

Micro OWL+ / Laser OWL Test Kit

Single 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+ / Laser OWL Test Kit** contains the tools necessary for certifying fiber optic links against the 568-B cabling standard in 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 **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:** Laser OWL
- Accessories:** OWL Reporter software
Product manuals
Download cable
9-volt batteries
NIST certificate
Carrying case

Features

- Certification of 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

Additional Measurement Wavelengths:

850nm

1300nm

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



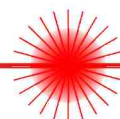
Patch cables are available for an additional charge. Call 262-473-0643 for more information.



NIST
Traceable



Manufacturer of Quality Optical Fiber Test Equipment



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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	± 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.)

Laser OWL Single Mode Laser Source

Launch Method	FP Laser
Connector	ST, SC, or FC
Center Wavelength (1310nm)	1310 ± 30 nm
Center Wavelength (1550nm)	1550 ± 30 nm
Spectral Width (FWHM; 1310 / 1550 nm)	2 nm
Output Power (9μm core)	-10.0 dBm
Initial Accuracy	0.1 dB
Fiber Type	Single Mode
Battery Life	25 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