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SIDE-BY-SIDE COMPARISON

Benchtop Laser Diode Controllers
Multi-Channel Laser Diode Controllers
Laser Diode Drivers
Pulsed Current Sources
Laser Diode Temperature Controllers
Laser Diode Mounting Fixtures

Benchtop Laser Diode Controllers

- High stability, low noise current source with integrated 32W temperature controller
- Three models available with up to 4A laser drive current
- Analog modulation capability to 1MHz
- Temperature controller compatible with thermistor, IC, and RTD temperature sensors



LDC-3700B Laser Diode Controller

Model	LDC-3714B	LDC-3724B	LDC-3744B
Maximum Current Output	50mA/100mA	200mA/500mA	2A/4A
Noise and Ripple	<1.5µA/<1.5µA	<2µA/<2µA	<10µA/<10µA
Short Term Stability	<20ppm	<20ppm	<20ppm
Compliance Voltage	10V	10V	10V
Analog Modulation Input	Yes	Yes	Yes
Laser Diode Protection	• Precision 4-Wire voltage measurement • Adjustable compliance voltage • Slow start circuit • Independent current limit • Double shielded transformer • Transient protection		
TEC Output Power	32W	32W	32W
TEC Output Current	4A	4A	4A
TEC Output Voltage	8V	8V	8V
Temperature Stability	<±0.01°C	<±0.01°C	<±0.01°C
Temperature Control Range	-100.0°C to 99.9°C	-100.0°C to 99.9°C	-100.0°C to 99.9°C
Thermistor Sensor	Yes	Yes	Yes
IC Sensor	Yes	Yes	Yes
RTD	Yes	Yes	Yes
TEC Measurement Display	Temperature, current, resistance	Temperature, current, resistance	Temperature, current, resistance
TEC Control Loop	Hybrid P-I	Hybrid P-I	Hybrid P-I
TEC Voltage	Yes	Yes	Yes

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Measurement			
GPIB Interface	Yes	Yes	Yes

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Multi-Channel Laser Diode Controllers

- 4, 8, or 16 independent, isolated channels for multiple laser and TE control
- Wide variety of laser and TE controller modules with up to 8A laser drive current, 48W TEC per channel
- Dual channel laser current or temperature control modules for control of up to 32 laser diodes per mainframe



LDC-3916 Sixteen Channel Laser Diode Controller

Model	**LDC-3900**	**LDC-3908**	**LDC-3916**	**LDC-3926**
Number of Channels	Up to 4	Up to 8	Up to 16	Up to 16
Maximum Current Output	Up to 8A	Up to 3A	Up to 3A	Up to 6A
Noise and Ripple	Depends on Module			
Short Term Stability				
Compliance Voltage				
Analog Modulation				
Laser Diode Protection				
TEC Output Power	Up to 32W	Up to 24W	Up to 24W	Up to 48W
TEC Output Current	Up to 4A	Up to 3A	Up to 3A	Up to 6A
TEC Output Voltage	Up to 8V	Up to 8V	Up to 8V	Up to 8V
Temperature Stability	Depends on Module			
Temperature Control Range				
Thermistor Sensor				
IC Sensor				
RTD				
TEC Measurement Display				
Control Loop				
TEC Voltage Measurement	Yes	Yes	Yes	Yes
GPIB Interface	Yes	Yes	Yes	Yes
RS-232 Interface	No	Yes	Yes	Yes

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Laser Diode Drivers

- High stability, low noise output
- Dual output ranges on most models
- Constant current and constant power operating modes
- Multiple laser protection features
- Up to 15V compliance available with 4-Wire voltage measurement on select models
- Pulsed and CW modes



CW LASER DIODE DRIVERS								
Model	LDX-3412	LDX-3525	LDX-3545	LDX-3565	LDX-3620	LDX-3210	LDX-3220	LDX-3232
Output Current	200mA	200mA/500mA	1A/3A	3A/6A	200mA/500mA	50mA/100mA	200mA/500mA	2A/4A
Noise and Ripple	<2µA	<2µA/2µA	<8µA/8µA	<15µA/30µA	<100nA/500nA	<1.5µA/1.5µA	<2µA/2µA	<10µA/10µA
Short Term Stability	<50ppm	<20ppm	<20ppm	<20ppm	<10ppm	<10ppm	<10ppm	<20ppm
Compliance Voltage	6V	7V	6.5V	5V	5V/4V	10V	10V	15V
Analog Modulation Input	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Microprocessor Controlled	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Laser Diode Protection	• Slow start circuit • Independent current limit • Double shielded transformer • Transient protection					• Precision 4-Wire voltage measurement • Adjustable compliance voltage • Slow start circuit • Independent current limit • Double shielded transformer • Transient protection		
GPIB Interface	No	No	No	No	No	Yes	Yes	Yes

