

**Aumictech**

Test &amp; measurement · bought, sold, repaired, calibrated

**Data Sheet**

August 12, 2026

ILX LIGHTWAVE

## ILX Lightwave LDX-3207B: Precision Current Source, 200 mA, LDX-3220 Series

The ILX Lightwave LDX-3207B is a precision current source designed for laser diode applications. Part of the LDX-3220 Series, it delivers a stable and accurate current up to 200 mA. It ensures precise control and protection for laser diodes, crucial for demanding research and development environments.



MODEL

**ILX Lightwave  
LDX-3207B**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**LDX-3207B**

LISTING

<https://aumictechlabs.com/products/ldx-3207b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The ILX Lightwave LDX-3207B is a precision current source engineered for laser diode applications within the LDX-3220 Series. It delivers user-adjustable output current from 0 to 200 mA with independent current limit control, accommodating the stringent requirements of research, development, and production environments. Three selectable output modes - constant power, constant current, and high bandwidth current - provide operational flexibility for diverse laser control scenarios. Modulation capability via BNC input extends to 100 kHz with 100 mA/V gain, enabling dynamic current control. The instrument combines low-noise output ( $<0.1 \mu\text{A RMS}$ ) with exceptional stability ( $\pm 0.01\%$  of setting +  $0.1 \mu\text{A}$  per hour) and current accuracy of  $\pm(0.1\%$  of setting +  $1 \mu\text{A}$ ), delivering  $1 \mu\text{A}$  resolution across the full range. Integrated laser protection

mechanisms guard against transients and overloads, while audible indicators signal current limit and open circuit conditions. Compliance voltage reaches 5 V.

**Technical Specifications**

Output Current: 0–200 mA, user-adjustable Current Limit: 0–200 mA, user-adjustable Current Resolution: 1  $\mu$ A Current Accuracy:  $\pm(0.1\%$  of setting + 1  $\mu$ A) Output Ripple and Noise: <0.1  $\mu$ A RMS Stability:  $\pm(0.01\%$  of setting + 0.1  $\mu$ A) per hour Compliance Voltage: 5 V Modulation Input: BNC connector, DC to 100 kHz, 100 mA/V gain Modulation Bandwidth (3 dB): DC to 100 kHz at 50 mA P-P output Display: 3-1/2 digit LED Dimensions: 4.00 in (H)  $\times$  8.00 in (W)  $\times$  13.00 in (L) Weight: 7.00 lbs Input Power: 100–240 VAC, 50/60 Hz (jumper selectable)

**Key Features**

Three output modes: Constant Power, Constant Current, High Bandwidth Current Fine/coarse parameter adjustment knob for precision control Output connectors: Binding posts, isolated from chassis ground Optional GPIB interface for remote control and programming Audible alert: 1-second repeating tone at current limit; 3-second tone for open circuit Integrated laser diode protection against transients and overloads

**Typical Applications**

Precision laser diode biasing and modulation High-stability current sourcing for photonics research Dynamic current control in production test environments

**Compatibility & Integration**

Part of the ILX Lightwave LDX-3220 Series. Optional GPIB interface enables integration with automated test systems.

## Features & description

---

From manufacturer datasheet

### Technical Specifications

Output Current: 0–200 mA, user-adjustable Current Limit: 0–200 mA, user-adjustable Current Resolution: 1  $\mu$ A Current Accuracy:  $\pm(0.1\%$  of setting + 1  $\mu$ A) Output Ripple and Noise: <0.1  $\mu$ A RMS Stability:  $\pm(0.01\%$  of setting + 0.1  $\mu$ A) per hour Compliance Voltage: 5 V Modulation Input: BNC connector, DC to 100 kHz, 100 mA/V gain Modulation Bandwidth (3 dB): DC to 100 kHz at 50 mA P-P output Display: 3-1/2 digit LED Dimensions: 4.00 in (H)  $\times$  8.00 in (W)  $\times$  13.00 in (L) Weight: 7.00 lbs Input Power: 100–240 VAC, 50/60 Hz (jumper selectable)

---

### Key Features

Three output modes: Constant Power, Constant Current, High Bandwidth Current Fine/coarse parameter adjustment knob for precision control Output connectors: Binding posts, isolated from chassis ground Optional GPIB interface for remote control and programming Audible alert: 1-second repeating tone at current limit; 3-second tone for open circuit Integrated laser diode protection against transients and overloads

---

### ILX Lightwave LDX-3207B — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the ILX Lightwave LDX-3207B. Calibration covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Common ILX Lightwave LDX-3207B faults: laser diode end-of-life (output below spec), fiber output connector damage, output instability. Common repairs include laser diode replacement when output falls below spec, fiber output connector repair, and thermal management service. [Request Calibration](#) → [Request Repair Quote](#) →

---

### ILX Lightwave LDX-3207B price

This ILX Lightwave LDX-3207B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

---

### ILX Lightwave LDX-3207B calibration cost

NIST-traceable calibration for the ILX Lightwave LDX-3207B is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Calibration for this instrument covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. Turnaround is 1 to 3 business days after receipt. See full calibration details →

---

## Applications

Precision laser diode biasing and modulation High-stability current sourcing for photonics research  
Dynamic current control in production test environments Compatibility & Integration Part of the ILX  
Lightwave LDX-3220 Series. Optional GPIB interface enables integration with automated test systems.

