Fiber OWL 7X MM Test Kit

Part #: KF7XMX

Multimode Tier 1 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 **Fiber OWL 7X MM Test Kit** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in multimode networks, commonly referred to in the industry as Tier 1 certification.

The **Fiber OWL 7X (p/n: F7X)** optical power meter is multimode and singlemode ready, and contains a user-friendly Fiber Link Wizard with color diagrams to guide the setup process, calculate the link budget, and set the optical reference. Up to 10,000 fiber runs may be stored in internal memory, and can be downloaded to a PC for report generation with OWLView software.

Intelligent automated testing functions include automatic dual-wavelength storage and auto-wavelength recognition which reduce testing time and human error.

The universal detector port on the **F7X** comes with 2 adapter caps, one for 2.5mm connectors such as SC, ST, and FC, and the other for 1.25mm connectors such as LC. The length testing port is SC.

The **WaveSource Pro MM (p/n: WPMX)** fiber optic light source is designed for accurate testing and certification of multimode (850nm & 1300nm) networks. Its dual-wavelength outputs are temperature-stabilized for accurate measurements.

The **WPMX** has a built-in auto-wavelength switching protocol designed to synchronize the wavelength of the **F7X** with the current output wavelength.

The light source comes configured with SC connector ports.

Power Meter: Fiber OWL 7X (p/n: F7X)
Light Source: WaveSource Pro MM (p/n: WPMX)
Patch cables, adapters, and other related accessories not included.

Accessories:
Hard-shell carrying case
Protective rubber boots
USB download cables and battery chargers
USB flash drive containing OWLView software and product documentation
NIST certificate of calibration

Applications

- Full-featured Tier 1 fiber link certification
- Optical loss (attenuation) measurement
- Optical power measurement
- Continuity testing
- Patch cord verification
- Fiber optic link length measurement

Features

- Standards-based link certification for multimode fiber links
- Color LCD indicates PASS / FAIL status based on color
- Unlimited job configurations
- User-friendly Link Wizard with helpful color on-screen diagrams to help guide the setup process
- Auto-wavelength recognition and data storage reduces testing time and human error
- Up to 10,000 test readings can be stored in memory
- Integrated length tester for accurate end-to-end link length measurements, a critical factor for link budget calculation
- Prints official certification reports via OWLView certification software
- Re-chargeable Lithium Polymer battery
- NIST Traceable

Optical Wavelength Laboratories
MANUFACTURER OF QUALITY OPTICAL FIBER TEST EQUIPMENT

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FIBER OWL 7X OPTICAL POWER METER (P/N: F7X)

Key Specifications	
Detector Type	InGaAs
Calibrated Wavelengths[1]	**850**, 980, **1300**, **1310**, 1490, **1550**, 1625
Measurement Range	+5 to -70 dBm
Accuracy	±0.15 dB
Display Resolution	0.01 dB
Battery Life	Up to 50 hours (Lithium Polymer)
Detector Connector Type	2.5mm/1.25mm universal
Data Storage	Up to 10000 data points
Displayed Measurement Units	dBm, dB, mW, µW, nW
Modes of Operation	CERT, LOSS, OPM
Length Test Range / Accuracy	up to 25 km / ±2.5 m
Length Tester Connector Type	SC
Display Type	Hi-resolution Color LCD
Auto-shutdown	Yes
Operating Temperature	-10 to 55° C
Storage Temperature	-30 to 70° C
Dimensions	2.9 x 4.49 x 1.3 in. (72.9 x 112.3 x 31.8 mm)
Weight	12 oz. (373g)

1: Bold wavelengths are NIST Traceable

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

WAVESOURCE PRO MM LIGHT SOURCE (P/N: WPMX)

Key Specifications	
Output Type	Multimode
Launch Method	LED
Center Wavelength	850 nm: 850 ±30 nm 1300 nm: ± 50 nm
Spectral Width	850 nm: 50 nm 1300 nm: 180 nm
Output Power	-20 dBm
Output Modes	CW / Modulated
Initial Accuracy	± 0.1 dB
Battery Life	Up to 150 hours (re-chargeable Lithium Polymer)
Operating Temp.	0 to 55° C
Storage Temp.	0 to 75° C
Dimensions	2.87 x 4.42 x 1.25 in. (72.9 x 112.3 x 31.8 mm)
Weight	10 oz. (284g)
Connector Type	SC

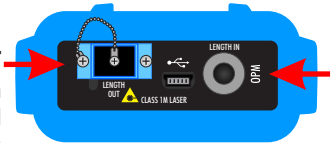
Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.

LED source (850/1300nm):
Class 1M

IEC 60825-1

Power Meter Ports

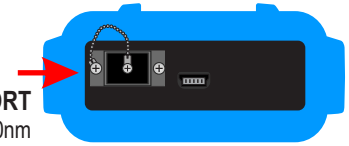
LENGTH TEST PORT
works with both multimode and singlemode fibers



UNIVERSAL DETECTOR PORT
Includes:
2.5mm adapter (SC,ST, FC)
1.25mm adapter (LC)

Light Source Ports

MULTIMODE SOURCE PORT
Wavelengths: 850/1300nm
Connector Type: SC



Supported Cabling Standards

TIA	568-C.3	568-3.D		
ISO	11801	14763-3		
Ethernet	1G	10G	40G	100G
FTTH	Class A	Class B	Class C	
USER DEFINED	Fixed budget		Calculated budget	

Factory located in the Heartland of America

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20 Years

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