

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ILX LIGHTWAVE

ILX Lightwave OMH-6780B – Power/Wavehead

The ILX Lightwave OMH-6780B is a power/wavehead designed for use with ILX Lightwave optical power meters. It enables precise measurement of optical power levels in various applications. This wavehead is engineered for accurate and reliable performance, ensuring consistent results in demanding optical testing environments.



MODEL

**ILX Lightwave
OMH-6780B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OMH-6780B

LISTING

<https://aumictechlabs.com/products/omh-6780b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave OMH-6780B is a silicon-based power and wavelength measurement head designed for integration with the OMM-6810B Optical Power and Wavelength Meter. It delivers simultaneous optical power and wavelength measurement across the 830 nm to 1100 nm spectral band, making it ideal for characterizing pump laser diodes and other optical sources. The wavehead employs integrating sphere technology to ensure measurement accuracy independent of beam profile, detector saturation, alignment, and back reflection. Temperature-controlled detectors maintain repeatable performance across ambient conditions while maximizing signal-to-noise ratio. A fiber exit port enables direct connection to an Optical Spectrum Analyzer (OSA) for extended spectral analysis. Wavelength accuracy of ± 0.2 nm and power measurement accuracy of $\pm 5.0\%$ are maintained through NIST-traceable calibration performed in ILX's laboratory. The compact 69 mm diameter $\times$ 28 mm height form factor accommodates diverse

optical test benches. Technical Specifications Spectral Range: 830 nm to 1100 nm Power Range: -40 dBm to +30 dBm (100 nW to 1 W) Wavelength Accuracy: ± 0.2 nm Power Measurement Accuracy: $\pm 5.0\%$ Detector Type: Silicon Input Port Size: 5 mm Operating Temperature: +10°C to +40°C Storage Temperature: -20°C to +60°C Humidity: <85% RH, non-condensing Dimensions: 69 mm (diameter) $\times$ 28 mm (height) Weight: 0.38 kg Key Features Integrating sphere design eliminates measurement errors from beam profile and back reflection Temperature-controlled detector maintains accuracy independent of ambient conditions Fiber exit port supports connection to OSA and complementary measurement instruments NIST-traceable calibration evaluated per NIST Technical Note #1297 Calibrated at 21°C $\pm 3^\circ\text{C}$ at 10 nm intervals Interchangeable fiber optic adapters: FC, SC, LC, bare FC ferrule, bare fiber Compatible with 9/125 μm to 110/140 μm fiber (NA = 0.3) Typical Applications Pump laser diode characterization Optical source power and wavelength verification High-accuracy spectral measurement requiring low polarization dependent response Compatibility & Integration Designed for the OMM-6810B Optical Power and Wavelength Meter. Also compatible with the LPA-9080 series parameter analyzer.

Features & description

From manufacturer datasheet

Technical Specifications

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ILX Lightwave OMH-6780B — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the ILX Lightwave OMH-6780B. Calibration covers detector responsivity at 850, 1310, 1490, 1550, and 1625 nm, absolute power accuracy, linearity across the full dynamic range, and reference power level. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Common ILX Lightwave OMH-6780B faults: detector contamination, damaged FC/PC input port, display failure. Common repairs include detector port cleaning or replacement, display repair, and battery or capacitor replacement in older HP/Agilent/Keysight units. [Request Calibration](#) → [Request Repair Quote](#) →

ILX Lightwave OMH-6780B price

This ILX Lightwave OMH-6780B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

ILX Lightwave OMH-6780B calibration cost

NIST-traceable calibration for the ILX Lightwave OMH-6780B 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 at 850, 1310, 1490, 1550, and 1625 nm, absolute power accuracy, linearity across the full dynamic range, and reference power level. Turnaround is 1 to 3 business days after receipt. [See full calibration details](#) →

Applications

Pump laser diode characterization Optical source power and wavelength verification High-accuracy spectral measurement requiring low polarization dependent response Compatibility & Integration Designed for the OMM-6810B Optical Power and Wavelength Meter. Also compatible with the LPA-9080 series parameter analyzer.

Unit notes

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Technical Specifications

Spectral Range:	830 nm to 1100 nm
Power Range:	-40 dBm to +30 dBm (100 nW to 1 W)
Wavelength Accuracy:	± 0.2 nm
Power Measurement Accuracy:	$\pm 5.0\%$
Detector Type:	Silicon
Input Port Size:	5 mm
Operating Temperature:	+10°C to +40°C
Storage Temperature:	-20°C to +60°C
Humidity:	<85% RH, non-condensing
Dimensions:	69 mm (diameter) $\times$ 28 mm (height)
Weight:	0.38 kg

Key Features

- Integrating sphere design eliminates measurement errors from beam profile and back reflection

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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Temperature-controlled detectors maintain repeatable performance across ambient conditions while maximizing signal-to-noise ratio. A fiber exit port enables direct connection to an Optical Spectrum Analyzer (OSA) for extended spectral analysis. Wavelength accuracy of ± 0.2 nm and power measurement accuracy of $\pm 5.0\%$ are maintained through NIST-traceable calibration performed in ILX's laboratory.

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Applications

Pump laser diode characterization Optical source power and wavelength verification High-accuracy spectral measurement requiring low polarization dependent response

Compatibility & Integration Designed for the OMM-6810B Optical Power and Wavelength Meter. Also compatible with the LPA-9080 series parameter analyzer.

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.