---

## Unit notes

The ILX Lightwave LDX-3207B is a precision current source engineered for laser diode applications within the LDX-3220 Series. It delivers user-adjustable output current from 0 to 200 mA with independent current limit control, accommodating the stringent requirements of research, development, and production environments. Three selectable output modes - constant power, constant current, and high bandwidth current - provide operational flexibility for diverse laser control scenarios. Modulation capability via BNC input extends to 100 kHz with 100 mA/V gain, enabling dynamic current control. The instrument combines low-noise output ( $<0.1\ \mu\text{A}$  RMS) with exceptional stability ( $\pm 0.01\%$  of setting +  $0.1\ \mu\text{A}$  per hour) and current accuracy of  $\pm(0.1\%$  of setting +  $1\ \mu\text{A}$ ), delivering  $1\ \mu\text{A}$  resolution across the full range. Integrated laser protection mechanisms guard against transients and overloads, while audible indicators signal current limit and open circuit conditions. Compliance voltage reaches 5 V. Technical Specifications Output Current: 0–200 mA, user-adjustable Current Limit: 0–200 mA, user-adjustable Current Resolution:  $1\ \mu\text{A}$  Current Accuracy:  $\pm(0.1\%$  of setting +  $1\ \mu\text{A}$ ) Output Ripple and Noise:  $<0.1\ \mu\text{A}$  RMS Stability:  $\pm(0.01\%$  of setting +  $0.1\ \mu\text{A}$ ) per hour Compliance Voltage: 5 V Modulation Input: BNC connector, DC to 100 kHz, 100 mA/V gain Modulation Bandwidth (3 dB): DC to 100 kHz at 50 mA P-P output Display: 3-1/2 digit LED Dimensions: 4.00 in (H)  $\times$  8.00 in (W)  $\times$  13.00 in (L) Weight: 7.0

# 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.

The ILX Lightwave LDX-3207B is a precision current source designed for laser diode applications. Part of the LDX-3220 Series, it delivers a stable and accurate current up to 200 mA. It ensures precise control and protection for laser diodes, crucial for demanding research and development environments.

The ILX Lightwave LDX-3207B is a precision current source engineered for laser diode applications within the LDX-3220 Series. It delivers user-adjustable output current from 0 to 200 mA with independent current limit control, accommodating the stringent requirements of research, development, and production environments. Three selectable output modes - constant power, constant current, and high bandwidth current - provide operational flexibility for diverse laser control scenarios.

Modulation capability via BNC input extends to 100 kHz with 100 mA/V gain, enabling dynamic current control. The instrument combines low-noise output ( $<0.1 \mu\text{A RMS}$ ) with exceptional stability ( $\pm 0.01\%$  of setting +  $0.1 \mu\text{A}$  per hour) and current accuracy of  $\pm 0.1\%$  of setting +  $1 \mu\text{A}$ , delivering  $1 \mu\text{A}$  resolution across the full range. Integrated laser protection mechanisms guard against transients and overloads, while audible indicators signal current limit and open circuit conditions.

Compatibility & Integration Part of the ILX Lightwave LDX-3220 Series. Optional GPIB interface enables integration with automated test systems.

## Technical Specifications

Output Current: 0–200 mA, user-adjustable Current Limit: 0–200 mA, user-adjustable Current Resolution:  $1 \mu\text{A}$  Current Accuracy:  $\pm 0.1\%$  of setting +  $1 \mu\text{A}$  Output Ripple and Noise:  $<0.1 \mu\text{A RMS}$  Stability:  $\pm 0.01\%$  of setting +  $0.1 \mu\text{A}$  per hour Compliance Voltage: 5 V Modulation Input: BNC connector, DC to 100 kHz, 100 mA/V gain Modulation Bandwidth (3 dB): DC to 100 kHz at 50 mA P-P output Display: 3-1/2 digit LED Dimensions: 4.00 in (H)  $\times$  8.00 in (W)  $\times$  13.00 in (L) Weight: 7.00 lbs Input Power: 100–240 VAC, 50/60 Hz (jumper selectable)

## Key Features

Three output modes: Constant Power, Constant Current, High Bandwidth Current Fine/coarse parameter adjustment knob for precision control Output connectors: Binding posts, isolated from chassis ground Optional GPIB interface for remote control and programming Audible alert: 1-second repeating tone at current limit; 3-second tone for open circuit Integrated laser diode protection against transients and overloads

## ILX Lightwave LDX-3207B – Repair & Calibration Service

Aumitech offers NIST-traceable calibration and repair for the ILX Lightwave LDX-3207B. Calibration covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt.

Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

Common ILX Lightwave LDX-3207B faults: laser diode end-of-life (output below spec), fiber output connector damage, output instability. Common repairs include laser diode replacement when output falls below spec, fiber output connector repair, and thermal management service.

[Request Calibration](#) → [Request Repair Quote](#) →

## ILX Lightwave LDX-3207B price

This ILX Lightwave LDX-3207B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

## ILX Lightwave LDX-3207B calibration cost

NIST-traceable calibration for the ILX Lightwave LDX-3207B is (standard – pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Calibration for this instrument covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. Turnaround is 1 to 3 business days after receipt. See full calibration details →

## Applications

Precision laser diode biasing and modulation High-stability current sourcing for photonics research Dynamic current control in production test environments

Compatibility & Integration Part of the ILX Lightwave LDX-3220 Series. Optional GPIB interface enables integration with automated test systems.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341  
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·  
30-day returns  
NAICS 423690 · 811210 · 541380  
Generated August 12, 2026

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