

Optical Wavelength Laboratories Presents

New!

FIBER OWL 7+

TIER 2 FIBER OPTIC LINK CERTIFIER

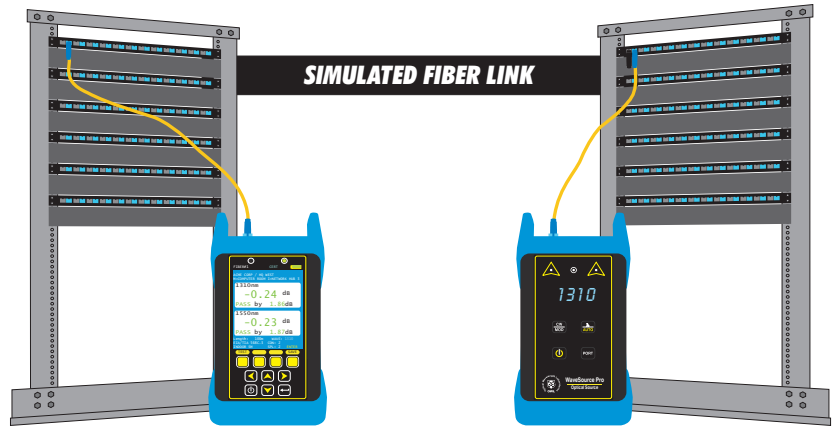


- **Compact size**
- **Color LCD display**
- **Breakthrough pricing**
- **Encircled Flux compliant**
- **Full-featured OTDR built-in**
- **Multiple versatile test modes**
- **Comprehensive OWLView Tri-report**

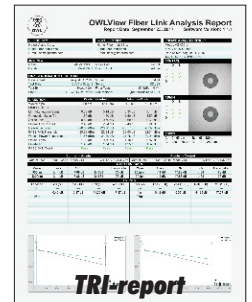
Fiber OWL 7+ Series Test Kits

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

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.

10-Gig Ready

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.



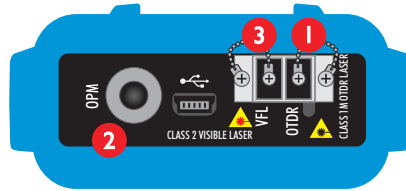
Optical Wavelength Laboratories
Phone: 262-473-0643
Internet: OWL-INC.COM

Factory located in the heartland of the US!

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 ² :	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

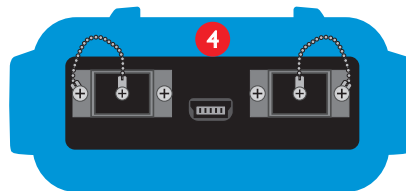
2 OPTICAL POWER METER (OPM)

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	
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	



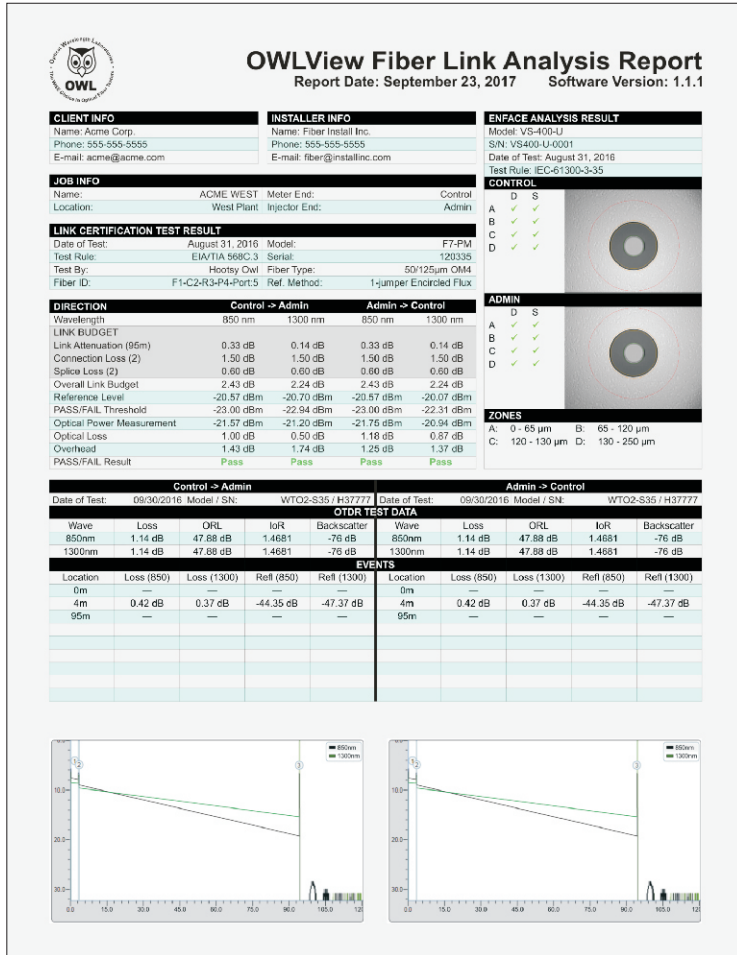
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WIN MORE BIDS FOR YOUR COMPANY!



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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