

Optical Wavelength Laboratories Presents

New!

FIBER OWL 7+

TIER 2 FIBER OPTIC LINK CERTIFIER



- Compact size
- Color LCD display
- Breakthrough pricing
- Encircled Flux compliant
- Full-featured OTDR built-in
- Multiple versatile test modes
- Comprehensive OWLView Tri-report

Fiber OWL 7+ Series Test Kits

Fiber Optic Link Certifier

- **Win more bids with TRI-reports!**
- **Easy to read color LCD**
- **Color-coded PASS/FAIL standards-based test results**
- **Full-featured OTDR built in!**
- **Tier 1 and Tier 2 Certification for both multimode and singlemode**
- **User-friendly diagrams guide users through the testing process!**
- **Factory located in the heartland of the US!**

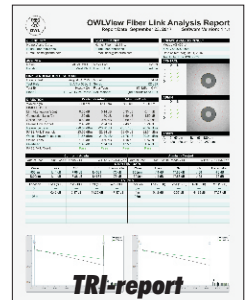


Win more bids! Clients are increasingly asking for OTDR and endface analysis in addition to certification reports. With OWLView software, technicians can provide clients with all three of these results on one single TRI-report!

Encircled Flux Compliant

10-Gig Ready

Encircled Flux compliant. Encircled Flux (EF) compliance is the latest requirement for testing multimode networks designed for transmission of 10 Gigabits and beyond. When used with EF mode controller cables, Fiber OWL 7+ certifiers ensure high-speed multimode networks are compliant to standards-based EF requirements.



User-friendly setup and test procedures. Helpful diagrams on the screen prompt the user to connect the tester to the link as shown, and text-based help screens are available in case users have questions in the field.

Affordability. Fiber OWL 7+ certifiers are a fraction of the cost of bulky over-priced certifiers, saving cost-conscious technicians and installers thousands of dollars that could be better used elsewhere.

Small, compact size. At nearly a third of the size and weight as compared to much bulkier ultra-expensive certifiers on the market, Fiber OWL 7+ certifiers are truly hand-held pocket-sized devices that can be operated in one hand!

NIST TRACEABLE

NIST Traceable. Like all OWL power meters and light sources, Fiber OWL 7+ certifiers are NIST-traceable, ensuring customers of reliable test results.



Optical Wavelength Laboratories
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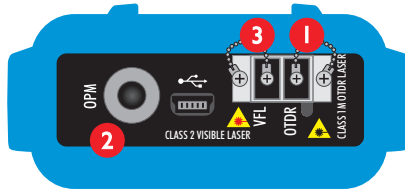


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OWL - The WISE choice in fiber test!

SPECIFICATIONS

Fiber OWL 7+ Power Meter



GENERAL

Display Type	2.8" Color LCD
Battery Type	Lithium Polymer
Battery Life	up to 50 hours
Auto-shutdown	Yes
Operating Temperature	-10 to 55° C
Storage Temperature	-30 to 70° C
Dimensions	2.87" x 4.42" x 1.25"
Weight	10 ounces (284 g)

1 OPTICAL TIME DOMAIN REFLECTOMETER (OTDR)

Fiber Type:	Multimode		Singlemode	
Output Wavelength:	850 nm	1300 nm	1310 nm	1550 nm
Dynamic Range (SNR=1) ¹ :	27 dB	29 dB	28 dB	27 dB
Distance Range ⁴ :	12 miles (20 kilometers)		80 miles (128 kilometers)	
Event Dead Zone ² :	2 meters (typical)			
Attenuation Dead Zone ³ :	5 meters (typical)			
Maximum Data Points:	64000			
Data Point Spacing:	1 meter		< 64 km: 1 meter / > 64 km: 2 meters	
Pulse Width:	1, 2, 5, 10, 20, 50, 100 meters		1, 2, 5, 10, 20, 50, 100, 200, 500, 1k meters	
Index of Refraction:	1.4000 to 1.6000			
Distance Accuracy:	Up to 64km: 1 + (distance in meters/10000) / Over 64km: 2 + (distance in meters/10000)			
Number of Stored Traces:	Maximum trace distance: up to 200 / Minimum trace distance: 3000+			

1: Using maximum pulse width

2: Width measured 1.5dB down on each side of a reflective event using 1 meter pulse width

3: Distance from event beginning to within 0.5dB where backscatter resumes using 1 meter pulse width

4: Out to furthest reflective event

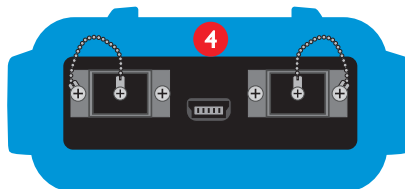
2 OPTICAL POWER METER (OPM)

Detector Type	InGaAs
Wavelengths	850, 980, 1300, 1310, 1490, 1550, 1625 nm
Measurement Range	+5 to -70 dBm
Accuracy (Uncertainty)	±0.15 dB
Display Resolution	0.01 dB
Measurement Units	dBm, dB
Connector Type	2.5mm/1.25mm Universal
Data Storage Points	<10,000
Download Port Connection	USB
Software	OWLView
Modes of Operation	FULL, CERT, LOSS, OPM

