

# Fiber OWL 7V 1310 Test Kit

Part #: KF7VL3X

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 1310 Test Kit** contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in singlemode networks at 1310nm, commonly referred to in the industry as **Tier 1 certification**.

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.

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 VFL port are LC.

The **Laser OWL Pro 1310 (p/n:LP3X)** fiber optic light source is designed for accurate testing and certification of singlemode networks at 1310nm. The light source output is temperature-stabilized for accurate measurements.

The **LP3X** comes configured with a SC connector port.



Factory located in the  
Heartland of America



**Power Meter:** Fiber OWL 7V (p/n: F7V)  
**Light Source:** Laser OWL Pro 1310 (p/n: LP3X)  
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

## Features

- Standards-based link certification for singlemode fiber links at 1310nm
- 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
- 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
- Integrated visual fault locator for easy troubleshooting
- 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)  
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## FIBER OWL 7V OPTICAL POWER METER (P/N: F7V)

Key Specifications	
Detector Type	InGaAs
Calibrated Wavelengths <sup>1</sup>	850, 980, <b>1300, 1310</b> , 1490, <b>1550</b> , 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	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: 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)

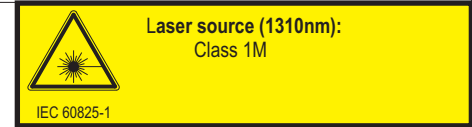
**UNIVERSAL DETECTOR PORT**  
Includes:  
2.5mm adapter (SC,ST, FC)  
1.25mm adapter (LC)

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

## LASER OWL PRO 1310 LIGHT SOURCE (P/N: LP3X)

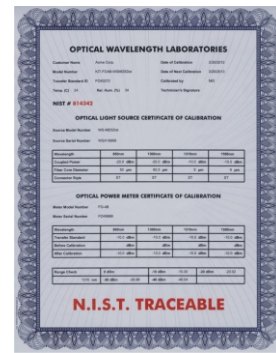
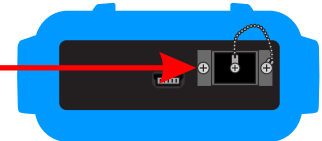
Key Specifications	
Output Type	Singlemode
Launch Method	FP Laser
Center Wavelength	1310 nm: 1310 ± 20 nm
Spectral Width	1310nm: 2 nm
Output Power	-10 dBm
Output Modes	CW / Modulated
Initial Accuracy	± 0.1 dB
Battery Life	Up to 150 hours (re-chargeable Lithium Polymer)
Operating Temp.	0 to 55° C
Storage 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 European Standards EN 61326-1 and EN 61010-1.



## Light Source Ports

LASER OWL PRO 1310 (P/N: LP3X)  
Wavelength: 1310nm  
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



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