

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

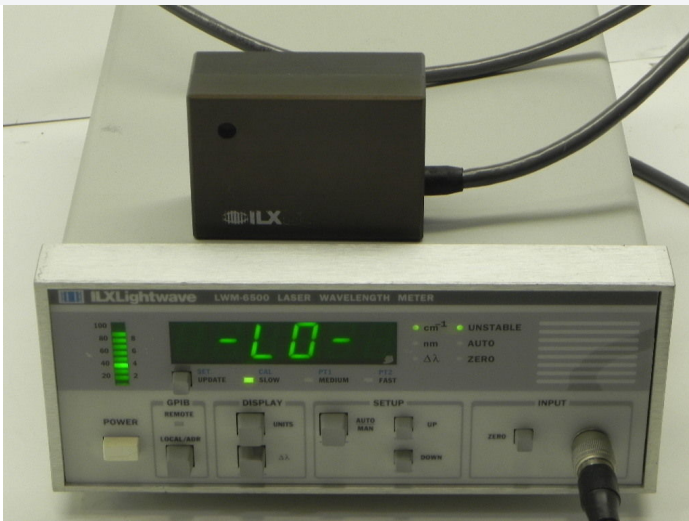
Data Sheet

August 14, 2026

ILX LIGHTWAVE

ILX Lightwave LWM-6500 Laser Wavelength Meter

The ILX Lightwave LWM-6500 Laser Wavelength Meter is a precision instrument for accurately measuring the wavelength of continuous wave (CW) lasers. It offers high resolution and accuracy, making it suitable for various applications, including laser diode characterization, optical component testing, and spectroscopy.



MODEL

**ILX Lightwave
LWM-6500**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

LWM-6500

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave LWM-6500 is a precision laser wavelength meter engineered for accurate measurement of continuous wave (CW) laser wavelengths. Built for applications requiring high-resolution characterization, it delivers the accuracy and stability demanded in optical component testing and spectroscopic analysis. This instrument represents ILX Lightwave's heritage in photonic measurement technology since 1986. Technical Specifications Model: LWM-6500 Measurement Type: Continuous Wave (CW) laser wavelengths Range Control: Automatic or Manual Sample Rates: Slow, Medium, and Fast Display: LED display Programmability: GPIB programmable Weight: 10 lbs Key Features Selectable range control modes for flexible measurement operation Multiple sample rate options to match integration requirements GPIB

interface for remote control and system integration LED readout for direct wavelength indication
Typical Applications Laser characterization and wavelength verification Optical component testing and validation Spectroscopic measurement and analysis Compatibility & Integration The LWM-6500 accepts compatible measurement heads, including the OMH-6730 silicon wavehead. The OMH-6730 operates across the 460 nm to 1000 nm wavelength range and accommodates input power levels from -20 dBm to +30 dBm. Product Status: The LWM-6500 and associated waveheads are discontinued products. Manufacturer support, calibration services, and repairs are no longer available from ILX Lightwave.

LWM6500 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Laser wavelength meter
Gain Ranges	0 to +6
Range Control	Automatic or manual
Sample Rates	Slow Medium Fast
Display	LED
Remote Interface	GPIB
Example Wavehead Model	6730B silicon
Example Wavehead Wavelength Span	460 to 1000 nm
Example Wavehead Power Span Class	minus 20 to +30 dBm class listing
Form Factor	Benchtop wavelength meter mainframe
Intended Use	Laser wavelength measurement with external wavehead
Manufacturer	ILX Lightwave
Family	LWM-6500 / LWM-6500B class listings
Modulation Independence Class	CW laser wavelength readout
User Interface	Front panel plus GPIB
Head Interface	Dedicated wavehead connection
Calibration Class	Periodic wavehead/mainframe verification
Laboratory Role	Wavelength confirmation for tunable and fixed lasers
Power Display Class	Supported with compatible heads
Stability Monitoring	Repeated sample rates for drift checks
Portability	Benchtop
AC Powered	yes
Multi Head Ecosystem	Compatible ILX waveheads

LWM6500 Specifications

PARAMETER	VALUE
Key Features	Gain ranges 0 to +6
Automatic or manual range control	Slow medium and fast sample rates
Technical Specifications	Instrument Type: Laser wavelength meter

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
Instrument Type	Laser wavelength meter
Gain Ranges	0 to +6
Range Control	Automatic or manual
Sample Rates	Slow Medium Fast
Display	LED
Remote Interface	GPiB
Example Wavehead Model	6730B silicon
Example Wavehead Wavelength Span	460 to 1000 nm
Example Wavehead Power Span Class	minus 20 to +30 dBm class listing
Form Factor	Benchtop wavelength meter mainframe
Intended Use	Laser wavelength measurement with external wavehead
Manufacturer	ILX Lightwave
Family	LWM-6500 / LWM-6500B class listings
Modulation Independence Class	CW laser wavelength readout
User Interface	Front panel plus GPiB
Head Interface	Dedicated wavehead connection
Calibration Class	Periodic wavehead/mainframe verification
Laboratory Role	Wavelength confirmation for tunable and fixed lasers
Power Display Class	Supported with compatible heads
Stability Monitoring	Repeated sample rates for drift checks
Portability	Benchtop
AC Powered	yes
Multi Head Ecosystem	Compatible ILX waveheads
Notes Class Marker: Faceplate head pairing controls span	
Notes	
Gain, ranging, sample rates, GPiB, and 6730B 460 to 1000 nm / minus 20 to +30 dBm example from ILX LWM-6500	

product listings. Full accuracy/resolution tables require the LWM-6500 manual and installed wavehead datasheet.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.