WaveTester / WaveSource Quad 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 Quad Test Kit** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in multimode and 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 100 fiber runs may be stored, and serially downloaded to a PC for report generation using our OWL Reporter software.

The **WaveSource Quad** is a combined multimode / singlemode light source. Its quad-wavelength outputs (850 & 1300nm for multimode and 1310 & 1550 nm for singlemode) are temperature-stabilized for accurate measurements. Three connector options are available (ST, SC, or FC).

Features

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

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:

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

Kit Contents

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Power Meter:	WaveTester
Light Source:	WaveSource Quad
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.

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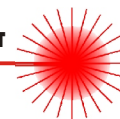
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Specifications

WaveTester Optical Power Meter	
Detector Type	Ge
NIST Traceable Wavelengths	850nm, 1300nm, 1310 nm, 1550 nm
Measurement Range	+5 to -60 dBm
Accuracy	±0.15 dB
Resolution	0.01 dB
Connector Type	2.5mm fixed Universal
Data Storage Points	up to 100
Download Data Points	OWL Reporter Software
Power Units Displayed	dBm, dB, µW
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.

WaveSource Quad Fiber Optic Light Source	
Launch Method (multimode)	LED
Launch Method (singlemode)	FP Laser
Connector	ST, SC, or FC
Center Wavelength (850nm)	850 +30/-10nm
Center Wavelength (1300nm)	1300 ±50 nm
Center Wavelength (1310nm)	1310 ±30nm
Center Wavelength (1550nm)	1550 ±30nm
Spectral Width (FWHM; 850 nm)	50nm
Spectral Width (FWHM; 1300nm)	180nm
Spectral Width (FWHM; 1310nm)	2nm
Spectral Width (FWHM; 1550nm)	2nm
Output Power (multimode)	-20.0 dBm
Output Power (singlemode)	-10.0 dBm
Initial Accuracy	0.1 dB
Ouput Modes	Continuous Wave Modulated
Battery Life	up to 30 hrs.
Battery Type	9V alkaline
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.