GREENLEE COMMUNICATIONS

FAST. ACCURATE. RELIABLE.

XL *fiberTOOLS*™ Series

PROFESSIONAL FIBER OPTIC INSTRUMENTS

Distribution in the UK & Ireland

Lambda

www.lambdaphoto.co.uk

XL *fiber*TOOLS™ Series

Instruments Designed for Fiber Optic Cable Testing.

The XL fiberTOOLS™ are designed for the professional to perform installation and maintenance measurements on fiber optic cabling networks. The instrument family consists of individual devices (optical power meters, 850/1300nm LED sources, 1310/1550nm Laser sources, Visual Fault Locator) and complete Insertion Loss Test Sets. The XL fiberTOOLS™ are designed to accurately measure optical power levels and link loss on multimode and singlemode cabling networks. These full feature general purpose fiber optic instruments are easy to operate and economically priced to outfit all technicians performing fiber optic installation and maintenance.

560XL

Fiber Optic Power Meter

- Easy to use - three buttons control all functions
- Long battery life
- Loss measurements in (dB); power measurements in (dBm)
- 0.01dB measurement resolution
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Greenlee for other available adapters.
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Calibration Wavelengths	850nm, 1300nm, 1310nm and 1550nm	
Power Range	+3 dBm to -60 dBm	
Accuracy	±0.25dB	
Linearity at:	+3dBm to -3dBm -3dBm to -50dBm -50dBm to -60dBm	±0.5dB ±0.1dB ±0.5dB
Resolution	0.01dB	
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	FC, SC or ST	

Environmental Specifications

Operating Temperature	-15° C to +55° C
Storage Temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

Three Buttons Control ALL Functions!

For Information on Products, Training and Repair Contact:
Tel: 800.642.2155 • 760.510.0558 • greenleecommunications.com

567XL Silicon Fiber Optic Power Meter

- Easy to use - three buttons control all functions
- Loss measurements in (dB); power measurements in (dBm)
- 0.01dB measurement resolution
- Rugged and splash-proof
- Economically priced
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Greenlee for other available adapters.
- Long battery life
- User selectable auto shut-off

Optical Specifications

Detector Type	3 x 3.5 mm Silicon	
Calibration Wavelengths	635nm, 780nm, and 850nm	
Power Range	+3 dBm to -60 dBm	
Accuracy	±0.25dB	
Linearity at:	+3dBm to -3dBm -3dBm to -50dBm -50dBm to -60dBm	±0.5db ±0.1db ±0.5db
Resolution	0.01dB	
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

568XL High Intensity Optic Power Meter

- Easy to use - three buttons control all functions
- Multi-Wavelength Storage: Store and recall reference power levels for faster, more efficient measurements!
- 0.01dB measurement resolution
- Loss measurements in (dB); power measurements in (dBm)
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Greenlee for other available adapters.
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Detector Type	2 mm indium-arsenide (InGaAs)	
Calibration Wavelengths	980nm, 1310nm, and 1550nm	
Power Range	+25 to -30dBm (1310nm and 1550nm); +25 to -27dBm measurement range at 980nm. To avoid thermal damage, limit exsposure high power (greater than +23dBm) to less than 30 minutes.; +25 to -27dBm (980nm only)	
Linearity at: **(1310nm and 1550nm)**	+25dBm to +22dBm +22dBm to +18dBm +18dBm to +10dBm +10dBm to -30dBm	±1.0dB ±0.5dB ±0.2dB ±0.1dB
Absolute Accuracy	±0.25dB at calibration conditions	
Wavelength Dependence	975 to 985nm 1270 to 1330nm 1500 to 1625nm	0.025dB/nm 0.0033dB/nm 0.0016dB/nm
Polarization Dependence	<0.1dB	
Resolution	±0.01dB	
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

