

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ILX LIGHTWAVE

ILX Lightwave OMH-6795B 1" Power/Wavehead

The ILX Lightwave OMH-6795B is a Power/Wavehead that simultaneously measures optical power and detects wavelength for use with the OMM-6810B Optical Multimeter. The integrating sphere design delivers polarization-dependent response of ± 0.002 dB across its full dynamic range. A fiber light exit port supports precise external measurements, while an included fiber tap enables connection to optical spectrum analyzers for spectral analysis of high-power sources. Power linearity: ± 0.05 dB specification; typical performance ± 0.012 dB over full dynamic range. Included fiber tap for high-power spectral characterization via external spectrum analyzer. Aumictech offers NIST-traceable calibration and repair for the ILX Lightwave OMH-6795B. Calibration covers detector responsivity across all specified wavelengths (typically 800-1700 nm range), absolute power accuracy, and EEPROM calibration coefficient.



MODEL

**ILX Lightwave
OMH-6795B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OMH-6795B

LISTING

<https://aumictechlabs.com/products/omh-6795b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave OMH-6795B is a Power/Wavehead that simultaneously measures optical power and detects wavelength for use with the OMM-6810B Optical Multimeter. The integrating sphere design delivers polarization-dependent response of ± 0.002 dB across its full dynamic range. A fiber light exit port supports precise external measurements, while an included fiber tap enables

connection to optical spectrum analyzers for spectral analysis of high-power sources. Technical Specifications Power measurement range: -30 dBm to $+40$ dBm ($1\text{ }\mu\text{W}$ to 10 W) Wavelength range: 1.20 – $1.65\text{ }\mu\text{m}$ Wavelength accuracy: $\pm 2.0\text{ nm}$ Polarization-dependent response: $\pm 0.002\text{ dB}$ Power linearity: $\pm 0.05\text{ dB}$ specification; typical performance $\pm 0.012\text{ dB}$ over full dynamic range Input: Fiber Dimensions: $86\text{ mm} \times 86\text{ mm}$ Key Features Integrating sphere architecture minimizes polarization-dependent loss variation Fiber input and fiber light exit port for flexible measurement configurations Included fiber tap for high-power spectral characterization via external spectrum analyzer Linearity verified using power superposition methodology Compatible with FC, SC, LC, and bare fiber connectors via appropriate adapters Typical Applications High-power optical source characterization (up to 10 W) Simultaneous power and wavelength measurement in single-instrument workflows Wavelength monitoring in the C- and L-band telecommunications windows External measurement setups requiring fiber-coupled output Compatibility & Integration The OMH-6795B integrates with the ILX Lightwave OMM-6810B Optical Multimeter as its primary measurement platform. Fiber adapter compatibility includes FC, SC, LC, bare FC ferrule, and bare fiber when equipped with appropriate transition optics. Product Status: This model is obsolete. The manufacturer no longer provides technical support, manuals, repairs, or calibration services.

Features & description

From manufacturer datasheet

Features

- InGaAs 10 W power/wavehead (versus silicon OMH-6790B)
- Fiber input, 86 mm cube-class housing shared with OMH-6790B
- Fiber tap for OSA on the 6780B/6790B/6795B high-power family
- NIST-traceable family calibration practice
- Compatible only with OMM-6810B series meters

OMH6795B Characteristics / Specifications

PARAMETER	VALUE
Model	OMH-6795B
Manufacturer	ILX Lightwave (Newport / MKS)
Instrument Type	InGaAs optical power and wavelength measurement head
Detector material	InGaAs
Host meter	OMM-6810B
Spectral range	1.20 to 1.65 μm (1200 to 1650 nm)
Power range	-30 to +40 dBm
Power accuracy	$\pm 5.0\%$
Wavelength measurement range	0 to 40 dBm
Wavelength accuracy	± 2.0 nm
Housing	86 mm x 86 mm x 100 mm
Input	fiber input
Related silicon 10 W head	OMH-6790B (830 to 1100 nm, ± 0.2 nm wavelength)
Related 1 W InGaAs wavehead	OMH-6727B (950 to 1650 nm, 100 nW to 1 W)
OSA tap family	included on OMH-6780B, OMH-6790B, and OMH-6795B
Operating temperature family	+10 C to +40 C (OMM-6810B / OMH-6700B family)
Storage temperature family	-20 C to +60 C
Relative humidity family	max 85% non-condensing
Compatible meter only	OMM-6810B
Weight class 10 W cube	2.95 lb (1.34 kg) published on OMH-6790B same housing
Fiber adapters family	FC, SC, LC, bare fiber class on 10 W fiber heads
Spec source table	ILX OMM-6810B measurement-head comparison
Storage temperature	family: -20 C to +60 C
Operating temperature	family: +10 C to +40 C (OMM-6810B / OMH-6700B family)
Humidity	family: max 85% non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	family: -20 C to +60 C
Operating temperature	family: +10 C to +40 C (OMM-6810B / OMH-6700B family)
Operating Temperature	family: +10 C to +40 C (OMM-6810B / OMH-6700B family)
Humidity	family: max 85% non-condensing
Operating temperature family	+10 C to +40 C (OMM-6810B / OMH-6700B family)
Storage temperature family	-20 C to +60 C
Relative humidity family	max 85% non-condensing
Compatible meter only	OMM-6810B
Weight class 10 W cube	2.95 lb (1.34 kg) published on OMH-6790B same housing
Fiber adapters family	FC, SC, LC, bare fiber class on 10 W fiber heads
Spec source table	ILX OMM-6810B measurement-head comparison Notes Specs from ILX Lightwave OMM-6810B datasheet head table (OMH-6795B InGaAs 10 W Power/Wavehead row). Finer silicon-only rows (PDR, NA, fiber-exit attenuation) on the OMH-6700B silicon datasheet do not apply to this InGaAs head. Confirm wavelength/power certificate on the head; do not apply OMH-6790B ±0.2 nm accuracy to the 6795B.

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-6795B
Manufacturer	ILX Lightwave (Newport / MKS)
Instrument Type	InGaAs optical power and wavelength measurement head
Detector material	InGaAs
Host meter	OMM-6810B
Spectral range	1.20 to 1.65 um (1200 to 1650 nm)
Power range	-30 to +40 dBm
Power accuracy	±5.0%
Wavelength measurement range	0 to 40 dBm
Wavelength accuracy	±2.0 nm
Housing	86 mm x 86 mm x 100 mm
Input	fiber input
Related silicon 10 W head	OMH-6790B (830 to 1100 nm, ±0.2 nm wavelength)
Related 1 W InGaAs wavehead	OMH-6727B (950 to 1650 nm, 100 nW to 1 W)
OSA tap family	included on OMH-6780B, OMH-6790B, and OMH-6795B
Operating temperature family	+10 C to +40 C (OMM-6810B / OMH-6700B family)
Storage temperature family	-20 C to +60 C
Relative humidity family	max 85% non-condensing
Compatible meter only	OMM-6810B
Weight class 10 W cube	2.95 lb (1.34 kg) published on OMH-6790B same housing
Fiber adapters family	FC, SC, LC, bare fiber class on 10 W fiber heads
Spec source table	ILX OMM-6810B measurement-head comparison
Notes	
Specs from ILX Lightwave OMM-6810B datasheet head table (OMH-6795B InGaAs 10 W Power/Wavehead row). Finer silicon-only rows (PDR, NA, fiber-exit attenuation) on the OMH-6700B silicon datasheet do not apply to this InGaAs head. Confirm wavelength/power certificate on the head; do not apply OMH-6790B ±0.2 nm accuracy to the 6795B.	

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

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