PULSED CURRENT SOURCES		
Model	LDP-3840B	LDP-3811
Output Current	3000mA	200mA/500mA
Pulse Width	100ns to 10ms	100ns to 1ms
Rise/Fall Time	≤50ns	≤25ns
Compliance Voltage	≥10V	≥25V
Overshoot	<5%	<5%
Pulse Repetition Rate	1µs to 100ms	1µs to 1ms
Duty Cycle	0 to 10%	0 to 100%
GPIB Interface	Yes	Yes

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Laser Diode Temperature Controllers

- Low noise, bipolar output up to 120W
- Long term temperature stability as low as 0.005°C
- Adjustable TEC current limits
- Supports most thermistor, IC, and RTD temperature sensors
- Configurable sensor current
- Direct temperature display (°C) on most models



LDT-5900 Series Laser Diode Temperature Controller

Model	LDT-5412	LDT-5525	LDT-5948	LDT-5980

Output Power	4W	24W	60W	120W
Output Current	2A	4A	5A	10A
Output Voltage	2V	6V	12V	12V
Temperature Stability	----------	<±0.01°C	<±0.005°C	<±0.005°C
Temperature Control Range	----------	-99.9°C to 199.99°C	-50°C to 250°C	-50°C to 250°C
Thermistor Sensor	Yes	Yes	Yes	Yes
IC Sensor	No	Yes	Yes	Yes
RTD	No	Yes	Yes	Yes
TEC Measurement Display	Current, resistance	Temperature, current, resistance	Temperature, current, voltage, AC resistance, resistance	Temperature, current, voltage, AC resistance, resistance
Control Loop	Hybrid P-I	Hybrid P-I	Fully adjustable digital PID	Fully adjustable digital PID
Auto-Tune PID Optimization	No	No	Yes	Yes
4-Wire Voltage Measurement	No	No	Yes	Yes
GPIB/IEEE-488 and RS-232 Interface	No	No	Yes	Yes

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Laser Diode Mounting Fixtures

- Compatible with many industry standard package styles
- Case temperature control option available for most fixtures
- User configurable



LDM-4442 High Power Laser Diode Mount

Model	**LDM-4982**	**LDM-4982M**	**LDM-4983**	**LDM-4984**	**LDM-4984RF**	**LDM-4986**
Package Style	DIL	Mini-DIL	7- or 13-Pin Butterfly	14-Pin Butterfly	14-Pin Butterfly Bias-T Modulated	Fiber-Coupled TO-can, Flanged
Case Temperature Control	Optional	Yes	Optional	Optional	Optional	Yes
Bias-T Option	Yes	Yes	No	Yes	No	No
Water Cooling Option	No	No	No	No	No	No
Nitrogen Purge Connection	No	No	No	No	No	No
Collimating Lens Option	No	No	No	No	No	No

Model	**LDM-4989**	**LDM-4990**	**LDM-4407**	**LDM-4409**	**LDM-4412**	**LDM-4442**

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Package Style	20- or 26-Pin Butterfly	TO-can	To-can	C-mount (C-block)	To-can Requiring Collimating Lens	HHL, TO-3, and other high power packages/font>
Case Temperature Control	Yes	Yes	Yes	Yes	Yes	No
Bias-T Option	No	No	No	No	No	No
Water Cooling Option	No	Yes	No	No	Yes	Standard
Nitrogen Purge Connection	No	Yes	Yes	No	Yes	No
Collimating Lens Option	No	No	No	No	Yes	No



- Control up to 16 laser diodes in one rack mountable chassis
- Convenient cable connections to ILX Lightwave controllers
- Supports butterfly, DIL, mini-DIL, and fiber-coupled TO-can packages

LDM-4616 Sixteen Channel Laser Diode Mount

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