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LDX 3500 Series

Precision Laser Diode Drivers

Specifications

MODEL NUMBER	LDX-3525	LDX-3545	LDX-3565
CURRENT OUTPUT[1]			
Output Current Range:	200/500 mA	1000/3000 mA	2000/6000 mA
Setpoint Resolution:	50/125 µA	250/750 µA	500 µA /1.5 mA
Setpoint Accuracy (% of FS):	±0.1% (±.2 /±.5 mA)	±0.1% (±1 /±3 mA)	±0.1% (±2 /±6 mA)
Compliance Voltage:	7 V max	6.5 V	5 V
Temperature Coefficient:	<50 ppm/°C	<50 ppm/°C	<50/<100 ppm/°C
Short-Term Stability (1 hr):[2]	<20 ppm	<20 ppm	<20 ppm
Long-Term Stability (24 hr):[3]	<50 ppm	<50 ppm	<50 ppm
Noise and Ripple (rms)[4]			
High Bandwidth Mode:	<4/<4 µA	<15/<20 µA	<50/<100 µA
CW Mode:	<2/<2 µA	<8/<8 µA	<15/<30 µA
Transients			
Operational:[5]	<1/<1 mA	<2/<5 mA	< 5/<15 mA
Power-line Induced:[6]	<5/<5 mA	<10/<10 mA	<10/<40 mA
CURRENT LIMIT SETTINGS			
Range:	0– 202.0/0–505.0 mA	0–1010/0–3030 mA	0–2020/0–6060 mA
Resolution:	1/2 mA	4/12 mA	8/24 mA
Accuracy:	±1% FS	±1% FS	±1% FS
PHOTODIODE FEEDBACK			
Type: Differential	Differential	Differential	Differential
Reverse Bias:	0–5 V, adjustable	0–5 V, adjustable	0–5 V, adjustable
Photodiode Current Range:	5–5000 µA	5–9999 µA	0.01–25 mA
Output Stability: [7]	±0.02%	±0.02%	±0.02%
Setpoint Accuracy (% of FS):	±0.1%	±0.1%	±0.1%
Power Modulation BW:	1 kHz	1 kHz	1 kHz
ANALOG MODULATION			
Input:	0–10 V, 10 kΩ	0–10 V, 10 kΩ	0–10 V, 10 kΩ
Transfer Function:	20/50 mA/V	100/300mA/V	200/600 mA/V
Transfer Function Accuracy:	±10%	±10%	±10%
Bandwidth (3dB)[8]			
High Bandwidth Mode:	0–500/0–150 kHz	0–200/0–50 kHz	0–100/0–50 kHz
CW Mode:	0–100/0–100 Hz	0–100/0–100 Hz	0–80/0–80 Hz
ANALOG OUTPUT			
Output Voltage:	0–10 V	0–10 V	0–10 V
Transfer Function (±5% of FS):	20/50 mA/V	100/ 300 mA/V	200/600 mA/V
CONNECTORS			
Current Source Output:	9-pin, D-sub female	9-pin, D-sub female	9-pin, D-sub female
Photodiode Input, Mod Input, Analog Output:	BNC	BNC	BNC
Chassis Ground:	4 mm Banana Jack	4 mm Banana Jack	4 mm Banana Jack
MEASUREMENT (DISPLAY)			
Display Type:	4 digit green LED	4 digit green LED	4 digit green LED
Output Current Range:	0–200.0/0–500.0 mA	0–999.9/0–3000 mA	0–2000/0–6000 mA
Output Current Resolution:	0.1/0.1 mA	0.1/1.0 mA	1.0/1.0 mA
Output Current Accuracy:[9]	±0.1% of FS	±0.1% of FS	±0.1% of FS
Photodiode Current Range:	0–5.000 mA	0–9.999 mA	0–25.00 mA
Photodiode Current Resolution:	0.001 mA	0.001 mA	0.01 mA
Photodiode Current Accuracy:[9]	±0.1% of FS	±0.1% of FS	±0.1% of FS
Photodiode Resposivity Range:[10]	0.001–1.000 mA/mW	0.001–1.000 mA/mW	0.001–1.000 mA/mW
Photodiode Responsivity Resolution:[10]	0.001 mA/mW	0.001 mA/mW	0.001 mA/mW
Optical Power Range:	0–500.0 mW	0–3000 mW	0–6000 mW
Optical Power Resolution:	0.1 mW	1 mW	1 mW

GENERAL

Power Requirements, VAC (50–60Hz):	95–125, 210–250
Size (HxWxD):	88 mm x 185 mm x 304 mm 3.5"x 7.3"x12"
Weight:	2.7 kg (6.0 lbs)
Operating Temperature:	0 to 40°C to 70°C
Storage Temperature:	–40°C to 70°C
Humidity:	<85% relative, noncondensing
Laser Safety:	Keyswitch, Interlock, Output Delay (meets 21 CFR 1040.10),all models

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NOTES

1 All values measured after a one hour warm-up period.
2 Over any 1-hour period, half scale output, at 25°C ambient.
3 Over a 24-hour period, half scale output, at 25°C ambient.
4 Measured optically, evaluating noise intensity of a laser diode into a 150 kHz Bandwidth photodetector.
5 Maximum output current transient resulting from normal operational situations (e.g., power on-off, current on-off), as well as accidental situations (e.g., power line plug removal). Tested to ILX Technical Standard #LDC-00196.
6 Maximum output current transient resulting from a 1000 V power-line transient spike. Tested to ILX Lightwave Technical Standard #LDC-00196. Request ILX Application Note #3.
7 Maximum monitor photodiode current drift over any 30-minute period. Assumes zero drift in photodiode responsivity.
8 Assumes 50% modulation depth at half-scale output.
9 Measured at 25°C.
10 The responsivity value is user-defined and is used to calculate the optical power.

