Part #: F7+S

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

- Singlemode 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 (singlemode): Fiber OWL 7+ Singlemode Tier 2 Certifier (p/n: F7+S)

* WaveSource Pro Singlemode 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











Singlemode Tier 2 Certifier

Multimode / Singlemode

850, 980, 1300, 1310

1490, 1550, 1625

+5 to -70 dBm

(typical; varies with wavelength)

Optical Power Meter Specifications

InGaAs

 $0.15 \, dB$

0.01 dB

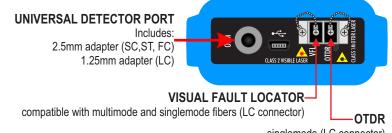
dBm / dB

Part #: F7+S

	OTDR Specifications		Gener	al Specifications
Fiber Type:	Singlemode		Display:	2.8" Color LCD
Output Wavelength:	1310nm	1550nm	Battery Type:	Lithium Polymer
Dynamic Range (SNR=1) ¹ :	28 dB	27 dB	Battery Life:	up to 20 hours
Data Point Spacing (m):	Up to 64 km: 1		Dimensions:	2.87" x 4.42" x 1.25"
Dulu Folili Sputilig (111):	Over 64 km: 2		Weight:	10 oz. (284 g)
Pulse Width (m):	1,2,5,10,20,50,100,200,500,1000		Visual Fault	Locator Specifications
Distance Accuracy (m):	Over 64km: 1 + (distance in meters/10000)		Output Wavelength:	650nm
Distulice Accordicy (III):	Over 64km: $2 + (distance in meters/10000)$		Output Power:	1 mW
Distance Range (km)⁴:	128		Operating Modes:	CW / Flash
Number of Stored Traces:	Minimum Trace Distance: $3000 + /$ Maximum	Trace Distance: 200		
ORL Measurement:	up to 76dB			
Event Dead Zone(m):2	2		UNIVE	ERSAL DETECTOR PO
Attenuation Dead Zone(m):3	5			Inclu 2.5mm adapter (SC,ST,
Index of Refraction:	1.4000 to 1.6000			1.25mm adapter
Maximum Data Points:	64000			'

- 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

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



Photodetector:

Fiber Type:

Accuracy:

Resolution:

Measurement Units:

Measurement Range:

Wavelengths:

singlemode (LC connector)













Fiber OWL 7+ Singlemode Certifier

Part #: F7+S

Fiber Optic Light Sources	
PART NUMBER	DESCRIPTION
WPSX	WaveSource Pro SM Laser Source
WPSV	WaveSource Pro SM Laser Source w/integrated VFL

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

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 Ada	pter 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 Rin	ngs
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 μ m multimode OTDR fiber ring (LC/LC)
FR-M5-150-LCSC	150 meter 50/125µm multimode OTDR fiber ring (LC/SC)
FR-M6-150-LCLC	150 meter 62.5/125 μ m multimode OTDR fiber ring (LC/LC)
FR-M6-150-LCSC	150 meter 62.5/125 μ 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 50/125µm multimode OTDR dead zone box (SC)
DZB-M6-450	450 meter 62.5/125µm multimode OTDR dead zone box (SC)

Encircled Flux Mode Controller Cables		
PART NUMBER	EF-(core size)-(input port)-(output port)	
(core size)	M5 = 50/125μm M6 = 62.5/125μm	
(light source input port)	SC	
(output port)	LC SC	
	Part #example: EF- M5-SC-LC	

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







