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Data Sheet
August 1, 2026

ILX LIGHTWAVE

ILX Lightwave OMH-6735 – InGaAs Wavehead

The ILX Lightwave OMH-6735 is an InGaAs wavehead designed for optical power measurement. It is compatible with ILX Lightwave optical power meters and offers accurate measurements in the near-infrared region. Features include high sensitivity, low noise, and excellent linearity, making it suitable for various applications such as laser diode testing and fiber optic component characterization.

MODEL ILX Lightwave OMH-6735	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU OMH-6735	LISTING https://aumictechlabs.com/products/omh-6735-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ILX Lightwave OMH-6735 is an InGaAs wavehead designed for simultaneous optical power and wavelength measurement in the near-infrared spectrum. Engineered for use with ILX Lightwave optical power meters, this detector delivers high sensitivity and low noise performance across critical test applications. The integrating sphere measurement principle eliminates common sources of error - detector saturation, alignment sensitivity, beam profile dependence, polarization effects, and back reflection - enabling accurate, repeatable results from -40 to +30 dBm (100 nW to 1 W) power levels.Technical Specifications Detector Type: InGaAs (Indium Gallium Arsenide) Spectral Range: Near-infrared region Power Measurement Range: -40 to +30 dBm (100 nW to 1 W) Measurement Principle: Integrating sphere technology Linearity: Excellent across full power range Sensitivity & Noise: High sensitivity with low noise characteristicsKey Features

Simultaneous power and wavelength measurement capability Integrating sphere design mitigates alignment and polarization errors Excellent linearity ensures accuracy across dynamic range High sensitivity detection for precise signal characterizationTypical Applications Laser diode testing and characterization Fiber optic component validation Optical power monitoring in test environmentsCompatibility & Integration Compatible with ILX Lightwave optical power meters including the OMM-6810B series Supports interchangeable fiber optic adapters (FC, SC, LC, ST, and bare fiber configurations)

Features & description

From manufacturer datasheet

Features

• InGaAs detector measurement head (NIR / telecom band) • Integrating-sphere based collection for free-space and fiber inputs • Power and wavelength measurement (wavehead class) • Compatible with OMM-6810 / OMM-6810B optical multimeters • Fiber adapters typically FC, ST, or bare fiber • NIST-traceable calibration practice for the OMH-6700 family

OMH6735 Characteristics / Specifications

PARAMETER	VALUE
Model	OMH-6735
Manufacturer	ILX Lightwave (Newport / MKS)
Instrument Type	InGaAs optical power / wavelength measurement head
Detector Material	InGaAs
Host Meter	OMM-6810 / OMM-6810B
Spectral Range (family InGaAs power/wave)	approximately 950 to 1650 nm class (confirm on head; related OMH-6727B is 950-1650 nm; InGaAs power-only OMH-6708B is 800-1600 nm)
Power Range (family 1 W InGaAs wavehead)	approximately -40 to +30 dBm (100 nW to 1 W) class
Wavelength Accuracy (InGaAs wavehead family)	about +/-1.0 nm class for narrow-line sources (6720B/6727B documentation)
Input	Integrating sphere; fiber or free-space with adapters
Operating Temperature (family)	+10 C to +40 C Related Models
Linewidth	sources (LEDs, broad FP lasers) can differ from the spectral center; see ILX application notes on wide-linewidth measurement with OMH-6700 heads. Do not interchange silicon and InGaAs heads without selecting the correct detector type in the meter.
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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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
Model	OMH-6735
Manufacturer	ILX Lightwave (Newport / MKS)
Instrument Type	InGaAs optical power / wavelength measurement head
Detector Material	InGaAs
Host Meter	OMM-6810 / OMM-6810B
Spectral Range (family InGaAs power/wave)	approximately 950 to 1650 nm class (confirm on head; related OMH-6727B is 950-1650 nm; InGaAs power-only OMH-6708B is 800-1600 nm)
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Wavelength Accuracy (InGaAs wavehead family)	about +/-1.0 nm class for narrow-line sources (6720B/6727B documentation)
Input	Integrating sphere; fiber or free-space with adapters
Operating Temperature (family)	+10 C to +40 C

Related Models
OMH-6735B: later InGaAs wavehead revision
OMH-6727B: current-catalog InGaAs power and wavelength head, 1 W, 950-1650 nm
OMH-6708B: InGaAs power-only head, 100 mW, 800-1600 nm

Standard Operating Conditions
Use only withacompatible OMM-6810-series meter. Observe maximum power and damage thresholds marked on the head. Allow meter/head warm-up per OMM manual.

Operational Notes
Wavelength readings for wide-linewidth sources (LEDs, broad FP lasers) can differ from the spectral center; see ILX application notes on wide-linewidth measurement with OMH-6700 heads. Do not interchange silicon and InGaAs heads without selecting the correct detector type in the meter.

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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