

# WaveTester / WaveSource 850/1300/VFL Test Kit

KIT-WT-WSMDVxx (see connector options below)

Multimode 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 / WaveSource 850/1300/VFL Test Kit** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in multimode 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 850/1300/VFL** is a multimode light source. Its dual wavelength outputs (850 nm & 1300 nm) are temperature-stabilized for accurate measurements. A Visual Fault Locator is also included for near-end visual fault location and visual fiber identification. Two connector options are available (ST or SC).



## Features

- Certification of multimode fiber links at 850 nm and 1300 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)
- Near-end visual fault location
- Visual fiber identification
- 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:

1310nm                      1550nm

## Kit Contents

- Power Meter:** WaveTester
- Light Source:** WaveSource 850/1300/VFL
- Accessories:** OWL Reporter software  
Product manuals  
Download cable  
9-volt batteries  
NIST certificate  
Carrying case  
Protective rubber boots



MADE 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.



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



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## Specifications

### WaveTester Optical Power Meter

<b>Detector Type</b>	InGaAs
<b>NIST Traceable Wavelengths</b>	850 nm, 1300nm, 1310nm, 1550nm
<b>Measurement Range</b>	+5 to -60 dBm
<b>Accuracy</b>	±0.15 dB
<b>Resolution</b>	0.01 dB
<b>Connector Type</b>	2.5mm Universal
<b>Data Storage Points</b>	up to 200
<b>Download Data Points</b>	OWL Reporter Software
<b>Power Units Displayed</b>	dBm, dB, µW
<b>Battery Life</b>	250 hrs. (9v alkaline)
<b>Battery Capacity Display</b>	Yes
<b>Backlight</b>	Yes
<b>NIST Traceable</b>	Yes
<b>Auto-shutdown</b>	Yes
<b>Operating Temperature</b>	-10 to 55 C
<b>Storage Temperature</b>	-30 to 70 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.

### WaveSource 850/1300/VFL Multimode Light Source

<b>Launch Method</b>	LED
<b>Connector</b>	ST or SC
<b>Center Wavelength (850 nm)</b>	850 +30/-10 nm
<b>Center Wavelength (1300 nm)</b>	1300 ±50 nm
<b>Spectral Width (FWHM; 850 nm)</b>	50 nm
<b>Spectral Width (FWHM; 1300 nm)</b>	180 nm
<b>Output Power</b>	-20.0 dBm
<b>Initial Accuracy</b>	0.1 dB
<b>Fiber Type</b>	multimode
<b>Battery Capacity Display</b>	Yes
<b>Operating Temperature</b>	-20 to +70° C
<b>Storage Temperature</b>	-40 to +85° C
<b>Width</b>	2.75"
<b>Height</b>	4.94"
<b>Depth</b>	1.28"
<b>Weight</b>	154g

### Visual Fault Locator Specifications

<b>Launch Method</b>	Laser
<b>Center Wavelength</b>	650 nm
<b>Output Power</b>	-2.0 dBm
<b>Fiber Type</b>	multimode

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