Fiber OWL 4 Dual OWL Laser OWL Test Kit

Multimode/Singlemode Fiber Certification Test Kit

Overview

Many fiber optic network bids and Requests For Quote (RFQ) are citing cabling standards to specify the set of quidelines (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 4 Dual OWL Laser OWL Test Kit contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in singlemode and multimode networks.

The Fiber OWL 4 optical power meter is multimode and singlemode 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, then serially downloaded to a PC for report generation using our OWL Reporter software.

The Dual OWL fiber optic light source is designed for accurate testing and certification of multimode networks. Its dual-wavelength outputs are temperature-stabilized for accurate measurements.

Two connector options are available (ST and SC).

The Laser OWL fiber optic light source is designed for accurate testing and certification of singlemode networks. Its dual-wavelength outputs are temperature-stabilized for accurate measurements.

Three connector options are available (ST, SC, and FC).



Features

Certification of singlemode fiber links at 1310nm and 1550nm and multimode fiber links at 850nm and 1300nm

Optional integrated fiber optic length tester for accurate link length measurements

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 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 Power Meter Calibrated Wavelengths:

980nm 1490nm 1625nm



N.I.S.T. Traceable

Power Meter: Fiber OWL 4 Dual OWL & Laser OWL **Light Source:**

Accessories: **OWL** Reporter software

Carrying case

Product manuals Protective rubber boots Download cable Carrying straps

9-volt batteries

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

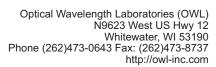
Patch cables are available for an additional charge. Contact OWL for more information.



NIST certificate

Kit Contents

0.W.L MANUFACTURER OF QUALITY OPTICAL FIBER TEST EQUIPMENT OPTICAL WAVELENGTH LABORATORIES™



Specifications

Fiber OWL 4 Optical Power Meter

Detector Type InGaAs

NIST Traceable 850nm, 1300, 1310nm,

1550nm Wavelengths

Additional Wavelengths 980, 1490, 1625nm

Optical Power +5 to -70 dBm

Measurement Range

±0.15 dB Accuracy Resolution 0.01 dB

up to 100 hours (9V) **Battery Life Connector Type** fixed 2.5mm Universal

Data Storage Points up to 1000

Download Data Points OWL Reporter Software

Power Units Displayed dBm, dB, µW

Modes of Operation Simple / Certification

Battery Capacity Display Yes

Backlight Yes **NIST Traceable** Yes Auto-shutdown Yes

Serial Port Diagnostic Yes

Operating Temperature -10 to 55 C -30 to 70 C

Storage Temperature Width 3.48" Height 6.48"

1.1" Depth

Weight 373q (12 oz.)

Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.

Dual OWL Fiber Optic Light Source

Launch Method (multimode) **LED** ST or SC Connector Center Wavelength (850nm) 850 ±20 nm Center Wavelength (1300nm) 1290nm min

1350nm max

Spectral Width (FWHM: 850 nm) 35nm Spectral Width (FWHM; 1300nm) 170nm -20.0 dBm

Output Power 0.1 dB **Initial Accuracy**

Ouput Modes Continuous Wave **Battery Life** up to 40 hrs.

Battery Type 9V alkaline **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

Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.

154q

Laser OWL Fiber Optic Light Source

FP Laser

Connector ST. SC. or FC Center Wavelength (1310nm) 1310 ±30nm Center Wavelength (1550nm) 1550 ±30nm

Spectral Width (FWHM; 1310nm) 2nm Spectral Width (FWHM; 1550nm) 2nm

Launch Method (singlemode)

Output Power (singlemode) -10.0 dBm 0.1 dB **Initial Accuracy**

Ouput Modes Continuous Wave **Battery Life** up to 25 hrs. 9V alkaline **Battery Type**

Battery Capacity Display Yes

Weight

Operating Temperature 0 to 55° C **Storage Temperature** 0 to 75° C Width 2.75" 4.94" Height Depth 1.28"

Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.

154a