

# Fiber OWL 4 BOLT / Dual OWL / Laser OWL Test Kit

SKU: KIT-FO4B-D2xx-L2xx (see connector options below)

Multimode/Singlemode  
Fiber Certification Test Kit

## 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 / Dual OWL / Laser OWL 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 downloaded to a PC for report generation using our OWL Reporter software.

The **Dual OWL fiber optic light source** is designed for accurate testing and certification of multimode networks. Its dual-wavelength outputs are temperature-stabilized for accurate measurements.

Two connector options are available (ST and SC).

The **Laser OWL fiber optic light source** is designed for accurate testing and certification of singlemode networks. Its dual-wavelength outputs are temperature-stabilized for accurate measurements.



## Features

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

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)

USB 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/C	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



ASSEMBLED IN USA

N.I.S.T. Traceable

## Kit Contents

<b>Power Meter:</b>	Fiber OWL 4 BOLT	<b>Light Source(s):</b>	Dual OWL	Laser OWL
<b>Accessories:</b>	OWL Reporter software	Product manuals	Download cable	9-volt batteries
NIST certificate	Carrying case	Protective rubber boots		

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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## Specifications

Fiber OWL 4 BOLT Optical Power Meter		Dual OWL Fiber Optic Light Source		Laser OWL Fiber Optic Light Source	
Detector Type	InGaAs	Launch Method (multimode)	LED	Launch Method (singlemode)	FP Laser
NIST Traceable Wavelengths	850, 1300, 1310, 1550nm	Connector	ST or SC	Connector	ST, SC, or FC
Additional Wavelengths	980, 1490, 1625nm	Center Wavelength (850nm)	850 ±30 nm	Center Wavelength (1310nm)	1310 ±30nm
Optical Power Measurement Range	+5 to -70 dBm	Center Wavelength (1300nm)	1290nm min 1350nm max	Center Wavelength (1550nm)	1550 ±30nm
Accuracy	±0.15 dB	Spectral Width (FWHM; 850 nm)	60nm	Spectral Width (FWHM; 1310nm)	2nm
Resolution	0.01 dB	Spectral Width (FWHM; 1300nm)	170nm	Spectral Width (FWHM; 1550nm)	2nm
Battery Life	up to 100 hours (9V)	Output Power	-20.0 dBm	Output Power (singlemode)	-10.0 dBm
Connector Type	Universal	Initial Accuracy	0.1 dB	Initial Accuracy	0.1 dB
Data Storage Points	up to 1000	Output Modes	Continuous Wave	Output Modes	Continuous Wave
Download Data Points Software	OWL Reporter	Battery Life	up to 40 hrs.	Battery Life	up to 25 hrs.
Power Units Displayed	dBm, dB, µW	Battery Type	9V alkaline	Battery Type	9V alkaline
Modes of Operation	Simple / Certification	Battery Capacity Display	Yes	Battery Capacity Display	Yes
Optical Fiber Length Measurement Range	up to 25 km	Operating Temperature	0 to 55° C	Operating Temperature	0 to 55° C
Optical Fiber Length Measurement Accuracy	±2.5 meters	Storage Temperature	0 to 75° C	Storage Temperature	0 to 75° C
Battery Capacity Display	Yes	Width	2.75"	Width	2.75"
Backlight	Yes	Height	4.94"	Height	4.94"
NIST Traceable	Yes	Depth	1.28"	Depth	1.28"
Auto-shutdown	Yes	Weight	154g	Weight	154g
Serial Port Diagnostic	Yes				
Operating Temperature	-10 to 55 C				
Storage Temperature	-30 to 70 C				
Width	3.48"				
Height	6.48"				
Depth	1.1"				
Weight	373g (12 oz.)				

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

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