

# Micro OWL+ / Dual OWL / Laser OWL Test Kit

Single Mode and Multi-mode Ready  
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 **Micro OWL+ / Dual OWL / Laser OWL Test Kit** contains the tools necessary for certifying fiber optic links against the 568-B cabling standard in multi-mode and single mode networks.

The **Micro 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 1000 fiber runs may be stored, and serially downloaded to a PC for report generation using our OWL Reporter software.

The Micro OWL+ is available with two connector types:

-- 2.5mm / 1.25 Universal (2mm Ge detector). Adapter end is removable, and can be replaced by a 1.25 mm universal adapter for use with LC connectors.

--- 2.5mm Universal (1mm Ge detector). Adapter end is fixed.

Universal adapters connect to ST, SC, and FC without changing caps.

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).

The **Laser OWL** is our NIST traceable 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).



## Kit Contents

- Power Meter:** Micro OWL+
- Light Source:** Dual OWL  
Laser 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 and single mode fiber links at 1310nm and 1550nm
- 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

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

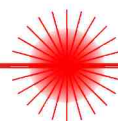


Patch cables are available for an additional charge. Call 262-473-0643 for more information.



MADE IN USA

NIST  
Traceable



## Specifications

Micro OWL+ Optical Power Meter		Dual OWL Multi-mode Light Source		Laser OWL Single Mode Laser Source	
<b>Detector Type</b>	Ge (1mm, 2.5mm Univ. fixed) Ge (2mm, 2.5mm/1.25mm Univ.)	<b>Launch Method</b>	LED	<b>Launch Method</b>	FP Laser
<b>Supported Fiber Types</b>	62.5/125 $\mu$ m multi-mode 50/125 $\mu$ m multi-mode 100/140 $\mu$ m multi-mode 7-9/125 $\mu$ m single mode	<b>Connector</b>	ST or SC	<b>Connector</b>	ST, SC, or FC
<b>Calibrated Wavelengths</b>	850nm, 1300nm / 1310nm, 1550nm	<b>Center Wavelength (850nm)</b>	850 $\pm$ 20nm	<b>Center Wavelength (1310nm)</b>	1310 $\pm$ 30nm
<b>Measurement Range</b>	+5 to -70 dBm	<b>Center Wavelength (1300nm)</b>	1290nm min 1350nm max	<b>Center Wavelength (1550nm)</b>	1550 $\pm$ 30nm
<b>Accuracy</b>	$\pm$ 0.15 dB	<b>Spectral Width (FWHM; 850 nm)</b>	35 nm	<b>Spectral Width (FWHM)</b>	2 nm
<b>Resolution</b>	0.01 dB	<b>Spectral Width(FWHM; 1300nm)</b>	170nm	<b>Output Power (9<math>\mu</math>m core)</b>	-10.0 dBm
<b>Battery Life</b>	up to 100 hours (9V)	<b>Output Power (62.5<math>\mu</math>m core)</b>	-20.0 dBm	<b>Initial Accuracy</b>	0.1 dB
<b>Connector Type</b>	2.5mm removable (Universal+) 2.5mm fixed (FX+)	<b>Initial Accuracy</b>	0.1 dB	<b>Fiber Type</b>	Single Mode
<b>Data Storage Points</b>	up to 1000	<b>Fiber Type</b>	Multi-mode	<b>Battery Life</b>	25 hrs.
<b>Download Data Points</b>	OWL Reporter Software	<b>Battery Capacity Display</b>	Yes	<b>Battery Capacity Display</b>	Yes
<b>Power Units Displayed</b>	dBm, dB, $\mu$ W	<b>Operating Temperature</b>	0 to 55° C	<b>Operating Temperature</b>	0 to 55° C
<b>Battery Capacity Display</b>	Yes	<b>Storage Temperature</b>	0 to 75° C	<b>Storage Temperature</b>	0 to 75° C
<b>Backlight</b>	Yes	<b>Width</b>	2.75"	<b>Width</b>	2.75"
<b>NIST Traceable</b>	Yes	<b>Height</b>	4.94"	<b>Height</b>	4.94"
<b>Auto-shutdown</b>	Yes	<b>Depth</b>	1.28"	<b>Depth</b>	1.28"
<b>Operating Temperature</b>	-10 to 55 C	<b>Weight</b>	154g	<b>Weight</b>	154g
<b>Storage Temperature</b>	-30 to 70 C				
<b>Width</b>	3.48"				
<b>Height</b>	6.48"				
<b>Depth</b>	1.1"				
<b>Weight</b>	373g (12 oz.)				