

**Aumictech**

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Data Sheet

August 14, 2026

ILX LIGHTWAVE

ILX Lightwave LDT-5910B Temperature Controller

The ILX Lightwave LDT-5910B is a precision laser diode controller designed for demanding laser diode characterization and control applications. It offers ultra-stable current and temperature control, ensuring accurate and reliable laser operation. This controller features a user-friendly interface and comprehensive laser protection features.



MODEL

**ILX Lightwave
LDT5910B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

LDT5910B

LISTING

<https://aumictechlabs.com/products/ldt5910b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave LDT-5910B is a laser diode controller that provides precise control of laser diode current and temperature. It is a variety of applications, including laser diode characterization, laser diode burn-in, and laser diode stabilization. The LDT-5910B features a low-noise current source, a high-stability temperature controller, and comprehensive laser protection features. This ensures accurate, reliable, and safe laser diode operation.

LDT5910B Characteristics / Specifications

PARAMETER	VALUE
Maximum Output Current	4 A
Noise Ripple	less than 500 uA
Compliance Voltage At 4 A	4 V
Maximum Current Reading	4.0 A
Maximum Current Reading With Booster	10.0 A
Maximum Temperature Reading	200 C
Short Term Stability 1 hour	0.005 C or better
Long Term Stability 24 hours	0.01 C or better
Current Limit Control Range	0 to 10.0 A
Current Limit Control Resolution	plus or minus 20 mA
Temperature Control Range	minus 99 C to +150 C
Output Type Class	thermoelectric cooler drive
Controller Architecture	microprocessor based
Intended Load Class	laser diodes and optoelectronic TEC modules
Stability Class Short Term	0.005 C or better in 1 hour
Stability Class Long Term	0.01 C or better in 24 hours
Current Limit Span	0 to 10 A with booster-capable limit range
Compliance At Rated Current	4 V
Noise Performance	less than 500 uA ripple
Temperature Reading Ceiling	200 C
Primary Output Current Ceiling	4 A without booster
Sensor Compatible Class	TEC temperature control instrument

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	
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Notes	
Numeric specifications from ILX LDT-5910B published specification summaries used by authorized resellers. Confirm GPIB option and booster accessories against the faceplate and manual for the specific serial.	

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.