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LDC 3908

8-Channel Laser Diode Controller

Product Features

Mainframe
8 independent channels, with 16 isolated outputs

Fast GPIB/IEEE488.2 interface

"Smart" modules for flexibility and speed

Laser Current Sources
High compliance voltage

Direct modulation up to 1.2 MHz

Four-wire measurement of laser diode forward voltage

Advanced laser protection features including adjustable voltage limit

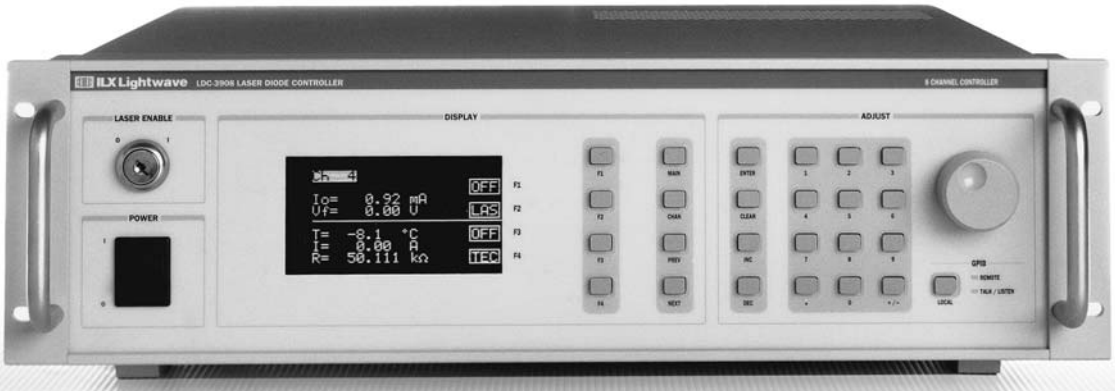
TEC Controllers
TEC voltage measurement

Resistive heater control adapters available

The LDC-3908 8-Channel Laser Diode Controller has all of the same great features as our popular LDC-3916 16-Channel Laser Diode Controller. In fact, modules are interchangeable between the two instruments. The smaller size and lighter weight of the LDC-3908 make it an ideal instrument for smaller channel count applications such as R&D or production test of EDFAs and Raman amplifiers.

Handles on the front panel and flip-up feet on the bottom facilitate bench-top use, while flanges facilitate installation into standard 19 inch instrument racks. "Smart" modules include controller modules with up to 1.5 A of laser current source and 9 W of TEC control, dual current source modules with two isolated currents of up to 1 A, a dual 9 W TEC module, a 3 A laser current module, and a 3 A 24 W TEC module.

See the LDC-3916 brochure for more information on features and module specifications.



8 Channels of Laser Diode Control On Your Bench or in Your Rack

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LDC 3908

8-Channel Laser Diode Controller

Specifications[1]

MAINFRAME/GENERAL

Chassis Ground:	4mm Banana Jack
GPIB Connector:	24-pin IEEE-488.2
RS-232 Connector:	9-pin D-sub
Power Requirements:	50–60 Hz; selectable voltage 100 V, 120 V, 220 V, 240 V, (+6%, –10%)
Size (HxWxD):	133 mm x 482 mm x 389 mm 5.25" x 18.98" x 15.3"
Weight (typical)	
Mainframe:	20 kg (44 lbs)
With 8 Modules:	24 kg (52 lbs)
Operating Temp.:	0°C–40°C
Storage Temp.:	–40°C to 70°C
Humidity:[2]	20% to 85% noncondensing
Laser Safety Features:	Keyswitch, Interlock, Output Delay: (Meets CDRH US21, CFR 1040.10)
Display:	Vacuum fluorescent, 64 x 128 pixels 83 mm x 41 mm

NOTES

1 See LDC-3916 brochure for module specifications.
2 Based on the vacuum fluorescent display specification.

This product has passed all CE requirements and bears the CE mark.

In keeping with our commitment to continuing improvement, ILX Lightwave reserves the right to change specifications without notice and without liability for such changes.

LabVIEW® is a registered trademark of National Instruments.

ORDERING INFORMATION

LDC-3908	8-Channel Laser Diode Controller Mainframe
LDC-3916	16-Channel Laser Diode Controller Mainframe
LDC-3916371	High TEC Resolution 500 mA/9 W Controller Module
LDC-3916372	500 mA/9 W Controller Module
LDC-3916374	1 A/9 W Controller Module
LDC-3916376	1.5 A/9 W Controller Module
LDC-3916332	500 mA/500 mA Dual Current Source Module
LDC-3916334	1 A/1 A Dual Current Source Module
LDC-3916338	3 A Current Source Module
LDC-3916550	9 W/9 W Dual Temperature (TEC) Controller Module
LDC-3916558	3 A (24 W) Temperature (TEC) Controller Module
RM-137	Rack Mount Kit, 20.5" hole spacing
RM-138	Rack Mount Kit, 25" hole spacing
CC-305S	Current Source/Laser Diode Mount Interconnect Cable
CC-306S	Current Source/Unterminated Interconnect Cable
CC-316M	Laser Current Cables (bundle of 8)
CC-501S	TE Controller/Unterminated Interconnect Cable
CC-505S	TE Controller/Laser Diode Mount Interconnect Cable
CC-516M	TE Controller Cables (bundle of 8)
LNF-320	Low Noise Filter
LDM-4616	16-Channel Butterfly Mount
LDM-4604/xDIL	DIL Module for LDM-4616 Mount
UCA-350	Unipolar Heater Control Adapter
LabVIEW® Instrument Driver	



When coupled with the LDM-4616 Modular Laser Diode Mount, the LDC-3908 provides a configurable, cost-effective solution for multi-channel DWDM signal sources. The mount also supports many popular 980 nm and 1480 nm pump laser diodes for EDFA test applications.

ILX Lightwave
Photonic Test & Measurement Instrumentation
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