

FiberWarrior™ Insertion Loss Test Set

OptiConcepts



Applications

- Production and Laboratory Measurements
- Continuity Check
- Attenuation/Insertion Loss Test
- Optional Return Loss and Back Reflectance Testing
- Manufacturing Quality Compliance
- FTTx Testing

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

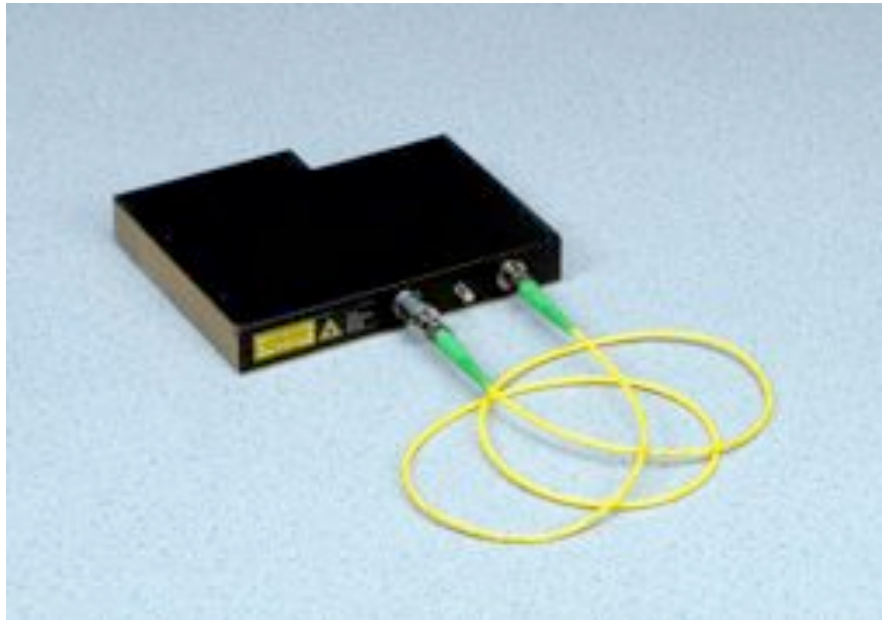
FiberWarrior™ Insertion Loss Test Set

OptiConcepts FiberWarrior 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. Optical return loss testing is integrated into the optional single-mode back reflection test module.

The FiberWarrior's small, lightweight design allows for easy portability, storage, and reduced bench-top space while the aluminum enclosure and protective bumpers enhance ruggedness when used in the field. Through a simple graphical user interface, FiberWarrior 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 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.



FiberWarrior Insertion Loss Module

FiberWarrior™ Insertion Loss Test Set

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 [1 hour max deviation]	Single-mode 1310 <0.05dB /Single-mode 1550 <0.05dB 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 Mainframe Specifications

Processor	533MHz x86
Operating System	OptiLin™ Linux or WindowsXP®
On-Board Flash Memory	2Gb (up to 16Gb available)
RAM	256Mb (up to 512Mb available)
Ports	2-USB, Ethernet
Display	8.4" Color TFT LCD
User Input Device	Resistive Touchscreen
Power Supply	AC, 100-250VAC, 50-60Hz
Battery	Rechargeable Li-Ion
Size	10.0" x 7.0" x 2.5" (25.40 x 17.78 x 6.35cm)
Weight	3.9lbs. (1.8kg)
Operational Temperature	0° to 50°C
Storage Temperature	-20 to 60°C
Humidity	0 to 95%, non-condensing

Ordering Information

<u>Mainframe</u>	
FiberWarrior Mainframe	FW-AQMI
FiberWarrior Mainframe w/ Battery	FW-AQMB
<u>Insertion Loss Modules</u>	
Insertion Loss MM 850/1300nm Module	FW-PMM
Insertion Loss SM 1310/1550nm Module	FW-PMS
Insertion Loss SM 1310/1550nm + Back Reflection Meter	FW-PMS-BR
Insertion Loss MM 850/1300nm + Back Reflection Meter	FW-PMM-BR
<u>Optical Meter Adapters</u>	
2.5um Universal Adapter	FW-PM-250
LC Adapter (Adapter required for Insertion Loss Modules)	FW-PM-LC
<u>Extended Warranties</u>	
Additional one year warranty	FW-WAR1
Additional two year warranty	FW-WAR2

designed and built in America