Fiber OWL 7V MM Test Kit

Part #: KF7VMX

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 7V 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 <u>Tier 1 certification</u>.

The **Fiber OWL 7V (p/n: F7V)** 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 dualwavelength storage and auto-wavelength recognition which reduce testing time and human error.

The universal detector port on the **F7V** 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 and visual fault locator port are LC.

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 **F7V** with the current output wavelength.

The light source comes configured with SC connector ports.

BSD Wo Arrow

OWL

Power Meter: Fiber OWL 7V (p/n: F7V) Light Source: WaveSource Pro MM (p/n: WPMX) Patch cables, adapters, and other related accessories not included.

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



Factory located in the Heartland of America

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

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



Optical Wavelength Laboratories (OWL) N9623 Old Hwy 12 • Whitewater, WI 53190 Phone (262) 473-0643 • Fax: (262) 473-8737 http://OWL-inc.com

Multimode Tier 1 Certification Test Kit

-1.02^{dB}

0.52^{dB}

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FIBER OWL 7V OPTICAL POWER METER (P/N: F7V)

| 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 10,000 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 | LC | | | | |
| 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) | | | | |
| Visual Fault Locator Specifications | | | | | |
| Output Wavelength: | ~650nm | | | | |
| Output Power: | 0 dBm (1mW) | | | | |
| Operating Modes: | CW/Flash | | | | |
| Connector Type: | LC | | | | |

WAVESOURCE PRO MM LIGHT SOURCE (P/N: WPMX) **Key Specifications** Output Type Multimode LED Launch Method 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 0 to 75° C Storage Temp. 2.87 x 4.42 x 1.25 in. (72.9 x 112.3 x 31.8 mm) Dimensions 10 oz. (284g) Weight Connector Type SC Conforms to the Harmonized European Standards EN LED source (850/1300nm): 61326-1 and EN 61010-1. Class 1M IEC 60825-1 **Light Source Ports Å** ⊕ MULTIMODE SOURCE PORT Wavelengths: 850/1300nm Connector Type: SC

1: Bold wavelengths are NIST Traceable

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

Power Meter Ports

VISUAL FAULT LOCATOR PORT red laser for visual fault location and visual fiber identification (LC connector)



UNIVERSAL DETECTOR PORT

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

LENGTH TEST PORT

allows end-to-end length measurement for both multimode and singlemode fibers (LC connector)

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 | |



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N.I.S.T. TRACEABLE

Multimode Tier 1 Certification Test Kit