Fiber OWL / Dual OWL 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 / Dual OWL Test Kit* contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in multi-mode networks.

The *Fiber OWL optical power meter* is multi-mode and single mode 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 900 fiber runs may be stored, and serially downloaded to a PC for report generation using our OWL Reporter software.

The Fiber OWL is available in two configurations. The Fiber OWL 2+ has a measurement range of +5 to -70 dBm, and the Fiber OWL 2C+ has a measurement range of +25 to -50 dBm.

The *Dual OWL* is our NIST traceable multi-mode light source. Its dual wavelength outputs (850nm / 1300nm) are temperature-stabilized for accurate measurements. Two connector options are available (ST and SC).

Connector styles may vary from photo

Kit Contents

Power Meter:	Fiber OWL
Light Source:	Dual OWL
Accessories:	OWL Reporter software
	Product manuals
	Download cable
	9-volt batteries
	NIST certificate
	Carrying case

Features

- Certification of multi-mode fiber links at 850nm and 1300nm
- Data storage for up to 900 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 Measurement Wavelengths:

980nm	1310nm
1480nm	1550nm

NIST Traceable

MADE IN USA

CE

O.W.L. **O**ptical **W**avelength **L**aboratories

Manufacturer of Quality Optical Fiber Test Equipment

Specifications

Fiber OWL Optical Power Meter

Detector Type	Ge (2mm)
Supported Fiber Types	62.5/125 μm multi-mode 50/125 μm multi-mode 100/140 μm multi-mode 7-9/125 μm single mode
Calibrated Wavelengths	850nm, 980nm, 1300nm / 1310nm, 1550nm
Additional Wavelengths	1480nm
Measurement Range	+5 to -70 dBm (FO2+) +25 to -50 dBm (FO-2C+)
Accuracy	±0.15 dB
Resolution	0.01 dB
Battery Life	up to 200 hours (9V)
Connector Type	2.5mm Universal
Data Storage Points	up to 900
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.)

Dual OWL Multi-mode Light Source

Launch Method	LED
Connector	ST or SC
Center Wavelength (850nm)	850 ±20nm
Center Wavelength (1300nm)	1290nm min 1350nm max
Spectral Width (FWHM; 850 nm)	35 nm
Spectral Width(FWHM; 1300nm)	170nm
Output Power (62.5μm core)	-20.0 dBm
Initial Accuracy	0.1 dB
Fiber Type	Multi-mode
Battery Life	40 hrs.
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

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. Call 262-473-0643 for more information.

Protective rubber boots for the Fiber OWL are not yet available.

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