

Fiber OWL 4 Laser OWL Test Kit

Singlemode Fiber Certification Test Kit

Overview

Many fiber optic network bids and Requests For Quote (RFQ) are citing cabling standards that 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 Laser OWL Test Kit** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in singlemode networks.

The **Fiber OWL 4 optical power meter** is multimode and singlemode ready, and contains a user-friendly Fiber Link Wizard that performs link budget calculation 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.

The **Laser OWL fiber optic light source** is designed for accurate testing and certification of singlemode (1310nm & 1550nm) networks. Its dual-wavelength outputs are temperature-stabilized for accurate measurements.

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



Features

Certification of singlemode fiber links at 1310nm and 1550nm
Optional 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	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

Kit Contents

Power Meter:	Fiber OWL 4	Light Source:	Laser OWL		
Accessories:	OWL Reporter software	Product manuals	Download cable	9-volt batteries	
NIST certificate	Carrying case	Protective rubber boots	Carrying straps		



ASSEMBLED 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.

Specifications

Fiber OWL 4 Optical Power Meter

Detector Type	InGaAs
NIST Traceable Wavelengths	850nm, 1300, 1310nm, 1550nm
Additional Wavelengths	980, 1490, 1625nm
Optical Power Measurement Range	+5 to -70 dBm
Accuracy	±0.15 dB
Resolution	0.01 dB
Battery Life	up to 100 hours (9V)
Connector Type	fixed 2.5mm Universal
Data Storage Points	up to 1000
Download Data Points	OWL Reporter Software
Power Units Displayed	dBm, dB, µW
Modes of Operation	Simple / Certification
Battery Capacity Display	Yes
Backlight	Yes
NIST Traceable	Yes
Auto-shutdown	Yes
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.

Laser OWL Fiber Optic Light Source

Launch Method (singlemode)	FP Laser
Connector	ST, SC, or FC
Center Wavelength (1310nm)	1310 ±30nm
Center Wavelength (1550nm)	1550 ±30nm
Spectral Width (FWHM; 1310nm)	2nm
Spectral Width (FWHM; 1550nm)	2nm
Output Power (singlemode)	-10.0 dBm
Initial Accuracy	0.1 dB
Output Modes	Continuous Wave
Battery Life	up to 25 hrs.
Battery Type	9V alkaline
Battery Capacity Display	Yes
Operating Temperature	0 to 55° C
Storage Temperature	0 to 75° C
Width	2.75"
Height	4.94"
Depth	1.28"
Weight	154g

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

