## 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 4C 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 4C 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

Filtered detector for high-power applications such as telco and CATV

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



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N.I.S.T. Traceable

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

Accessories: OWL Reporter software
NIST certificate Carrying case

Carrying case Protective rubber boots

Product manuals

Download cable
Carrying straps

9-volt batteries

Reader<sup>™</sup> is required to view these documents.

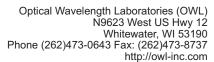
Patch cables are available for an additional charge. Contact  $\mbox{\rm OWL}$  for more information.

Product manuals come in PDF format on CD. Adobe Acrobat



Kit Contents

OPTICAL WAVELENGTH LABORATORIES\*\*\*



# **Specifications**

Fiber OWL 4C Opt	cal Power Meter
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Detector Type Filtered InGaAs

NIST Traceable 850nm, 1300, 1310nm,
Wavelengths 1550nm

Additional Wavelengths 980, 1490, 1625nm
Optical Power +25 to -50 dBm

**Measurement Range** 

 Accuracy
 ±0.15 dB

 Resolution
 0.01 dB

Battery Life up to 100 hours (9V)

Connector Type fixed 2.5mm Universal

Data Storage Points up to 1000

Download Data Points OWL Reporter Software

 $\textbf{Power Units Displayed} \quad \text{dBm, dB, } \mu W$ 

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 Storage Temperature -30 to 70 C Width 3.48"

 Width
 3.48"

 Height
 6.48"

 Depth
 1.1"

Weight 373g (12 oz.)

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

# **Dual OWL Fiber Optic Light Source**

Launch Method (multimode)LEDConnectorST or SCCenter Wavelength (850nm)850 ±20 nmCenter Wavelength (1300nm)1290nm min1350nm max

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

Initial Accuracy 0.1 dB

Ouput Modes Continuous Wave
Battery Life up to 40 hrs.
Battery Type 9V alkaline

Battery Capacity DisplayYesOperating Temperature0 to 55° CStorage Temperature0 to 75° CWidth2.75"Height4.94"

 Depth
 1.28"

 Weight
 154g

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

# **Laser OWL Fiber Optic Light Source**

FP Laser

ConnectorST, SC, or FCCenter Wavelength (1310nm)1310 ±30nmCenter Wavelength (1550nm)1550 ±30nm

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

Launch Method (singlemode)

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

Ouput Modes Continuous Wave
Battery Life up to 25 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 154q

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