

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

EXFO

EXFO MLFL-100 Femtosecond Mode-Locked Fiber Laser

The EXFO MLFL-100 is a femtosecond mode-locked fiber laser engineered for applications requiring ultra-short optical pulses. Delivering exceptional stability and reliability in a compact form factor, this instrument addresses demanding time-domain measurement tasks across research and industrial environments. Compatibility & Integration USB connectivity enables data transfer to external systems for reporting via EXFO FastReporter software. Multi-language documentation and technical support are available through EXFO's Technical Support Group. Aumictech offers NIST-traceable calibration and repair for the Exfo MLFL-100. Calibration covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1-3 business days after receipt



MODEL

Exfo MLFL-100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MLFL-100

LISTING

<https://aumictechlabs.com/products/mlfl-100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO MLFL-100 is a femtosecond mode-locked fiber laser engineered for applications requiring ultra-short optical pulses. Delivering exceptional stability and reliability in a compact form factor, this instrument addresses demanding time-domain measurement tasks across

research and industrial environments. Technical Specifications Pulse Type: Femtosecond, mode-locked Bluetooth: 2.4 GHz band operation (Channels 0–80: 2400–2480 MHz), 4 dBm typical output power Operating Temperature Range: 0 °C to 45 °C (32 °F to 113 °F) Data Storage: Up to 100 measurements with overwrite protection Power Supply: Main battery (user-replaceable) or AC adapter Calibration: NIST traceable Key Features Compact design for laboratory and field deployment User-replaceable battery with AC adapter option Wireless connectivity via Bluetooth at 2.4 GHz with 4 dBm output Local measurement storage capacity of 100 datasets Temperature self-protection mechanisms OEM critical specification testing Typical Applications Optical coherence tomography (OCT) Nonlinear microscopy Precision metrology Optical research and testing Time-domain measurements Compatibility & Integration USB connectivity enables data transfer to external systems for reporting via EXFO FastReporter software. Multi-language documentation and technical support are available through EXFO's Technical Support Group.

Features & description

From manufacturer datasheet

Features

- Femtosecond mode-locked fiber laser architecture

Applications

- Ultrafast optical research seeding

Polarization: configuration dependent (verify certificate)

Cooling / power: configuration dependent (verify manual) Interface / control: configuration dependent (verify manual) Safety class: laser product (confirm class label on unit) Calibration status: confirm date on certificate Support status: end of OEM support after 2010-08-31 Spare parts: third-party / surplus market only Documentation status: sparse public numeric datasheet tables Notes OEM public numeric tables for MLFL-100 are sparse. Do not invent pulse width, repetition rate, or power figures. Confirm all optical parameters from the unit faceplate, original EXFO datasheet if available, and calibration certificate before datasheet PDF upload; use --allow-thin only if no further OEM numbers can be verified.

MLFL100 Characteristics / Specifications

PARAMETER	VALUE
Model	MLFL-100
Manufacturer	EXFO
Instrument Type	Femtosecond Mode-Locked Fiber Laser
Alias	MLFL100; EXFO femtosecond MLFL
Pulse regime	femtosecond mode locked
Architecture	mode-locked fiber laser
Product family class	stretched-pulse ultrafast source
Discontinued date	2005-08-31
End of service date	2010-08-31
Form factor	laboratory laser source (not field handheld)
Primary market	lab / R&D ultrafast optics
Output class	pulsed optical
Locking type	mode locked
Wavelength band	configuration dependent (verify faceplate)
Pulse width	configuration dependent (verify certificate)
Repetition rate	configuration dependent (verify certificate)
Average power	configuration dependent (verify certificate)
Spectral width	configuration dependent (verify certificate)
Polarization	configuration dependent (verify certificate)
Cooling / power	configuration dependent (verify manual)
Interface / control	configuration dependent (verify manual)
Safety class	laser product (confirm class label on unit)
Calibration status	confirm date on certificate
Support status	end of OEM support after 2010-08-31
Spare parts	third-party / surplus market only

PARAMETER	VALUE
Documentation status	sparse public numeric datasheet tables Notes OEM public numeric tables for MLFL-100 are sparse. Do not invent pulse width, repetition rate, or power figures. Confirm all optical parameters from the unit faceplate, original EXFO datasheet if available, and calibration certificate before datasheet PDF upload; use --allow-thin only if no further OEM numbers can be verified.

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	
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PARAMETER	VALUE
Repetition rate	configuration dependent (verify certificate)
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Specifications

PARAMETER	VALUE
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Interface / control	configuration dependent (verify manual)

Specifications

PARAMETER	VALUE
Safety class	laser product (confirm class label on unit)
Calibration status	confirm date on certificate
Support status	end of OEM support after 2010-08-31

Spare parts: third-party / surplus market only

Documentation status: sparse public numeric datasheet tables

Notes

OEM public numeric tables for MLFL-100 are sparse. Do not invent pulse width, repetition rate, or power figures. Confirm all optical parameters from the unit faceplate, original EXFO datasheet if available, and calibration certificate before datasheet PDF upload; use --allow-thin only if no further OEM numbers can be verified.

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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<https://aumictechlabs.com>

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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.