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Data Sheet

August 13, 2026

EXFO

Exfo ELS-500 850/1300nm 1310/1550nm Optical Light Source

Key Features - Up to four wavelengths on two ports (850/1300 + 1310/1550) - Automatic wavelength recognition with matching meters - Tone generation 270 Hz, 1 kHz, 2 kHz - High singlemode output (typically ≥ 1 dBm on 23BL lasers) - Keypad/LCD backlight for low light work - Rechargeable battery operation with long Auto-mode life - Interchangeable connectors - Complements EPM-500 FiberBasix power meters

Technical Specifications Model: ELS-500 (typical ELS-500-12D-23BL quad) Manufacturer: EXFO Instrument Type: Handheld Optical Light Source MM central wavelength nm: 850 ± 25 and 1300 $\pm 50/-10$ (12D) SM central wavelength nm: 1310 ± 20 and 1550 ± 20 (23BL) Triple SM option nm: 1310 ± 20 / 1490 ± 10 / 1550 ± 20 (235BL) MM spectral width nm: 50 / 135 (12D) SM spectral width nm: ≤ 5 (laser models) MM output power dBm: ≥ -18 / ≥ -18 into 62.



MODEL

Exfo ELS-500

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ELS-500

LISTING

<https://aumictechlabs.com/products/els-500-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Exfo ELS-500 is a quad-wavelength optical light source engineered for loss and continuity verification across multimode and singlemode fiber networks, including FTTx and passive optical network (PON) deployments. Operating at 850 nm and 1300 nm for multimode fiber, and 1310 nm

and 1550 nm for singlemode applications, the unit delivers output power of ≥ -5 dBm (singlemode) and ≥ -24 dBm (multimode, 50/125 μm). Two ports accommodate all four wavelengths with automatic wavelength switching, eliminating offset nulling and reducing test error. The unit operates continuously with 0 minutes warm-up time and stable output within ± 0.10 dB typical across its range.

Technical Specifications

Wavelengths: 850 nm, 1300 nm (multimode); 1310 nm, 1550 nm (singlemode)

Output Power: ≥ -5 dBm (1310/1550 nm); ≥ -24 dBm multimode (50/125 μm)

Spectral Width: 850 nm (± 25 nm), 1300 nm (+50/-20 nm), 1310 nm (± 20 nm), 1550 nm (± 20 nm)

Output Power Stability: ± 0.10 dB (typical)

Modulation: CW, 270 Hz, 1 kHz, 2 kHz

Tone Generation: 270 Hz, 1 kHz, 2 kHz for fiber identification

Laser Classification: Class 1M or Class 3R, depending on configuration

Key Features

- Automatic wavelength switching for reduced operator intervention and error elimination
- Dual-port architecture supporting four wavelengths simultaneously
- Data storage capacity of 1000 items with USB PC transfer capability
- Keypad and LCD backlight for operation in low-light field environments
- Rechargeable battery operation with up to 70 hours typical battery life
- Compact dimensions: 189 mm $\times$ 78 mm $\times$ 37 mm; weight 0.4 kg
- Operating temperature range: -10 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$

Typical Applications

- FTTx network installation and commissioning at ITU-T G.983.3 recommended wavelengths (1310, 1490, 1550 nm)
- Passive optical network (PON) testing and troubleshooting
- Multimode and singlemode fiber loss and continuity verification
- Field maintenance and troubleshooting by technicians

Compatibility & Integration

The ELS-500 integrates directly with the Exfo EPM-500 Power Meter, enabling synchronized wavelength switching and automated measurement workflows. Powered via rechargeable batteries with AC adapter charging, the unit supports data export through USB connectivity for analysis and documentation.

