

WaveTester / Dual OWL / Laser OWL Test Kit

SKU: KIT-WT-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 **WaveTester / Dual OWL / Laser OWL Test Kit** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in multimode networks at 850 nm and 1300 nm, and singlemode networks at 1310 nm and 1550 nm.

The **WaveTester optical power meter** is multimode and singlemode ready, and can store reference values for all wavelengths used for optical loss measurements. Up to 200 fiber runs may be stored, and serially downloaded to a PC for report generation using our OWL Reporter software.

The **Dual OWL** is a multimode light source. Its output is temperature-stabilized for accurate measurements. Two connector options are available (ST and SC).

The **Laser OWL** is a singlemode light source. Its output is temperature-stabilized for accurate measurements. Two connector options are available (ST and SC).



Features

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

Data storage for up to 200 data points

USB interface for continuous data logging, report printing, or data downloading

OWL Reporter software for printing formatted fiber certification reports

Measurement modes include absolute (for optical power) or relative (for optical loss)

Selectively view, delete or resample data points

Supported Cabling Standards:

| | | |
|---------------|---------------|---------------------|
| EIA/TIA 568-B | ISO/IEC 11801 | 10-Gigabit Ethernet |
| 1000Base-SX | 1000Base-LX | 100Base-FX |
| 10Base-FB | 10Base-FL | FDDI |
| ATM-155 | ATM-622 | Fibre Channel |
| Token Ring | | |

Kit Contents

| | |
|----------------------|--|
| Power Meter: | WaveTester |
| Light Source: | Dual OWL Laser OWL |
| Accessories: | OWL Reporter software Product manuals Download cable 9-volt batteries NIST certificate Carrying case Protective rubber boots |



ASSEMBLED IN USA

N.I.S.T. Traceable

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.



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Specifications

WaveTester Optical Power Meter

| | |
|-----------------------------------|---------------------------------------|
| Detector Type | InGaAs |
| NIST Traceable Wavelengths | 850nm, 1300nm, 1310nm, 1490nm, 1550nm |
| Measurement Range | +5 to -60 dBm |
| Accuracy | ±0.15 dB |
| Resolution | 0.01 dB |
| Connector Type | 2.5mm Universal |
| Data Storage Points | up to 200 |
| Download Data Points | OWL Reporter Software |
| Power Units Displayed | dBm, dB, μ W |
| Battery Life | 250 hrs. (9v alkaline) |
| 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 | 2.75" |
| Height | 4.94" |
| Depth | 1.28" |
| Weight | 154g |

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

Dual OWL Multimode Light Source

| | |
|--|----------------------------|
| Launch Method | LED |
| Connector | ST or SC |
| Center Wavelength (850 nm) | 850 ±30 nm |
| Center Wavelength (1300 nm) | 1290 nm min 1350 nm max |
| Spectral Width (FWHM; 850 nm) | 60 nm |
| Spectral Width(FWHM; 1300 nm) | 170 nm |
| Output Power (62.5μm core) | -20.0 dBm |
| Initial Accuracy | 0.1 dB |
| Fiber Type | multimode |
| 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 |

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

Laser OWL Singlemode Laser Source

| | |
|---|-------------|
| Launch Method | FP Laser |
| Connector | ST or SC |
| Center Wavelength (1310 nm) | 1310 ±30 nm |
| Center Wavelength (1550 nm) | 1550 ±30 nm |
| Spectral Width (FWHM; 1310 nm) | 2 nm |
| Spectral Width (FWHM; 1550 nm) | 2 nm |
| Output Power (9μm core) | -10.0 dBm |
| Initial Accuracy | 0.1 dB |
| Fiber Type | singlemode |
| 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 |

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

