Fiber OWL 7V Quad Test Kit

Part #: KF7VMS

Multimode & Singlemode 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 7V Quad Test Kit** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in singlemode and 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 dual-wavelength 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 integrated VFL port and length testing ports are LC.

The **WaveSource Pro Quad (p/n: WPMS)** fiber optic light source is designed for accurate testing and certification of multimode (850nm & 1300nm) and singlemode (1310nm & 1550nm) networks. Its dual-wavelength outputs are temperature-stabilized for accurate measurements.

The **WPMS** 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.



Power Meter: Fiber OWL 7V (p/n: F7V)
Light Source: WaveSource Pro Quad (p/n: WPMS)
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
- Visual Fault Location



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Features

- Standards-based link certification for multimode and 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









Part #: KF7VMS

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

TIBER OWE TO OTHORE TOWER METER (TIME TTV)			
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		
1. Rold wavelengths are NIST Traceable			

^{1:} Bold wavelengths are NIST Traceable

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

Power Meter Ports



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)

WAVESOURCE PRO QUAD LIGHT SOURCE (P/N: WPMS)

Key Specifications			
Output Type	Multimode	Singlemode	
Launch Method	LED	FP Laser	
Center Wavelength	850 nm: 850 ±30 nm	1310 nm: 1310 ± 20 nm	
	1300 nm: ± 50 nm	1550 nm: 1550 ± 30 nm	
Spectral Width	850 nm: 50 nm	1310nm: 2 nm	
	1300 nm: 180 nm	1550nm: 2 nm	
Output Power	-20 dBm	-10 dBm	
Output Modes	CW / Modulated	CW / Modulated	
Initial Accuracy	± 0.1 dB	± 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.

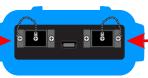


LED source (850/1300nm): Class 1M Laser source (1310/1550nm): Class 1M

Light Source Ports

MULTIMODE SOURCE PORT

Wavelengths: 850/1300nm Connector Type: SC



SINGLEMODE SOURCE PORT

Wavelengths: 1310/1550nm 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









