr Extended Warranty (total of 3 years warranty)
FWA-5001	100m OM3/OM4 Multimode Launch Cord in Soft Case <sup>(1)</sup>
FWA-5002	100m 50µm OM3/OM4 Multimode Launch Cord in Hard Case <sup>(1)</sup>
FWA-6201	100m 62.5µm Multimode Launch Cord in Soft Case <sup>(1)</sup>
FWA-6202	100m 62.5µm Multimode Launch Cord in Hard Case <sup>(1)</sup>
FWA-SM01	305m Single-mode Launch Cord in Soft Case <sup>(1)</sup>
FWA-SM02	305m Single-mode Launch Cord in Hard Case <sup>(1)</sup>
FWA-LCR2	One-click tip style cleaner for 1.25mm ferrule connectors (800 cleanings)
FWA-SCR1	One-click tip style cleaner for 2.5mm ferrule connectors (800 cleanings)
FWA-INSP	Inspection scope with 200-400X magnification (Includes IEC acceptance software and 4 adapters)

(1) Specify launch cord connector types when placing an order

**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.



designed and built in the USA

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