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Data Sheet

August 14, 2026

ILX LIGHTWAVE

ILX Lightwave PDA6424

Key Features Wide 2 nA to 20 mA photocurrent range Adjustable 0.2 V to 5 V reverse bias 3.5-digit LED display Low-noise laser measurement class ILX Lightwave / Newport branding

Technical Specifications Instrument Type: General-purpose photodiode amplifier

Manufacturer: ILX Lightwave / Newport Photocurrent Range: 2 nA to 20 mA Reverse Bias: 0.2 V to 5 V adjustable Accuracy: plus or minus 2 percent Display: 3.



MODEL

**ILX Lightwave
PDA6424**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PDA6424

LISTING

<https://aumictechlabs.com/products/pda6424-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave PDA6424 is a general-purpose photodiode amplifier engineered for precise optical power measurements in laboratory and industrial settings. It amplifies photodiode current to deliver stable, low-noise readings across a wide dynamic range. The instrument features continuously adjustable reverse bias voltage, a high-brightness LED display, and current offset adjustment for measurement zeroing. Technical Specifications Measurement Range: 2 nA to 20 mA Reverse Bias Voltage: 0.2 V to 5 V (continuously adjustable) Accuracy: $\pm 2\%$ Display: 3.5-digit LED, high brightness Design: Low-noise architecture optimized for precision detection Key Features Wide dynamic range current measurement from picoampere to milliampere levels User-adjustable bias voltage accommodates various photodiode types and measurement conditions High-brightness display enables reliable readings in diverse laboratory environments Current

offset adjustment provides zeroing capability for baseline measurements Operates from standard AC power (120 VAC and 220-240 VAC) Typical Applications Optical power detection and measurement Photodiode characterization Laboratory optical bench measurements Industrial optical power monitoring Relative optical power assessment Compatibility & Integration The PDA6424 interfaces with ILX Lightwave Optical Measurement Heads (OMH series) through standard photodiode amplifier connections. Current input and bias voltage connections follow industry conventions for straightforward integration into existing optical measurement systems. Note: This product is obsolete and no longer manufactured or supported by Newport Corporation. Availability is limited to third-party suppliers of pre-owned equipment.

PDA6424 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	General-purpose photodiode amplifier
Manufacturer	ILX Lightwave / Newport
Photocurrent Range	2 nA to 20 mA
Reverse Bias	0.2 V to 5 V adjustable
Accuracy	plus or minus 2 percent
Display	3.5-digit LED
Literature	Newport/ILX PDA-6424 general-purpose photodiode amplifier datasheet
Use	low-noise laser optical measurement
Package Style	benchtop photodiode amplifier (not an LDC-3900 CSM/LCM plug-in)
Current Decades	covers nA through mA photodiode currents
Bias Use	reverse-bias photodiodes for photoconductive operation
Readout Units Class	photocurrent (and optical power when responsivity is applied by the user)
Family	ILX/Newport PDA photodiode amplifiers
Related Controllers	used alongside ILX LDC/LDX current sources in laser labs
Display Type	bright LED
Polarity Class	photodiode reverse-bias amplifier
Noise Class	low-noise design stated for laser measurement
Verification	confirm range/bias on the PDA-6424 faceplate and datasheet revision
Connector Class	photodiode input per PDA-6424 rear/front panel
Power Class	AC mains benchtop instrument
Documentation	PDA-6424 datasheet (Newport/ILX PDF set)
Identity	PDA-6424 / PDA6424

PDA6424 Specifications

PARAMETER	VALUE
Key Features	Wide 2 nA to 20 mA photocurrent range
Adjustable 0.2 V to 5 V reverse bias	3.5-digit LED display
Technical Specifications	Instrument Type: General-purpose photodiode amplifier

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 list a 2 nA to 20 mA photocurrent range, adjustable reverse bias 0.2 V to 5 V, accuracy within plus or minus 2 percent, and a 3.5-digit LED display. It is a benchtop ILX/Newport laser-measurement instrument (not an LDC-3900 plug-in module).

Applications

Photodiode current-to-voltage conversion and optical-power monitoring of laser diodes and LEDs in laboratory setups.

Key Features

Wide 2 nA to 20 mA photocurrent range

Adjustable 0.2 V to 5 V reverse bias

3.5-digit LED display

Low-noise laser measurement class

ILX Lightwave / Newport branding

Technical Specifications

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PARAMETER	VALUE
Power Class	AC mains benchtop instrument
Documentation	PDA-6424 datasheet (Newport/ILX PDF set)
Identity	PDA-6424 / PDA6424

Notes

Range 2 nA-20 mA, reverse bias 0.2-5 V, plus or minus 2 percent accuracy, and 3.5-digit LED from published Newport/ILX PDA-6424 specifications. Finer bandwidth and noise-density tables belong on the PDA-6424 datasheet revision shipped with the unit and are not invented here.

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.