Fiber OWL 7+ Multimode Certifier

Part #: F7+M

Applications

- Full-featured Tier 2 fiber link certification (Loss + OTDR) *
- Full-featured Tier 1 fiber link certification (Loss) *
- OTDR link characterization
- Optical fault location
- Visual fault location
- Visual fiber identification
- Fiber optic link length measurement
- Optical loss (attenuation) measurement *
- Optical power measurement

Features

- Multimode ready
- Full-featured built-in OTDR
- Visual fault location / visual fiber identification
- Color-coded PASS / FAIL status *
- Unlimited job configurations *
- User-friendly Link Wizard with helpful color on-screen diagrams to help guide the setup process *
- Context-sensitive help
- Auto-wavelength recognition and data storage reduces testing time and human error *
- Up to 10,000 loss readings can be stored in memory *
- Prints official certification reports via OWLView certification software, including comprehensive Tri-Reports *
- High-capacity re-chargeable Lithium Polymer battery
- NIST Traceable
- Power meter adapters for 2.5mm (SC, ST, FC) and 1.25mm (LC) ferrule connectors
- Factory located in Heartland of America
- 2-year warranty

Includes:

Meter (multimode):   Fiber OWL 7+ Multimode Tier 2 Certifier (p/n: F7+M)

* WaveSource Pro Multimode light source required for loss measurement and link certification.
Patch cables, adapters, and other related accessories not included.

Accessories: Hard-shell carrying case
Protective rubber boot
1.25mm in-adapter connector cleaners
2.5mm / 1.25mm universal detector adapter caps
USB download cables and battery chargers
USB flash drive containing software and manual
NIST certificate of calibration

**Factory located in the
Heartland of America**

Optical Wavelength Laboratories

MANUFACTURER OF QUALITY OPTICAL FIBER TEST EQUIPMENT

20 Years

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OTDR Specifications		
Fiber Type:	Multimode	
Output Wavelength:	850nm	1300nm
Dynamic Range (SNR=1)[1]:	27 dB	29 dB
Data Point Spacing (m):	1	
Pulse Width (m):	1,2,5,10,20,50,100,200	
Distance Accuracy (m):	1 + (distance in meters/10000)	
Distance Range (km)[4]:	20	
Number of Stored Traces:	Minimum Trace Distance: 3000+ / Maximum Trace Distance: up to 400	
ORL Measurement:	up to 76dB	
Event Dead Zone(m):[2]	2	
Attenuation Dead Zone(m):[3]	5	
Index of Refraction:	1.4000 to 1.6000	
Maximum Data Points:	64000	

General Specifications	
Display:	2.8" Color LCD
Battery Type:	Lithium Polymer
Battery Life:	up to 20 hours
Dimensions:	2.87" x 4.42" x 1.25"
Weight:	10 oz. (284 g)
Visual Fault Locator Specifications	
Output Wavelength:	650nm
Output Power:	1 mW
Operating Modes:	CW / Flash

| Optical Power Meter Specifications	
Photodetector:	InGaAs
Fiber Type:	Multimode / Singlemode
Wavelengths:	850, 980, 1300, 1310 1490, 1550, 1625
Accuracy:	±0.15 dB
Resolution:	0.01 dB
Measurement Units:	dBm / dB
Measurement Range:	+5 to -70 dBm (typical; varies with wavelength)

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

UNIVERSAL DETECTOR PORT
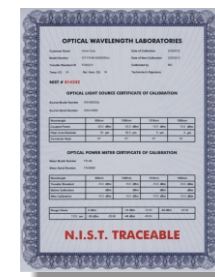Includes:
2.5mm adapter (SC,ST, FC)
1.25mm adapter (LC)
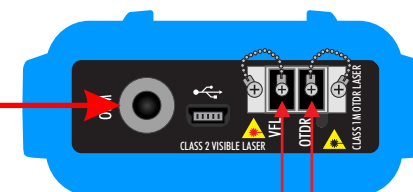
VISUAL FAULT LOCATOR
compatible with multimode and singlemode fibers (LC connector)

OTDR
multimode (LC connector)

NOTE: A WaveSource Pro multimode light source is required for optical loss measurement, fiber optic link certification, and report printing.

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Fiber Optic Light Sources

PART NUMBER	DESCRIPTION
WPMX	WaveSource Pro MM LED Source
WPMV	WaveSource Pro MM LED Source w/integrated VFL

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Accessories

Fiber Optic Inspection Microscopes

PART NUMBER	DESCRIPTION
VS-400-U	400x USB Video Microscope
FS400	400x Direct-view Field Microscope

Fiber Optic Cleaning Accessories

PART NUMBER	DESCRIPTION
FCC-2	Ferrule Connector Cleaner
FCC-2R	FCC-2 Replacement Cleaning Tape
OC-2	2.5mm In-adapter Ferrule Connector Cleaner
OC-1	1.25mm In-adapter Ferrule Connector Cleaner

Download Cables/Chargers

PART NUMBER	DESCRIPTION
USB-1	USB Download / Charger Cable
WS-USB	USB Wall Charger

Universal Adapter Caps

PART NUMBER	DESCRIPTION
U2.5-4	2.5mm Universal Adapter Cap (for SC, ST, FC)
U1.25-4	1.25mm Universal Adapter Cap (for LC)

OTDR Fiber Rings

PART NUMBER	DESCRIPTION
FR-SM-500-LCLC	500 meter singlemode OTDR fiber ring (LC/LC)
FR-SM-500-LCSC	500 meter singlemode OTDR fiber ring (LC/SC)
FR-M5-150-LCLC	150 meter $50/125\mu m$ multimode OTDR fiber ring (LC/LC)
FR-M5-150-LCSC	150 meter $50/125\mu m$ multimode OTDR fiber ring (LC/SC)
FR-M6-150-LCLC	150 meter $62.5/125\mu m$ multimode OTDR fiber ring (LC/LC)
FR-M6-150-LCSC	150 meter $62.5/125\mu m$ multimode OTDR fiber ring (LC/SC)

OTDR Dead Zone Boxes

PART NUMBER	DESCRIPTION
DZB-SM-1100	1100 meter singlemode OTDR dead zone box (SC)
DZB-M5-450	450 meter $50/125\mu m$ multimode OTDR dead zone box (SC)
DZB-M6-450	450 meter $62.5/125\mu m$ multimode OTDR dead zone box (SC)

Encircled Flux Mode Controller Cables

PART NUMBER	EF-(*core size*)-(*input port*)-(*output port*)
(core size)	**M5** = $50/125\mu m$ **M6** = $62.5/125\mu m$
(light source input port)	SC
(output port)	LC SC

Part #example: EF-**M5-SC-LC**

Encircled Flux Mode Extender Cords

PART NUMBER	EFXC-(*core size*)-(*input port*)-(*output port*)
(core size)	**M5** = $50/125\mu m$ **M6** = $62.5/125\mu m$
(input port)	LC SC (must match the output of the EF mode controller cable)
(output port)	LC SC (must match the link under test)

Part #example: EFXC-**M5-SC-LC**

* Note: when used with EF Mode Controllers, one of the connector options must match the output port of the EF mode controller, and the other must match the link under test.