OptiConcepts
FiberWarrior Pro™ Insertion Loss Test Set

Key Features & Benefits

• FTTx/PON testing compliance

• Mandrel free reference set-up

• Intuitive and user friendly interface for accurate referencing and measuring

• Real-Time, Auto-Test, and Logging mode

• 8.4" Active TFT Color Touchscreen

• USB and Ethernet ports allow test data transfer to external sources

• Simple report generation

• Modular test platform flexibility

Markets & Applications

• Production and Laboratory Measurements

• Attenuation/Insertion Loss Test

• FTTx Testing

• Continuity Check

• Manufacturing Quality Compliance

• Optional Return Loss & Back Reflectance Testing

Overview

OptiConcepts FiberWarrior Pro™ Insertion Loss Test Set is used for the following functions: continuity check, fiber loss, return loss, and connector loss for OEM, lab, and production use as well as transport, metro, access, and FTTx/PON networks. The FiberWarrior Insertion Loss Test Set performs single-mode and multimode loss measurement functions, including single component and multi-fiber testing. Return loss testing is integrated into the optional single-mode back reflection test module.

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Specifications

Insertion Loss Module Specifications	
Wavelength (nm)	850/1310/1490/1550/1625
Available Source Wavelengths	850/1310/1490/1550/1625
Wavelength Range (nm)	± 20
Spectral Width (nm)	Single-mode 1310 = ±3 /Single-mode 1550 = ±3
	Multimode 850 = 35 /Multimode 1300 = 135
Stability at 23°C	Single-mode 1310 <0.05dB /Single-mode 1550 <0.05dB
[1 hour max deviation]	Multimode 850 <0.05dB /Multimode 1300 <0.05dB
Detector Type	InGaAs (2mm standard, 3 and 5mm available)
Power Meter Range	+5 to -70dBm
Absolute Accuracy	±0.25dB
Single-mode Power Output	-13dBm to -17dBm
Multimode Power Output	-20dBm +/-2.0dBm

FiberWarrior Pro Mainframe Specifications
Physical

	without battery	with battery
Weight	5.65 lbs (2.57kg)	7.35 lbs (3.34kg)
Dimensions	13.5 x 7.0 x 2.05 in (34.29 x 17.78 x 5.2 cm)	
Exterior Construction	Hybrid Anodized Aluminum/Acetal Shell	

Environmental

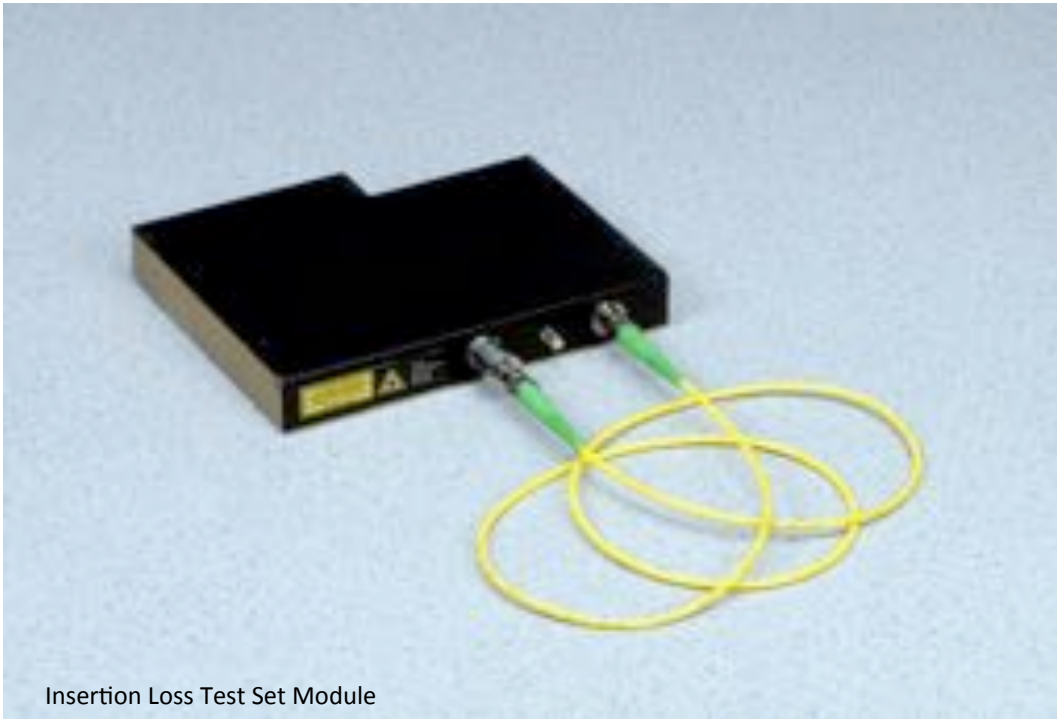|	
Operational Temperature	0° to 50°C
Storage Temperature	-20° to 60°C
Humidity	≤95% RH, Non Condensing

Electrical

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

Computing

Processor	Atom N455 Class Processor
Operating System	OptiLin™ Linux or WindowsXP®
Storage	16Gb (larger options available by request)
RAM	1Gb
Ports and Outputs	(2) USB, Ethernet, Audio Speaker
Stylus	Custom Stylus with integrated snap holder
Wireless	Wi-Fi compatible

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Insertion Loss Test Set Module

Detailed Information

The modern design of the FiberWarrior Pro™ Insertion Loss Test Set allows for easy portability, storage, and reduced bench-top space in lab and manufacturing environments. Through a simple graphical user interface, the FiberWarrior Pro becomes a window to viewing the health of your optical system by utilizing three modes of operation: Logging, Real-time, and Auto-test. Logging mode allows engineering and laboratory personnel to document loss results over time. This is especially useful when qualifying the performance of optical components when exposed to variations in temperature, humidity, stress, and other similar factors. Real-time mode provides a method of measuring component loss in a traditional manner. Real-time mode is ideal for documenting loss values at one or more wavelengths in an efficient manner. Lastly, Auto-test mode is a great tool for commissioning and documenting newly deployed fiber systems by automating repetitive steps such as changing wavelengths, then provides an ultra easy system of documenting your fiber network. The FiberWarrior Pro features a high-quality 8.4" TFT LCD touchscreen 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 traces, graphs, tables, and other technical information through the carefully designed interface. The customizable touchscreen further enhances and simplifies usability by eliminating cumbersome buttons and controls. The USB and Ethernet ports instantly allow a virtually unlimited number of devices and connectivity methods to save files, network, print, and email to assist and enhance your optical testing experience.

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Ordering Information

Order (1) Mainframe, (1 or more) Insertion Loss Modules, and accessories as needed.

Mainframe

Part Number	Descriptions
FWP-MFRN	FiberWarrior Mainframe Industrial Unit
FWP-MFRB	FiberWarrior Mainframe with Rechargeable Li-Ion Battery

Modules

Part Number	
FWM-LMM0	Insertion Loss Multimode 850/1300nm, FC Connector Port
FWM-LSM0	Insertion Loss Single-mode 1310/1550nm, FC Connector Port
FWM-BSM0	Insertion Loss with Back Reflection Single-mode 1310/1550nm, FC Port

Note: Back Reflection Meter is necessary for optical return loss testing.

Accessories

Part Number	Descriptions
FWA-PM25	2.5mm Universal Meter Adapter (FC, SC, ST)
FWA-PM12	1.25mm Universal Meter Adapter (LC)
FWA-WAR1	1 yr Extended Warranty (total of 2 years warranty)
FWA-WAR2	2 yr Extended Warranty (total of 3 years warranty)

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

• LIT-113D