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).

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Kit Contents

Power Meter: Fiber OWL

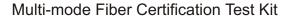
Light Source: Dual OWL

Accessories:

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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





9623 US Hwy 12, Whitewater, WI 53190 Phone (262)473-0643 Fax: (262)473-8737 http://owl-inc.com

Manufacturer of Quality Optical Fiber Test Equipment

Multi-mode Fiber Certification Test Kit

Specifications

Fiber OWL Optical Power Meter

Detector Type	Ge (2mm)	Launch
Supported Fiber Types	62.5/125 µm multi-mode	Connec
	50/125 µm multi-mode 100/140 µm multi-mode	Center
	7-9/125 µm single mode	Center
Calibrated Wavelengths	850nm, 980nm,	
	1300nm / 1310nm, 1550nm	Spectra
Additional Wavelengths		Spectra
Measurement Range	+5 to -70 dBm (FO2+)	Output
measurement Range	+25 to -50 dBm (FO-2C+)	Initial A
Accuracy	±0.15 dB	Fiber T
Resolution	0.01 dB	Battery
Battery Life	up to 200 hours (9V)	Battery
Connector Type	2.5mm Universal	Operati
Data Storage Points	up to 900	Storage
Download Data Points	OWL Reporter Software	Width
Power Units Displayed	dBm, dB, μW	Height
Modes of Operation	Simple / Certification	Depth
Battery Capacity Display	Yes	Weight
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.)	

LED h Method ST or SC ctor Wavelength (850nm) 850 ±20nm Wavelength (1300nm) 1290nm min 1350nm max al Width (FWHM; 850 nm) 35 nm al Width(FWHM; 1300nm) 170nm Power (62.5µm core) -20.0 dBm 0.1 dB Accuracy уре Multi-mode Life 40 hrs. / Capacity Display Yes ing Temperature 0 to 55° C e Temperature 0 to 75° C 2.75" 4.94" 1.28" 154g

Dual OWL Multi-mode Light Source

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.



D.U.L. Optical Wavelength Laboratories Manufacturer of Quality Optical Fiber Test Equipment



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