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570XL 850/1300nm LED Source

- 850/1300nm wavelengths
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Fixed connector interface FC, SC or ST
- Long battery life - approx. 80 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	850nm	1300nm
Range (Typical)	820nm to 870nm	1270nm to 1345nm
Max. Spectral Width (FWHM)	60nm	150nm
Stability (1 hour)	±0.05dB	±0.05dB
Typical Power Output		
100/140um	-20dBm	-20dBm
62.5/125um	-20dBm	-20dBm
50/125um	-21dBm	-21dBm
Modular Frequency	270 kHz, 1 kHz and 2 kHz	270 kHz, 1 kHz and 2 kHz
Power Requirements	Two AA size 1.5V batteries (approx. 40 hours continuous operation)	Two AA size 1.5V batteries (approx. 40 hours continuous operation)
Connector Interface	FC, SC or ST	FC, SC or ST

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

580XL 1310/1550nm Laser Source

- 1310/1550nm wavelengths
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Fixed connector interface FC, SC or ST
- Long battery life - approx. 80 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	1310nm	1550nm
Range (Typical)	1280nm to 1340nm	1520nm to 1580nm
Max. Spectral Width (FWHM)	<5nm	<5nm
Stability (1 hour)	±0.05dB	±0.05dB
Typical Power (9/125)		
Minimum	-8dBm	-8dBm
Typical	-7dBm	-7dBm
Modular Frequency	270 kHz, 1 kHz and 2 kHz	270 kHz, 1 kHz and 2 kHz
Power Requirements	Two AA size 1.5V batteries (approx. 80 hours continuous operation)	Two AA size 1.5V batteries (approx. 80 hours continuous operation)
Connector Interface	FC, SC or ST	FC, SC or ST

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011 Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4
CDRH Laser Class	Class 1

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573XL

650nm LED Source for Large Core Plastic and Glass Fiber

- 650nm wavelength
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- ST connector interface
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	650nm
Range (Typical)	63v0nm to 670nm
Max. Spectral Width (FWHM)	<40nm
Stability (1 hour)	±0.05dB
Power Output into MM 200/300 SI Fiber	-15dBm ±0.5dB
Modular Frequencies	270 kHz, 1 kHz and 2 kHz ±0.5dB
Power Requirements	Two AA size 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	ST

Environmental Specifications

Operating Temperature	-15° C to +55° C
Storage Temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011, Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

577XL M90

850nm LED Source with M90 Launch Condition using 62.5/125 Fiber

- 850nm wavelength
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Universal connector interface
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	850nm
Range (Typical)	820nm to 880nm
Max. Spectral Width (FWHM)	<60nm
Stability (1 hour)	±0.05dB
Launch Profile	M90
Power Output into MM 62.5/125 GI fiber	-20dBm
Modular Frequencies	270 kHz, 1 kHz and 2 kHz ±5%
Power Requirements	Two AA size 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Universal connector interface, physical contact (UCI-PC)

Environmental Specifications

Operating Temperature	-15° C to +55° C
Storage Temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

577XL AS100

850nm LED Source with AS-100 Launch Condition using 100/140 Fiber

- 850nm wavelength
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Universal connector interface
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	850nm
Range (Typical)	820nm to 880nm
Max. Spectral Width (FWHM)	<60nm
Stability (1 hour)	±0.05dB
Launch Profile	AS100
Power Output into MM 100/140 GI fiber	-20dBm
Modular Frequencies	270 kHz, 1 kHz and 2 kHz ±5%
Power Requirements	Two AA size 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Universal connector interface, physical contact (UCI-PC)

Environmental Specifications

Operating Temperature	-15° C to +55° C
Storage Temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

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5670XL Multimode Fiber Optic Test Set

- Insertion loss test set for multimode fiber
- 850/1300nm loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy-to-use portable package
- Economically priced

5670-FC ***Includes***

560XL	Optical Power Meter
570XL-FC	850/1300nm LED Source w/FC Connector
T1020	FC/PC SOC Adapter
914B	Carrying Case

5670-SC ***Includes***

560XL	Optical Power Meter
570XL-SC	850/1300nm LED Source w/SC Connector
1062	SC/PC SOC Adapter
914B	Carrying Case

