

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ILX LIGHTWAVE

ILX Lightwave OMH-6735B – InGaAs Wavehead

The ILX Lightwave OMH-6735B is an InGaAs optical power measurement head designed for near-infrared spectral detection in optical measurement systems. It integrates an InGaAs detector with integrating sphere technology to deliver accurate optical power measurements across diverse optical configurations while eliminating common measurement errors from detector saturation, alignment sensitivity, beam profile variation, polarization effects, and back reflection. Compatibility & Integration The OMH-6735B integrates directly with the ILX Lightwave OMM-6810B Optical Power and Wavelength Meter, forming a complete optical measurement solution for near-infrared applications. Aumictech offers NIST-traceable calibration and repair for the ILX Lightwave OMH-6735B. Calibration covers detector responsivity across all specified wavelengths (typically 800-1700 nm range), absolute power accuracy, and EEPROM calibration coefficient update. Compatible with Agilent/HP 8163A/B, 8164A/B, and 8166A/B mainframes.. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common ILX Lightwave OMH-6735B faults: FC/PC connector damage, EEPROM failure (mainframe shows unrecognized sensor), reduced responsivity. Common faults include FC/PC input connector damage, EEPROM failure causing the module to appear unrecognized by the mainframe, and reduced detector responsivity from contamination.



MODEL

**ILX Lightwave
OMH-6735B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OMH-6735B

LISTING

<https://aumictechlabs.com/products/omh-6735b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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Technical Specifications
Detector Type: InGaAs
Measurement Spectrum: Near-infrared
Calibration Standard: NIST traceable
Operating Temperature: 0 °C to 40 °C
Storage Temperature: -40 °C to 70 °C
Maximum Relative Humidity: <80% RH, non-condensing
Maximum Altitude: 3000 m (9843 ft.)
Mains Voltage Tolerance: ±10% nominal
Safety Classification: Class I Equipment (grounded type)
Pollution Degree: II
Overvoltage Category: II for transient overvoltages
Environmental: Indoor use only; not protected against moisture ingress

Key Features
Integrating sphere-based measurement topology simplifies optical power detection across varying beam profiles and alignment tolerances
Eliminates polarization-dependent measurement errors and back reflection artifacts
Solid detector saturation mitigation enables reliable measurements across extended dynamic ranges
NIST-traceable calibration ensures measurement traceability and accuracy
Suitable for continuous operation within specified environmental limits

Typical Applications
Optical power verification in telecommunications and fiber-optic systems
Near-infrared power measurements in laboratory and production test environments
Precision optical power characterization where alignment and polarization independence are critical

Compatibility & Integration
The OMH-6735B integrates directly with the ILX Lightwave OMM-6810B Optical Power and Wavelength Meter, forming a complete optical measurement solution for near-infrared applications.

Features & description

From manufacturer datasheet

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ILX Lightwave OMH-6735B — Repair & Calibration Service

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ILX Lightwave OMH-6735B price

This ILX Lightwave OMH-6735B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

ILX Lightwave OMH-6735B calibration cost

NIST-traceable calibration for the ILX Lightwave OMH-6735B is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Calibration for this instrument covers detector responsivity across all specified wavelengths (typically 800-1700 nm range), absolute power accuracy, and EEPROM

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Applications

Optical power verification in telecommunications and fiber-optic systems Near-infrared power measurements in laboratory and production test environments Precision optical power characterization where alignment and polarization independence are critical Compatibility & Integration The OMH-6735B integrates directly with the ILX Lightwave OMM-6810B Optical Power and Wavelength Meter, forming a complete optical measurement solution for near-infrared applications.

Unit notes

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OMH-6735B Specifications

PARAMETER	VALUE
Voltage / Current Range	±10% nominal mains supply voltage Wavelength Range: Near-infrared spectrum

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.

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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

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