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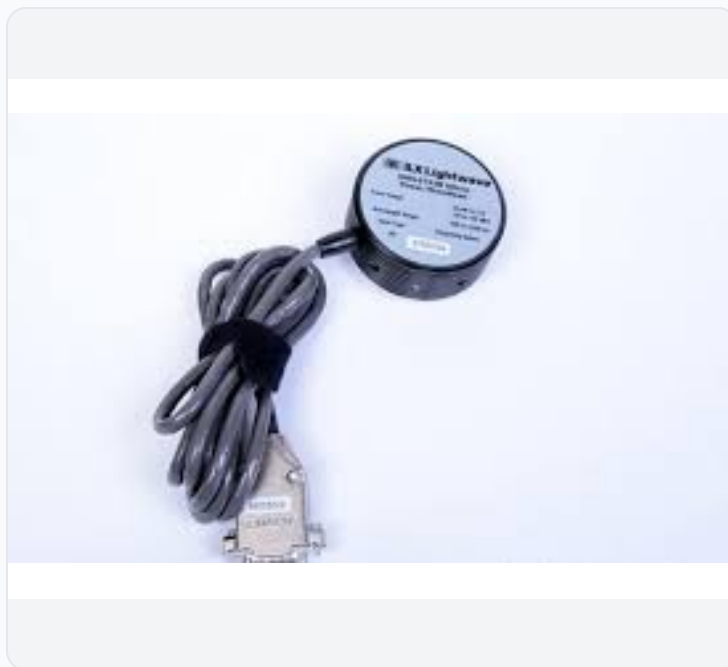
Data Sheet

August 1, 2026

ILX LIGHTWAVE

ILX Lightwave OMH-6730 – Silicon Wavehead

The ILX Lightwave OMH-6730 is a silicon wavehead designed for use with ILX Lightwave optical power meters. It enables precise measurement of optical power within a specific wavelength range. This wavehead is ideal for applications requiring accurate power monitoring in fiber optic systems and laser testing.



MODEL	CALIBRATION
ILX Lightwave OMH-6730	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
OMH-6730	https://aumictechlabs.com/products/omh-6730-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ILX Lightwave OMH-6730 is a silicon wavehead accessory designed for ILX Lightwave optical power meters, including the OMM-6810B Optical Multimeter. It delivers precise optical power measurements across the visible to near-infrared spectrum using silicon detector technology. The device incorporates temperature-controlled operation to achieve enhanced sensitivity, stability, and low-noise performance independent of environmental conditions. Integrating sphere technology eliminates measurement errors introduced by beam profile, alignment, and polarization variations - critical for reliable results in fiber optic systems, laser characterization, and laboratory optical power testing. Technical Specifications Detector Type: Silicon Power Range: -40 to +30 dBm (100 nW to 1 W) Temperature Control: Detectors are temperature-controlled for measurement repeatability and accuracy Calibration: NIST-traceable Measurement Independence: Integrating sphere technology ensures accuracy independent of beam profile,

alignment, and polarization Input Port Size: Within OMH-6700B series form factor Optical Interface: Fiber-coupled with support for FC, SC, LC, ST, and DIN connectors; bare fiber measurements available with appropriate adaptersKey Features Silicon detector technology optimized for visible and near-infrared wavelengths Integrating sphere design simplifies setup and reduces alignment sensitivity Temperature-stabilized operation ensures measurement consistency NIST-traceable calibration provides traceability to national standards Multiple fiber connector options accommodate diverse system configurationsTypical Applications Fiber optic system characterization Laser power measurements and testing Laboratory optical power assessment Wavelength-dependent power profilingCompatibility & Integration The OMH-6730 integrates directly with ILX Lightwave optical power meters, particularly the OMM-6810B Optical Multimeter. It joins the OMH-6700B series of measurement heads, enabling interchangeable use within compatible instrument platforms.

Features & description

From manufacturer datasheet

Features

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

OMH6730 Characteristics / Specifications

PARAMETER	VALUE
Model	OMH-6730
Manufacturer	ILX Lightwave (Newport / MKS)
Instrument Type	Silicon optical power / wavelength measurement head
Detector Material	Silicon
Host Meter	OMM-6810 / 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 6730 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
Compatible Connectors	FC, bare fiber (family) Related Models
Linewidth	sources.
Operating temperature	(family): +10 C to +40 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	(family): +10 C to +40 C
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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.

performance is published for the OMH-6742B (400 to 1100 nm, -40 to +30 dBm, about +/-1.0 nm wavelength accuracy). ILX application note material cites about +/-0.5 nm wavelength accuracy for the 6730 / 6730B series on narrow-linewidth sources.

Applications

Simultaneous power and wavelength measurement of visible and near-IR silicon-band laser diodes; free-space or fiber-coupled measurements with FC or bare-fiber adapters; R&D and production characterization with the OMM-6810B meter.

Key Features

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

Technical Specifications

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Compatible Connectors	FC, bare fiber (family)

Related Models

OMH-6730B: later silicon wavehead with B-series labeling

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-6810 / 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 meter when connecting. Do not confuse with InGaAs heads (OMH-6735 / OMH-6727B) used for longer telecom wavelengths. Confirm OMH-6730 vs OMH-6730B faceplate marking.

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.