5670-ST ***Includes***

560XL	Optical Power Meter
570XL-ST	850/1300nm LED Source w/ST Connector
T1030	ST/PC SOC Adapter
914B	Carrying Case

5680XL Singlemode Fiber Optic Test Set

- Insertion loss test set for singlemode fiber
- 1310/1550nm loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy-to-use portable package
- Economically priced

5680-FC ***Includes***

560XL	Optical Power Meter
580XL-FC	1310/1550nm Laser Source w/FC Connector
T1020	FC/PC SOC Adapter
914B	Carrying Case

5680-SC ***Includes***

560XL	Optical Power Meter
580XL-SC	1310/1550nm Laser Source w/SC Connector
1062	SC/PC SOC Adapter
914B	Carrying Case

5680-ST ***Includes***

560XL	Optical Power Meter
580XL-ST	1310/1550nm Laser Source w/ST Connector
T1030	ST/PC SOC Adapter
914B	Carrying Case

5890XL Multimode and Singlemode Fiber Optic Test Set

- Insertion loss test set for multimode and singlemode fiber
- 850/1300nm Loss measurements
- 1310/1550nm Loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy-to-use portable package
- Economically priced

5890-FC ***Includes***

560XL	Optical Power Meter
570XL-FC	850/1300nm LED Source w/FC Connector
580XL-FC	1310/1550nm Laser Source w/FC Connector
T1020	FC/PC SOC Adapter
915B	Carrying Case

5890-SC ***Includes***

560XL	Optical Power Meter
570XL-SC	850/1300nm LED Source w/SC Connector
580XL-SC	1310/1550nm Laser Source w/SC Connector
1062	SC/PC SOC Adapter
915B	Carrying Case

5890-ST ***Includes***

560XL	Optical Power Meter
570XL-ST	850/1300nm LED Source w/ST Connector
580XL-ST	1310/1550nm Laser Source w/ST Connector
T1030	ST/PC SOC Adapter
915B	Carrying Case

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180XL Visual Fault Locator

- Continuous wave output mode for steady fault location
- Find breaks to 7km
- Blinking output mode increases viewing contrast
- Easy-to-use quick interface fits all 2.5mm connector interfaces (FC, SC, ST)
- 1.0mW output power
- Class 2 Operation
- Ergonomic rotary switch permits easy one-handed operation
- Rugged, compact and splash-proof aluminum design
- Two AA batteries provide 80 hours continuous operation
- 1.25mm adapter available for LC and MU connectors (UPC 03579)
- Nylon storage case included

Optical Specifications

Wavelength	650nm +/-10nm
Emitter Type	Fabry Perot
Output Power	0dBm
Laser Classification	Class 2
Range	7km
Modes of Operation	CW and 2Hz Modulation
Method of Display Operation	Red/Green LED
Fiber Type	Singlemode, Multimode
Connector Interface	2.5mm Universal, Optional 1.25mm adapter

Environmental Specifications

Battery	AA (2 included)
Battery Life	80 Hours with 3.9Wh Batteries
Weight	0.26lbs, (120g) (not including batteries)
Dimensions	7.08" x 0.91" Dia. (180 x 23mm Dia.)
Operating Temperature	-10°C to +45°C
Storage Temperature	-40°C to +70°C
Certifications	CE, CDRH

Snap On Connector (SOC) for Fiber Optic Power Meter

Snap On Connectors (SOC) are used on the 560XL Fiber Optic Power Meter. The Snap On Connectors configure the optical power meter for various optical connectors. Contact Greenlee for other available adapters.

FC

T1020

ST

T1030

SC

1062

Universal Connector Interface (UCI) for 577XL family

User will need to purchase a Universal Connector Interface (UCI) adapter for use of the instrument. Please specify the desired connector adapter type when ordering. Contact Greenlee for other available adapters.

