

# WaveTester / WaveSource FTTH Test Kit

SKU: KIT-WT-WSFTTHxx (see connector options below)

FTTH Optical Loss 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 FTTH Test Kit** contains the tools necessary for measuring optical loss in fiber optic networks using the ITU G.983.3, the standard used for Fiber To The Home (FTTH) 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 FTTH fiber optic light source** contains the three wavelengths (1310, 1490, and 1550 nm) required by the ITU G.983.3 FTTH standard in a single unit, designed for accurate testing and certification of FTTH networks. Its outputs are temperature-stabilized for accurate measurements.

The **WaveSource FTTH** has a built-in auto-wavelength switching protocol designed to synchronize the wavelength of the **WaveTester** with the current output wavelength.

Three connector options are available (ST, SC, and FC).



## Features

Optical loss and certification of FTTH fiber links at 1310, 1490, and 1550nm

Auto-wavelength recognition and automatic data storage reduce testing time and human error

Data storage for up to 200 data points

Built-in FTTH loss parameters for on-screen PASS/FAIL readings

USB 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

## Additional 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		

Users may also define their own custom standards

## Additional Power Meter Calibrated Wavelengths:

850nm                      1300nm

## Kit Contents

<b>Power Meter:</b>	WaveTester
<b>Light Source:</b>	WaveSource FTTH
<b>Accessories:</b>	OWL Reporter software
	Product manuals
	Download cable
	9-volt batteries
	NIST certificate
	Carrying case
	Protective rubber boots
	Carrying Straps



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, 1300, 1310, 1490, 1550 nm
<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 FTTH 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 (1490nm)</b>	1490 ±10nm
<b>Center Wavelength (1550nm)</b>	1550 ±30nm
<b>Spectral Width (FWHM; 1310nm)</b>	2nm
<b>Spectral Width (FWHM; 1490nm)</b>	2nm
<b>Spectral Width (FWHM; 1550nm)</b>	2nm
<b>Output Power (all wavelengths)</b>	-10.0 dBm
<b>Initial Accuracy</b>	0.1 dB
<b>Output Modes</b>	Continuous Wave Modulated
<b>Battery Life</b>	up to 30 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.

