

# OWL FTTH Test Kit

FTTH 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 **OWL FTTH Test Kit** contains the tools necessary for testing FTTH (Fiber To The Home) networks.

The **WaveTester FTTH optical power meter** is multimode and singlemode ready, and can store reference values for all wavelengths used for optical loss measurements. Calibrated wavelengths include 1310, 1490, and 1550nm, the wavelengths specified by the ITU G.983.3 standard for FTTH applications. Up to 100 fiber runs may be stored, and serially downloaded to a PC for report generation using our OWL Reporter software.

The **WaveSource FTTH** is a singlemode light source containing temperature-stabilized outputs for accurate measurements at 1310, 1490, and 1550nm. Two connector options are available (ST or SC).



## Features

Testing of FTTH links at 1310, 1490, and 1550 nm

Auto-test functions store references and data points automatically

Data storage for up to 100 data points

RS-232 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:

ITU G.983.3	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	User-definable

## Additional Power Meter Calibrated Wavelengths:

850 nm                      1300 nm

## Kit Contents

<b>Power Meter:</b>	WaveTester FTTH
<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



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.



Carrying cases and patch cables are available for an additional charge. Call 262-473-0643 for more information.



## Specifications

### WaveTester FTTH Optical Power Meter

<b>Detector Type</b>	InGaAs
<b>Calibrated 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 100
<b>Download Data Points</b>	OWL Reporter Software
<b>Power Units Displayed</b>	dBm, dB, µW
<b>Battery Life</b>	250 hrs. (9-volt 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 Laser Source

<b>Launch Method</b>	FP Laser
<b>Connector</b>	ST or SC
<b>Center Wavelength (1310 nm)</b>	1310 ±30 nm
<b>Center Wavelength (1490 nm)</b>	1490 ±30 nm
<b>Center Wavelength (1550 nm)</b>	1550 ±30 nm
<b>Spectral Width (FWHM; 1310 nm)</b>	2 nm
<b>Spectral Width (FWHM; 1490 nm)</b>	3 nm
<b>Spectral Width (FWHM; 1550 nm)</b>	2 nm
<b>Output Power (1310 nm)</b>	-10.0 dBm
<b>Output Power (1490 nm)</b>	+3.0 dBm
<b>Output Power (1550 nm)</b>	-10.0 dBm
<b>Initial Accuracy</b>	0.1 dB
<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

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

