

# Fiber OWL 4 BOLT Quad Test Kit

SKU: KIT-FO4B-WSMDSxx (see connector options below)

## Multimode/Singlemode Fiber Certification Test Kit with integrated fiber length testing

### Overview

Many fiber optic network bids and Requests For Quote (RFQ) are citing cabling standards to specify the set of guidelines (such as fiber length) that the network installer must follow during the network installation. Adherence to such standards is meant to ensure the quality of the installation and guarantee that the network will perform as it was designed.

The process of testing a network installation to ensure its adherence to specified standards is called certification, and often requires hard-copy documentation as proof of adherence to standards.

The **Fiber OWL 4 BOLT Quad Test Kit** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in singlemode and multimode networks.

The **Fiber OWL 4 BOLT optical power meter** is multimode and singlemode ready, and contains a user-friendly Fiber Link Wizard that performs link budget calculation (including integrated fiber link length testing), and sets a reference value using the characteristics of the link. This reference is the PASS/FAIL threshold and is calculated against the chosen standard. Up to 1000 fiber runs may be stored, then serially downloaded to a PC for report generation using our OWL Reporter software.

It also includes intelligent automated testing functions, such as automatic dual-wavelength storage and auto-wavelength recognition, which reduce testing time and human error.

The **WaveSource Quad fiber optic light source** contains all four popular industry-standard wavelengths in a single unit, designed for accurate testing and certification of multimode (850nm & 1300nm) and singlemode (1310nm & 1550nm) networks. Its quad-wavelength outputs are temperature-stabilized for accurate measurements.

The **WaveSource Quad** has a built-in auto-wavelength switching protocol designed to synchronize the wavelength of the **Fiber OWL 4 BOLT** with the current output wavelength.

Three connector options are available (ST, SC, and FC).

### Kit Contents

<b>Power Meter:</b>	Fiber OWL 4 BOLT	<b>Light Source:</b>	WaveSource Quad		
<b>Accessories:</b>	OWL Reporter software	Product manuals	Download cable	9-volt batteries	
NIST certificate	Carrying case	Protective rubber boots	Carrying straps		



Connector styles or placement may vary from photo

### Features

Certification of singlemode fiber links at 1310nm and 1550nm and multimode fiber links at 850nm and 1300nm

Auto-wavelength recognition and automatic data storage reduce testing time and human error

Integrated fiber optic length tester for accurate link length measurements

Data storage for up to 1000 data points including run labels, fiber type, and link information including link name, date, reference power values, fiber length, and number of splices and interconnects

Built-in loss wizard for calculation of maximum allowable loss values (link budget)

RS-232 interface for continuous data logging, report printing, or data downloading

OWL Reporter software for printing formatted fiber certification reports

Absolute or relative mode for giving you instant pass/fail results  
Selectively view, delete or resample data points

### Supported Cabling Standards:

EIA/TIA 568-B	ISO/IEC 11801	10-Gigabit Ethernet
1000Base-SX	1000Base-LX	100Base-FX
10Base-FB	10Base-FL	FDDI
ATM-155	ATM-622	Fibre Channel
Token Ring		

Also supports 2 user-definable standards

### Additional Power Meter Calibrated Wavelengths:

980nm      1490nm      1625nm



MADE IN USA

**N.I.S.T. Traceable**

Product manuals come in PDF format on CD. Adobe Acrobat Reader™ is required to view these documents.

Patch cables are available for an additional charge. Contact OWL for more information.

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with integrated fiber length testing

## Specifications

### Fiber OWL 4 BOLT Optical Power Meter

<b>Detector Type</b>	InGaAs
<b>NIST Traceable Wavelengths</b>	850nm, 1300, 1310nm, 1550nm
<b>Additional Wavelengths</b>	980, 1490, 1625nm
<b>Optical Power Measurement Range</b>	+5 to -70 dBm
<b>Accuracy</b>	±0.15 dB
<b>Resolution</b>	0.01 dB
<b>Battery Life</b>	up to 100 hours (9V)
<b>Connector Type</b>	fixed 2.5mm Universal
<b>Data Storage Points</b>	up to 1000
<b>Download Data Points</b>	OWL Reporter Software
<b>Power Units Displayed</b>	dBm, dB, µW
<b>Modes of Operation</b>	Simple / Certification
<b>Optical Fiber Length Measurement Range</b>	up to 25 km
<b>Optical Fiber Length Measurement Accuracy</b>	±2.5 meters
<b>Battery Capacity Display</b>	Yes
<b>Backlight</b>	Yes
<b>NIST Traceable</b>	Yes
<b>Auto-shutdown</b>	Yes
<b>Serial Port Diagnostic</b>	Yes
<b>Operating Temperature</b>	-10 to 55 C
<b>Storage Temperature</b>	-30 to 70 C
<b>Width</b>	3.48"
<b>Height</b>	6.48"
<b>Depth</b>	1.1"
<b>Weight</b>	373g (12 oz.)

Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.

### WaveSource Quad Fiber Optic Light Source

<b>Launch Method (multimode)</b>	LED
<b>Launch Method (singlemode)</b>	FP Laser
<b>Connector</b>	ST, SC, or FC
<b>Center Wavelength (850nm)</b>	850 +30/-10nm
<b>Center Wavelength (1300nm)</b>	1300 ±50 nm
<b>Center Wavelength (1310nm)</b>	1310 ±30nm
<b>Center Wavelength (1550nm)</b>	1550 ±30nm
<b>Spectral Width (FWHM; 850 nm)</b>	50nm
<b>Spectral Width (FWHM; 1300nm)</b>	180nm
<b>Spectral Width (FWHM; 1310nm)</b>	2nm
<b>Spectral Width (FWHM; 1550nm)</b>	2nm
<b>Output Power (multimode)</b>	-20.0 dBm
<b>Output Power (singlemode)</b>	-10.0 dBm
<b>Initial Accuracy</b>	0.1 dB
<b>Output Modes</b>	Continuous Wave Modulated
<b>Battery Life</b>	up to 30 hrs.
<b>Battery Type</b>	9V alkaline
<b>Battery Capacity Display</b>	Yes
<b>Operating Temperature</b>	0 to 55° C
<b>Storage Temperature</b>	0 to 75° C
<b>Width</b>	2.75"
<b>Height</b>	4.94"
<b>Depth</b>	1.28"
<b>Weight</b>	154g

Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.



**o.w.l.** MANUFACTURER OF QUALITY OPTICAL FIBER TEST EQUIPMENT  
**OPTICAL WAVELENGTH LABORATORIES™**



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