# WaveTester / WaveSource HP 1310/1550 Test Kit

Singlemode Fiber Certification Test Kit

**SKU: KIT-WT-WSSDxx-HP (see connector options below)**

## *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 / WaveSource 1310/1550 Test Kit*** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in singlemode networks.

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 ***WaveSource 1310/1550*** singlemode light source has dual wavelength outputs (1310 nm & 1550 nm) that are temperature-stabilized for accurate measurements. Two connector options are available (ST or SC).


(actual light source configurations may vary from photo)

## *Features*

Certification of singlemode fiber links at 1310 nm and 1550 nm

Auto-test functions store references and data points automatically

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 | | |

**Additional Power Meter Calibrated Wavelengths:**

850nm 1300nm

MADE IN USA

N.I.S.T. Traceable

## *Kit Contents*

**Power Meter:** WaveTester

**Light Source:** WaveSource 1310/1550

**Accessories:**
- 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.

O.W.L. MANUFACTURER OF QUALITY OPTICAL FIBER TEST EQUIPMENT

OPTICAL WAVELENGTH LABORATORIES™

Optical Wavelength Laboratories (OWL)
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## *Specifications*

### WaveTester Optical Power Meter

| | |
|---|---|
| **Detector Type** | InGaAs |
| **NIST Traceable Wavelengths** | 850 nm, 1300/1310 nm, 1550 nm |
| **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, µW |
| **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.

### WaveSource 1310/1550 Singlemode Laser Source

| | |
|---|---|
| **Launch Method** | FP Laser |
| **Connector** | ST, SC, FC |
| **Center Wavelength (1310 nm)** | 1310 ±30 nm |
| **Center Wavelength (1550 nm)** | 1550 ±30 nm |
| **Spectral Width (FWHM; 1310 / 1550 nm)** | 2 nm |
| **Output Power** | -3.0 dBm |
| **Initial Accuracy** | 0.1 dB |
| **Fiber Type** | singlemode |
| **Battery Capacity Display** | Yes |
| **Operating Temperature** | -20 to +70° C |
| **Storage Temperature** | -40 to +85° C |
| **Width** | 2.75” |
| **Height** | 4.94” |
| **Depth** | 1.28” |
| **Weight** | 154g |

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