

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

ILX LIGHTWAVE

ILX Lightwave LWM-6500B

The ILX Lightwave LWM-6500B is a precision laser diode mount designed for demanding research and development applications. It offers exceptional thermal management and precise alignment capabilities for laser diodes in a compact and user-friendly package.



MODEL

**ILX Lightwave
LWM-6500B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

LWM-6500B

LISTING

<https://aumictechlabs.com/products/lwm-6500b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave LWM-6500B is a laser wavelength meter designed for precise measurement of laser wavelengths in research and development applications. It operates as a modular system, requiring compatible optical measurement heads to perform wavelength characterization. When paired with the OMH-6722B Silicon Power/WaveHead, the LWM-6500B measures wavelengths across the 400 nm to 1100 nm range with NIST traceable calibration. The system supports multiple sample rate modes Slow, Medium, and Fast - and offers automatic or manual range control for flexible measurement operation. GPIB programmability enables remote operation and system integration for automated test environments. Technical Specifications Measurement Type: Laser Wavelength Meter Wavelength Range (with OMH-6722B): 400 nm to 1100 nm Calibration Standard: NIST traceable (power and wavelength) Sample Rates: Slow, Medium, Fast Range Control: Automatic or manual selection Interface: GPIB programmable Package Dimensions: 20 × 18 × 16 inches Package Weight: 15 lbs Key Features Modular optical measurement head

architecture High-resolution wavelength characterization Selectable measurement integration modes GPIB remote programmability for bench and automated systems NIST traceable calibration for metrological accuracy Typical Applications Laser wavelength verification and characterization Optical source qualification in R&D environments Multi-wavelength laser system testing Manufacturing QA for laser-based instruments Compatibility & Integration The LWM-6500B operates with the OMH-6722B Silicon Power/WaveHead for wavelength-only measurements. When the OMH-6722B is coupled with an OMM-6810B Optical Multimeter, the system expands to simultaneous power and wavelength measurement within the 400 nm to 1100 nm range. This modular design permits integration into larger optical measurement platforms and automated test systems via GPIB control. Product Status: This model is obsolete. Manufacturer support, repairs, and calibration services are no longer available.

LWM6500B Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	ILX LWM-6500B laser wavelength meter
Measurement Quantity	optical wavelength
Source Type	CW laser class
Wavelength Range Class	telecom and/or visible IR class by configuration
Absolute Accuracy Class	pm class on ILX LWM literature
Display Resolution Class	0.001 nm class
Input Fiber Class	singlemode fiber input
Remote Interface	GPIB class
Form Factor	benchtop
AC Powered	yes
Calibration Reference Class	internal wavelength standard class
Update Rate Class	Hz class
Power Range Class	specified input power window
Operating Temperature Class	laboratory
Series Family	ILX LWM-6500
Units	nm THz cm-1 class
Input Connector	FC class
Maximum Input Power Class	specified safe input
Wavelength range	Class: telecom and/or visible IR class by configuration
Operating temperature	Class: laboratory

LWM6500B Specifications

PARAMETER	VALUE
Applications	Laser diode wavelength verification, DFB/DBR tuning characterization, and photonic manufacturing wavelength QA.
High absolute accuracy class	Display of wavelength in nm or THz class
Technical Specifications	Instrument Family: ILX LWM-6500B laser wavelength meter

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory
Operating Temperature	Class: laboratory
Operating Temperature Class	laboratory
Series Family	ILX LWM-6500
Units	nm THz cm-1 class
Input Connector	FC class
Maximum Input Power Class	specified safe input Notes Identity and capability rows from ILX LWM-6500B wavelength meter literature. Confirm exact wavelength span absolute accuracy and input power limits on the unit datasheet and calibration certificate.

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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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.