

Micro OWL+ / Dual OWL Test Kit

Multi-mode 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 Test Kit** contains the tools necessary for certifying fiber optic links against the 568-B cabling standard in multi-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).



Kit Contents

Power Meter:	Micro 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 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

Additional Measurement Wavelengths:

1310nm

1550nm

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.



**NIST
Traceable**



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Specifications

Micro OWL+ Optical Power Meter

Detector Type	Ge (1mm, 2.5mm Univ. fixed) Ge (2mm, 2.5mm/1.25mm Univ.)
Supported Fiber Types	62.5/125 μ m multi-mode 50/125 μ m multi-mode 100/140 μ m multi-mode 7-9/125 μ m single mode
Calibrated Wavelengths	850nm, 1300nm / 1310nm, 1550nm
Measurement Range	+5 to -70 dBm
Accuracy	$\pm$ 0.15 dB
Resolution	0.01 dB
Battery Life	up to 100 hours (9V)
Connector Type	2.5mm removable (Universal+) 2.5mm fixed (FX+)
Data Storage Points	up to 1000
Download Data Points	OWL Reporter Software
Power Units Displayed	dBm, dB, μ W
Battery Capacity Display	Yes
Backlight	Yes
NIST Traceable	Yes
Auto-shutdown	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 $\pm$ 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