FC

APC-108

SC

ASC-108

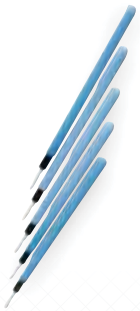
ST

AST-108

Connector Cleaning Tools

948 Connector Reel Cleaner

The Reel Cleaner is an all-in-one connector cleaning tool. A complete self-contained unit requiring no additional components to clean fiber optic connectors. Recommended for cleaning FC, SC and ST connectors. To clean a connector, the user opens the shutter by gripping the lever and then sliding the connector end face along the exposed cleaning surface while gripping the lever.



946 Adapter Cleaning Wands

Adapter wands are a convenient, economical and disposable way to clean and maintain fiber optic interfaces and bulkhead adapters. Incorporating the same lint-free material as the all-in-one Connector Reel Cleaner, cleaning wands are effective in removing contaminants from hard-to-reach connector end face ferrule alignment sleeves. Ten cleaning wands come in each package.

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FOR PRODUCT VIDEOS, DEMONSTRATIONS AND MORE VISIT:
http://bit.ly/GreenleeCommsYouTube

ORDERING INFORMATION

CAT NO.	UPC NO.	DESCRIPTION
180XL	03578	VISUAL FAULT LOCATOR
1.25MM-ADAPTER	03579	1.25MM ADAPTER FOR LC AND MU CONNECTORS
560XL	84485	FIBER OPTIC POWER METER
567XL	00025	FIBER OPTIC POWER METER SI, (SOC)
568XL	00026	FIBER OPTIC POWER METER, SOC-HP INGAAS
570XL-FC	84486	850/1300NM LED SOURCE W/FC INTERFACE
570XL-SC	84487	850/1300NM LED SOURCE W/SC INTERFACE
570XL-ST	84488	850/1300NM LED SOURCE W/ST INTERFACE
573XL	00023	650NM LED SOURCE W/ST INTERFACE
577XL AS100	00029	850NM LED SOURCE WITH AS100 LAUNCH
577XL M90	00027	850NM LED SOURCE WITH M90 LAUNCH
580XL-FC	84489	1310/1550NM LASER SOURCE W/FC INTERFACE
580XL-SC	84490	1310/1550NM LASER SOURCE W/SC INTERFACE
580XL-ST	84491	1310/1550NM LASER SOURCE W/ST INTERFACE
5670-FC	84492	MULTIMODE FIBER OPTIC TEST SET W/FC INTERFACE
5670-SC	84493	MULTIMODE FIBER OPTIC TEST SET W/SC INTERFACE
5670-ST	84494	MULTIMODE FIBER OPTIC TEST SET W/ST INTERFACE
5680-FC	84495	SINGLEMODE FIBER OPTIC TEST SET W/FC INTERFACE
5680-SC	84496	SINGLEMODE FIBER OPTIC TEST SET W/SC INTERFACE
5680-ST	84497	SINGLEMODE FIBER OPTIC TEST SET W/ST INTERFACE
5890-FC	84498	MULTIMODE AND SINGLEMODE FIBER OPTIC TEST SET W/FC INTERFACE
5890-SC	84499	MULTIMODE AND SINGLEMODE FIBER OPTIC TEST SET W/SC INTERFACE
5890-ST	84500	MULTIMODE AND SINGLEMODE FIBER OPTIC TEST SET W/ST INTERFACE
(A) APC-108	60572	FC/PC UCI ADAPTER
(A) AST-108	60573	ST/PC UCI ADAPTER
(A) ASC-108	60574	SC/PC UCI ADAPTER
(A) 1062	60575	SC/PC SOC ADAPTER
(A) T1020	60576	FC/PC SOC ADAPTER
(A) T1030	60577	ST/PC SOC ADAPTER
(A) 948	60692	CONNECTOR REEL CLEANER CLEANING SYSTEM
(A) 946	60571	2.5 MM CLEANING WANDS

(A) = ACCESSORY

Distribution in the UK & Ireland

Lambda

Characterisation, Measurement & Analysis

Lambda Photometrics Limited
Lambda House Batford Mill
Harpenden Herts AL5 5BZ
United Kingdom
E: info@lambdaphoto.co.uk
W: www.lambdaphoto.co.uk
T: +44 (0)1582 764334
F: +44 (0)1582 712084

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