

# Fiber OWL 4 / Dual OWL / Laser OWL Test Kit

SKU: KIT-FO4-D2xx-L2xx (see connector options below)

## 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 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 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 |
|-------|--------|--------|



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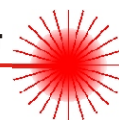
**N.I.S.T. Traceable**

### Kit Contents

|                     |                       |                         |                 |                  |
|---------------------|-----------------------|-------------------------|-----------------|------------------|
| <b>Power Meter:</b> | Fiber OWL 4           | <b>Light Source(s):</b> | Dual OWL        | Laser OWL        |
| <b>Accessories:</b> | OWL Reporter software | Product manuals         | Download cable  | 9-volt batteries |
| NIST certificate    | Carrying case         | Protective rubber boots | Carrying straps |                  |

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.



# Fiber OWL 4 / Dual OWL / Laser OWL Test Kit

SKU: KIT-FO4-D2xx-L2xx (see connector options below)

Multimode/Singlemode Fiber Certification Test Kit

## Specifications

### Fiber OWL 4 Optical Power Meter

|                                        |                             |
|----------------------------------------|-----------------------------|
| <b>Detector Type</b>                   | InGaAs                      |
| <b>NIST Traceable Wavelengths</b>      | 850nm, 1300, 1310nm, 1550nm |
| <b>Additional Wavelengths</b>          | 980, 1490, 1625nm           |
| <b>Optical Power Measurement Range</b> | +5 to -70 dBm               |
| <b>Accuracy</b>                        | ±0.15 dB                    |
| <b>Resolution</b>                      | 0.01 dB                     |
| <b>Battery Life</b>                    | up to 100 hours (9V)        |
| <b>Connector Type</b>                  | 2.5mm universal             |
| <b>Data Storage Points</b>             | up to 1000                  |
| <b>Download Data Points</b>            | OWL Reporter Software       |
| <b>Power Units Displayed</b>           | dBm, dB, $\mu$ W            |
| <b>Modes of Operation</b>              | Simple / Certification      |
| <b>Battery Capacity Display</b>        | Yes                         |
| <b>Backlight</b>                       | Yes                         |
| <b>NIST Traceable</b>                  | Yes                         |
| <b>Auto-shutdown</b>                   | Yes                         |
| <b>Serial Port Diagnostic</b>          | Yes                         |
| <b>Operating Temperature</b>           | -10 to 55 C                 |
| <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.)               |

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

### Dual OWL Fiber Optic Light Source

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>Launch Method (multimode)</b>     | LED                      |
| <b>Connector</b>                     | ST or SC                 |
| <b>Center Wavelength (850nm)</b>     | 850 ±20 nm               |
| <b>Center Wavelength (1300nm)</b>    | 1290nm min<br>1350nm max |
| <b>Spectral Width (FWHM; 850 nm)</b> | 35nm                     |
| <b>Spectral Width (FWHM; 1300nm)</b> | 170nm                    |
| <b>Output Power</b>                  | -20.0 dBm                |
| <b>Initial Accuracy</b>              | 0.1 dB                   |
| <b>Output Modes</b>                  | Continuous Wave          |
| <b>Battery Life</b>                  | up to 40 hrs.            |
| <b>Battery Type</b>                  | 9V alkaline              |
| <b>Battery Capacity Display</b>      | Yes                      |
| <b>Operating Temperature</b>         | 0 to 55° C               |
| <b>Storage Temperature</b>           | 0 to 75° C               |
| <b>Width</b>                         | 2.75"                    |
| <b>Height</b>                        | 4.94"                    |
| <b>Depth</b>                         | 1.28"                    |
| <b>Weight</b>                        | 154g                     |

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

### Laser OWL Fiber Optic Light Source

|                                      |                 |
|--------------------------------------|-----------------|
| <b>Launch Method (singlemode)</b>    | FP Laser        |
| <b>Connector</b>                     | ST, SC, or FC   |
| <b>Center Wavelength (1310nm)</b>    | 1310 ±30nm      |
| <b>Center Wavelength (1550nm)</b>    | 1550 ±30nm      |
| <b>Spectral Width (FWHM; 1310nm)</b> | 2nm             |
| <b>Spectral Width (FWHM; 1550nm)</b> | 2nm             |
| <b>Output Power (singlemode)</b>     | -10.0 dBm       |
| <b>Initial Accuracy</b>              | 0.1 dB          |
| <b>Output Modes</b>                  | Continuous Wave |
| <b>Battery Life</b>                  | up to 25 hrs.   |
| <b>Battery Type</b>                  | 9V alkaline     |
| <b>Battery Capacity Display</b>      | Yes             |
| <b>Operating Temperature</b>         | 0 to 55° C      |
| <b>Storage Temperature</b>           | 0 to 75° C      |
| <b>Width</b>                         | 2.75"           |
| <b>Height</b>                        | 4.94"           |
| <b>Depth</b>                         | 1.28"           |
| <b>Weight</b>                        | 154g            |

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



**o.w.l.** MANUFACTURER OF QUALITY OPTICAL FIBER TEST EQUIPMENT  
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