# Fiber OWL / Dual OWL / Laser 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 / Laser OWL* contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in both multi-mode and single mode networks.

The *Fiber OWL 2+ 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 *Laser OWL* is our single mode light source. Its dual wavelength outputs (1310nm / 1550nm) are temperature-stabilized for accurate measurements. Three connector options are available (ST, SC, and FC). The Laser OWL is also available with 2.5mm Universal connectors, but is not included with this kit for physics reasons.

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



MADE IN USA



**D.W.L.** Optical Wavelength Laboratories



## Kit Contents

Power Meter:	Fiber OWL		
Light Source:	Dual OWL (mu		

- Source: Dual OWL (multi-mode) Laser OWL (single mode)
- Accessories: OWL Reporter software Product manuals
  - Download cable
  - 9-volt batteries
  - NIST certificate
  - Carrying case

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

### Features

- Certification of multi-mode fiber links at 850nm and 1300nm, and single mode links at 1310nm and 1550nm
- 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	1480nm				

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



Patch cables are available for an additional charge. Call 262-473-0643 for more information.

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Manufacturer of Quality Optical Fiber Test Equipment



# Fiber OWL / Dual OWL / Laser OWL Test Kit

Laser OWL Single Mode Laser Source

## **Specifications**

Weight

#### **Fiber OWL Optical Power Meter**

**Dual OWL Multi-mode Light Source** 

Detector Type	Ge (2mm)	Launch Method	LED	Launch Method	FP Laser
Supported Fiber Types	62.5/125 µm multi-mode	Connector	ST or SC	Connector	ST, SC, or FC
	50/125 µm multi-mode 100/140 µm multi-mode	Center Wavelength (850nm)	850 ±20nm	Center Wavelength (1310nm)	1310 ±30nm
	7-9/125 µm single mode	Center Wavelength (1300nm)	1290nm min	Center Wavelength (1550nm)	1550 ±30nm
Calibrated Wavelengths	850nm, 980nm,		1350nm max	Spectral Width (FWHM; 1310 / 1550 nm)	2 nm
	1300nm / 1310nm, 1550nm	Spectral Width (FWHM; 850 nm)		Output Power (9µm core)	-10.0 dBm
Additional Wavelengths		Spectral Width(FWHM; 1300nm)	170nm	Initial Accuracy	0.1 dB
Measurement Range	+5 to -70 dBm (FO2+)	Output Power (62.5µm core)	-20.0 dBm	Fiber Type	Single Mode
measurement range	+25 to -50 dBm (FO-2C+)	Initial Accuracy	0.1 dB	Battery Life	25 hrs.
Accuracy	±0.15 dB	Fiber Type	Multi-mode	Battery Capacity Display	Yes
Resolution	0.01 dB	Battery Life	40 hrs.	Operating Temperature	0 to 55° C
Battery Life	up to 200 hours (9V)	Battery Capacity Display	Yes	Storage Temperature	0 to 75° C
Connector Type	2.5mm Universal	Operating Temperature	0 to 55° C	Width	2.75"
Data Storage Points	up to 900	Storage Temperature	0 to 75° C	Height	4.94"
Download Data Points	OWL Reporter Software	Width	2.75"	Depth	1.28"
Power Units Displayed	dBm, dB, μW	Height	4.94"	Weight	154g
Modes of Operation	Simple / Certification	Depth	1.28"		
Battery Capacity Display	r Yes	Weight	154g		
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"				



373g (12 oz.)

