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Data Sheet

August 1, 2026

ILX LIGHTWAVE

ILX Lightwave OMH-6730B – Silicon Wavehead

The ILX Lightwave OMH-6730B is a silicon wavehead for simultaneous optical power and wavelength measurements in visible and near-infrared applications. It integrates with the OMM-6810B Optical Multimeter to deliver precision measurements across fiber-optic systems using an integrating sphere detector architecture. Compatibility & Integration Designed as a plug-in measurement head for the OMM-6810B Optical Multimeter. The OMH-6730B integrates into benchtop and rack-mounted test configurations, supporting bare fiber and connectorized inputs through standard adapter interfaces. Aumictech offers NIST-traceable calibration and repair for the ILX Lightwave OMH-6730B. 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/



MODEL

**ILX Lightwave
OMH-6730B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OMH-6730B

LISTING

<https://aumictechlabs.com/products/omh-6730b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ILX Lightwave OMH-6730B is a silicon wavehead for simultaneous optical power and wavelength measurements in visible and near-infrared applications. It integrates with the OMM-6810B Optical Multimeter to deliver precision measurements across fiber-optic systems using an integrating sphere detector architecture. Technical Specifications Detector Type: Silicon Spectral Range: 400 to 1100 nm (typical for silicon waveheads) Power Measurement Range: –40 dBm to

+30 dBm Wavelength Accuracy: ± 0.2 nm Fiber Compatibility: 9/125 μm to 110/140 μm core sizes; 0.3 NA Operating Temperature: $+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ Storage Temperature: -20°C to $+60^{\circ}\text{C}$ Humidity: $<85\%$ RH, non-condensing

Key Features Integrating sphere design for accurate power detection across the measurement range 5 mm input port for flexible optical connections Supports multiple connector types including FC/PC, FC/APC, SC, and LC with appropriate adapters Wavelength and power measurement in a single instrument head

Typical Applications Fiber-optic system characterization and troubleshooting Optical component testing and validation Broadband source measurements in R&D and production environments Multimode and single-mode fiber power monitoring

Compatibility & Integration Designed as a plug-in measurement head for the OMM-6810B Optical Multimeter. The OMH-6730B integrates into benchtop and rack-mounted test configurations, supporting bare fiber and connectorized inputs through standard adapter interfaces.

Features & description

From manufacturer datasheet

Features

- Silicon detector power / wavelength measurement head
- Integrating-sphere collection
- Compatible with OMM-6810B optical multimeter
- Fiber and free-space input with adapters
- NIST-traceable calibration practice for the OMH-6700B family
- Wavelength accuracy on the order of ± 0.5 nm for the 6730B series (narrow-line sources per ILX AN)

OMH6730B Characteristics / Specifications

PARAMETER	VALUE
Model	OMH-6730B
Manufacturer	ILX Lightwave (Newport / MKS)
Instrument Type	Silicon optical power / wavelength measurement head
Detector Material	Silicon
Host Meter	OMM-6810B
Spectral Range (silicon wavehead family)	approximately 400 to 1100 nm (OMH-6742B published range)
Power Range (1 W silicon family)	approximately -40 to +30 dBm (100 nW to 1 W)
Wavelength Accuracy	about +/-0.5 nm for 6730B series on narrow-linewidth sources (ILX AN16); related OMH-6742B lists +/-1.0 nm
Input Port	integrating sphere; typically 6 mm class aperture on related heads
Operating Temperature (family)	+10 C to +40 C
Storage Temperature (family)	-20 C to +60 C
Relative Humidity	max 85% non-condensing (family)
Compatible Connectors	FC, bare fiber (family) Related Models
Linewidth	sources. The closely related current-catalog silicon power/wavelength head is the OMH-6742B (400 to 1100 nm, -40 to +30 dBm, about +/-1.0 nm wavelength accuracy).
Storage temperature	(family): -20 C to +60 C
Operating temperature	(family): +10 C to +40 C
Humidity	max 85% non-condensing (family)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	(family): -20 C to +60 C
Operating temperature	(family): +10 C to +40 C
Operating Temperature	(family): +10 C to +40 C
Humidity	max 85% non-condensing (family)
Operating Temperature (family)	+10 C to +40 C
Storage Temperature (family)	-20 C to +60 C
Relative Humidity	max 85% non-condensing (family)
Compatible Connectors	FC, bare fiber (family) Related Models

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

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Model	OMH-6730B
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Relative Humidity	max 85% non-condensing (family)
Compatible Connectors	FC, bare fiber (family)

Related Models

OMH-6730: earlier silicon wavehead withoutBsuffix

OMH-6742B: silicon power and wavelength head, 1 W, 400-1100 nm

OMH-6703B: silicon power-only head, 1 W, 400-1100 nm

Standard Operating Conditions

Use only with OMM-6810B. Do not exceed damage thresholds. Wide-linewidth sources (linewidth greater than about 7 nm) can shift the reported wavelength relative to the spectral center.

Operational Notes

Select the silicon head type in the OMM-6810B when connecting. Do not confuse with InGaAs heads (OMH-6735 / OMH-6727B) used for longer telecom wavelengths.

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