3 VISUAL FAULT LOCATOR

VFL Output	650 nm Laser
VFL Output Power	1 mW
VFL Operating Modes	CW, Modulated
Connector	LC

WaveSource Pro Light Source



GENERAL

Display Type	2.8" Color LCD
Battery Type	Lithium Polymer
Battery Life	up to 50 hours
Auto-shutdown	Yes
Operating Temperature	-10 to 55° C
Storage Temperature	-30 to 70° C
Dimensions	2.87" x 4.42" x 1.25"
Weight	10 ounces (284 g)

4 FIBER OPTIC LIGHT SOURCE

Fiber Type:	Multimode		Singlemode	
Source Type:	LED		Laser	
Calibrated Wavelengths	850 nm	1300 nm	1310 nm	1550 nm
Output Power (CW)	-20 dBm		-10 dBm	
Accuracy	±0.10 dB @ 25°C		±0.10 dB @ 25°C	
Light Source Drift (1hr.)	±0.05 dB	±0.05 dB	±0.05 dB	±0.04 dB
Spectral Width (FWHM)	50nm	180nm	2nm	3nm
Modulation Frequencies	300 Hz / 600 Hz / 1 kHz / 2 kHz			



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WIN MORE BIDS FOR YOUR COMPANY!

OWLView Fiber Link Analysis Report
Report Date: September 23, 2017 Software Version: 1.1.1

CLIENT INFO
Name: Acme Corp.
Phone: 555-555-5555
E-mail: acme@acme.com

INSTALLER INFO
Name: Fiber Install Inc.
Phone: 555-555-5555
E-mail: fiber@installinc.com

ENFACE ANALYSIS RESULT
Model: VS-400-U
S/N: VS400-U-0001
Date of Test: August 31, 2016
Test Rule: IEC-61300-3-35

JOB INFO
Name: ACME WEST Meter End: Control
Location: West Plant Injector End: Admin

LINK CERTIFICATION TEST RESULT
Date of Test: August 31, 2016 Model: F7-PM
Test Rule: EIA/TIA 568C.3 Serial: 120335
Test By: Hootsy Owl Fiber Type: 50/125um OM4
Fiber ID: F1-C2-R3-P4-Port5 Ref. Method: 1-jumper Encircled Flux

DIRECTION	Control → Admin	Admin → Control
Wavelength	850 nm 1300 nm	850 nm 1300 nm
LINK BUDGET		
Link Attenuation (96m)	0.33 dB 0.14 dB	0.33 dB 0.14 dB
Connection Loss (2)	1.50 dB 1.50 dB	1.50 dB 1.50 dB
Splice Loss (2)	0.60 dB 0.60 dB	0.60 dB 0.60 dB
Overall Link Budget	2.43 dB 2.24 dB	2.43 dB 2.24 dB
Reference Level	-20.57 dBm -20.70 dBm	-20.57 dBm -20.07 dBm
PASS/FAIL Threshold	-23.00 dBm -22.94 dBm	-23.00 dBm -22.31 dBm
Optical Power Measurement	-21.57 dBm -21.20 dBm	-21.76 dBm -20.94 dBm
Optical Loss	1.00 dB 0.50 dB	1.18 dB 0.87 dB
Overhead	1.43 dB 1.74 dB	1.25 dB 1.37 dB
PASS/FAIL Result	Pass Pass	Pass Pass

OTDR TEST DATA

Wave	Loss	ORL	IORL	Backscatter
850nm	1.14 dB	47.88 dB	1.4681	-76 dB
1300nm	1.14 dB	47.88 dB	1.4681	-76 dB

EVENTS

Location	Loss (850)	Loss (1300)	Ref (850)	Ref (1300)
0m	0.42 dB	0.37 dB	-44.35 dB	-47.37 dB
4m	---	---	---	---
95m	---	---	---	---

Tri-report. Sooner or later, technicians will be required to provide their clients with comprehensive certification reports that include link certification results, OTDR traces and events, and endface analysis.

OWLView software gathers together all three of these critical data and formats them onto one single-page “Tri-report”.

Link certification provides clients with a PASS/FAIL test result, ensuring that fiber links are installed and tested according to popular industry standards, including TIA-568 and various levels of Ethernet.

When used with a corresponding light source, Fiber OWL 7 certifiers allow users to certify multimode and/or singlemode optical fiber links.

Many clients are also requesting **OTDR traces** for the purpose of “link characterization”; i.e. a visual “roadmap” of the fiber link. OTDR traces include a graphical representation of the fiber link that shows the different “events” in the fiber link including patch panels, and event tables show the relative loss of individual events.

OWLView software allows users to import OTDR traces taken with OWLTrek 2 OTDRs, and appends the traces to the link certification report.

Clients are also interested in seeing the quality of their fiber endfaces at the time of testing. **Endface analysis** digitally inspects a fiber endface image for scratches and defects that may adversely affect data transmission.

OWLView software includes PASS/FAIL endface analysis based on the popular IEC 61300-3-35 endface inspection standard, and can analyze JPG endface images taken with any fiber videoscope.

OWLView TRI-REPORT CERTIFICATION • OTDR • ENDFACE

- **Win more bids for your company**
- **Required for cabling system warranties**
- **Superior to qualification test results**



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