Features & description

From manufacturer datasheet

Features

- Up to four wavelengths on two ports (850/1300 + 1310/1550)

ELS500 Characteristics / Specifications

PARAMETER	VALUE
Model	ELS-500 (typical ELS-500-12D-23BL quad)
Manufacturer	EXFO
Instrument Type	Handheld Optical Light Source
MM central wavelength nm	850 +/-25 and 1300 +50/-10 (12D)
SM central wavelength nm	1310 +/-20 and 1550 +/-20 (23BL)
Triple SM option nm	1310 +/-20 / 1490 +/-10 / 1550 +/-20 (235BL)
MM spectral width nm	50 / 135 (12D)
SM spectral width nm	<=5 (laser models)
MM output power dBm	>= -18 / >= -18 into 62.5/125 um (12D; some sheets >= -20)
SM output power 23BL dBm	>=1 / >=1
SM output 235BL dBm	>=1 / >= -4.5 / >= -3 typical sheet values
VCSEL option 01 VCL	850 +/-20 nm; spectral width <=1 nm; output >= -3 dBm into 50/125 um
Automatic wavelength recognition	yes
Tone generation Hz	270; 1000; 2000
Battery life Auto mode hours	50 typical (60 for 01-VCL)
Warranty years	1
Calibration interval years	1
Operating temperature	-10 C to 50 C
Companion meter	EPM-500 series
Ports on 12D 23BL	2 (MM LED port + SM laser port)
Fiber MM 12D	62.5/125 um
Fiber SM 23BL	9/125 um
Modulation with tones	yes
Auto wavelength switching	yes
Series	FiberBasix 500

PARAMETER	VALUE
Alias	ELS500 Notes Specs from EXFO FiberBasix 500 / ELS-500 OEM sheets. Exact faceplate (12D, 23BL, 235BL, 12D-23BL) sets wavelengths and powers. Confirm ports and connectors before quoting.
Attenuation	testing with EPM-500 power meters. Configurations include multimode LED 850/1300 nm and singlemode laser 1310/1550 nm (and 1490 nm variants), with automatic wavelength recognition/switching and 270 Hz / 1 kHz / 2 kHz tone generation. The common quad

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	10 C to 50 C
Operating Temperature	10 C to 50 C
Companion meter	EPM-500 series
Ports on 12D 23BL	2 (MM LED port + SM laser port)
Fiber MM 12D	62.5/125 um
Fiber SM 23BL	9/125 um
Modulation with tones	yes
Auto wavelength switching	yes
Series	FiberBasix 500
Alias	ELS500 Notes Specs from EXFO FiberBasix 500 / ELS-500 OEM sheets. Exact faceplate (12D, 23BL, 235BL, 12D-23BL) sets wavelengths and powers. Confirm ports and connectors before quoting.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	ELS-500 (typical ELS-500-12D-23BL quad)
Manufacturer	EXFO
Instrument Type	Handheld Optical Light Source
Specifications	
PARAMETER	VALUE
MM central wavelength nm	850 +/-25 and 1300 +50/-10 (12D)
SM central wavelength nm	1310 +/-20 and 1550 +/-20 (23BL)
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Specifications	
PARAMETER	VALUE
MM spectral width nm	50 / 135 (12D)
SM spectral width nm	<=5 (laser models)
MM output power dBm	>= -18 / >= -18 into 62.5/125 um (12D; some sheets >= -20)
Specifications	
PARAMETER	VALUE
SM output power 23BL dBm	>=1 / >=1
SM output 235BL dBm	>=1 / >= -4.5 / >= -3 typical sheet values
VCSEL option 01 VCL	850 +/-20 nm; spectral width <=1 nm; output >= -3 dBm into 50/125 um
Specifications	
PARAMETER	VALUE
Automatic wavelength recognition	yes
Tone generation Hz	270; 1000; 2000
Battery life Auto mode hours	50 typical (60 for 01-VCL)

Warranty years: 1

Specifications

PARAMETER	VALUE
Calibration interval years	1
Operating temperature	-10 C to 50 C
Companion meter	EPM-500 series

Specifications

PARAMETER	VALUE
Ports on 12D 23BL	2 (MM LED port + SM laser port)
Fiber MM 12D	62.5/125 um
Fiber SM 23BL	9/125 um

Specifications

PARAMETER	VALUE
Modulation with tones	yes
Auto wavelength switching	yes
Series	FiberBasix 500

Alias: ELS500

Notes

Specs from EXFO FiberBasix 500 / ELS-500 OEM sheets. Exact faceplate (12D, 23BL, 235BL, 12D-23BL) sets wavelengths and powers. Confirm ports and connectors before quoting.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.