Fiber OWL 7V SM Test Kit

Part #: KF7VSX

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 SM Test Kit** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in singlemode 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 are LC.

The **WaveSource Pro SM/VFL (p/n: WPSX)** fiber optic light source is designed for accurate testing and certification of singlemode (1310nm & 1550nm) networks. Its dual-wavelength outputs are temperature-stabilized for accurate measurements.

The **WPSV** 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.

10-Gigabit Ethernet Ready 1310nm 13 10 -1.02^{dB} PASS by 1.18dB 1550m .52^{dB} O. CW MOD 1.68dF ASS bu OŴL WOWL-INC.CO 0 PORT < WaveSource Pro ത്ര $\overline{\mathbf{V}}$ Ontical Source

Power Meter: Fiber OWL 7V (p/n: F7V) Light Source:WaveSource Pro SM (p/n: WPSX) 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 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

Accessories:

- Standards-based link certification for singlemode 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
- NISTTraceable



Optical Wavelength Laboratories



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

Singlemode Tier 1 Certification Test Kit

MANUFACTURER OF QUALITY OPTICAL FIBER TEST EQUIPMENT

Fiber OWL 7V SM Test Kit

Part #: KF7VSX

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 Lo	cator Specifications					
Output Wavelength:	~650nm					
Output Power:	0 dBm (1mW)					
Operating Modes:	CW/Flash					
Connector Type:	LC					

Singlemode Tier 1 Certification Test Kit

WAVESOURCE PRO SM LIGHT SOURCE (P/N: WPSX)

Key Specifications						
Output Type	Singlemode					
Launch Method	FP Laser					
Center Wavelength	1310 nm: 1310 ± 20 nm					
	1550 nm: 1550 ± 30 nm					
Spectral Width	1310nm: 2 nm					
	1550nm: 2 nm					
Output Power	-10 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 61326-1 and EN 61010-1.	European Standards EN Laser source (1310/1550nm): Class 1 Laser Output					

Light Source Ports



IEC 60825

SINGLEMODE SOURCE PORT Wavelengths: 1310/1550nm Connector Type: SC

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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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