ORDERING INFORMATION

LDX-3525	Precision Laser Diode Driver (200/500 mA)
LDX-3545	Precision Laser Diode Driver (1/3 A)
LDX-3565	Precision Laser Diode Driver (2/6 A)
CC-305S	Current Source/Laser Diode Mount Interconnect Cable
CC-306S	Current Source/Unterminated Interconnect Cable
LNF-320	Low Noise Filter
RM-134	Single Rack Mounting Kit
RM-135	Dual Rack Mounting Kit

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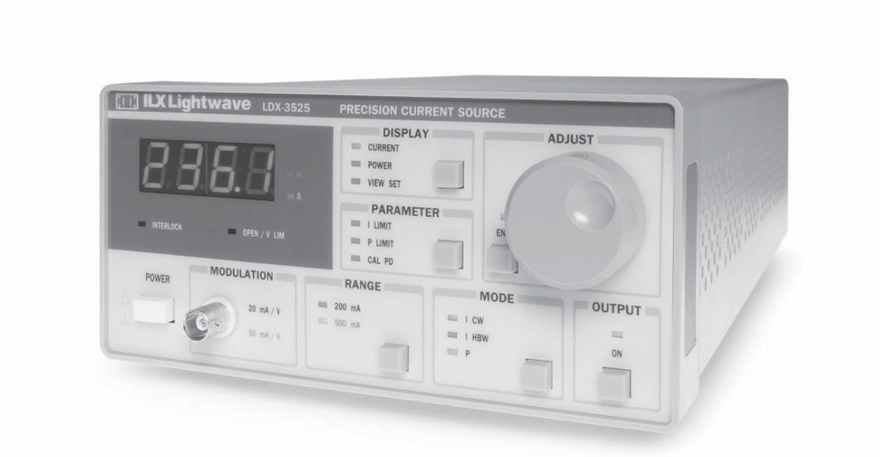
Product Features

- Low cost microprocessor controlled laser diode drivers
- High stability, low noise current output specifically for laser diodes
- Three models with dual current ranges up to 6A
- Constant current and constant power operating modes
- Analog modulation input to 500 kHz
- Closed-case calibration

The LDX-3500 Series Laser Diode Drivers are a family of low-cost microprocessor-based precision instruments specifically designed for driving low to high power laser diodes. Each driver provides a low noise, high-stability current output for precise control of laser diodes.

The LDX-3500 Series Laser Diode Drivers consists of three family members with dual current ranges of 200/500 mA (LDX-3525), 1000/3000 mA (LDX-3545), and 2000/6000 mA (LDX-3565), covering a wide range of laser diode testing and control applications. In addition to precision current controk, the LDX-3500 Series Drivers are loaded with standard features including PD current measurement for constant power control, analog modulation for power and wavelength tuning, and an analog output for remote monitoring.

Futhermore, all of ILX Lightwave's proven laser diode protection strategies are designed into each model, which include adjustable current limits, intermittent contact protection, shorting relays and control and power line transient protection.



Features and Performance You Can Count On

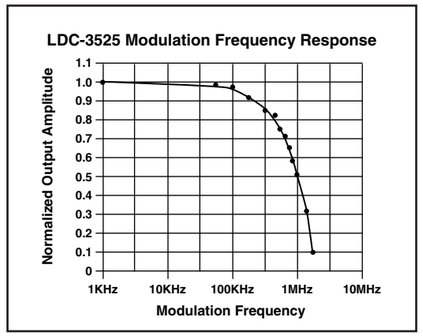
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LDX 3500 Series

Precision Laser Diode Drivers

By combining state-of-the-art current source topology, useful features, and unbeatable laser protection, the LDX-3500 Series Laser Diode Drivers have raised value to a new level. The LDX-3525 is designed for accurate control of low-current laser diodes with a dual-range 200/500 mA output. For medium- and high-power laser diodes, the LDX-3545 drives up to 1/3 A, while the LDX-3565 offers a 2/6 A current source. So there's an LDX-3500 Series Laser Diode Driver to meet your most demanding application.



Each of the 3500 Series Current Sources feature external modulation capability with clean, monotonic transfer functions. (LDX-3525 data shown).

State-of-the-art topology provides a new dimension in control

At the heart of the LDX-3500 Series Drivers is an advanced current source operating in your choice of constant optical-power mode or one of two constant current modes. The proven ILX Lightwave Constant Current design delivers uncompromising laser protection with low noise/high stability performance. Temperature coefficients are also minimized — an important consideration especially if you work in adverse conditions.

What's more, outputs are fully-isolated and floating, allowing you maximum flexibility to configure your setup however your needs require for varying laser diode package configuration.

A choice of operation modes puts you in the driver's seat

With the LDX-3500 Series Laser Diode Drivers, you can easily control the current to your laser diode in one of three modes:

(1) Constant-Current CW
(2) Constant-Current, High-Bandwidth
(3) Constant Optical Power.

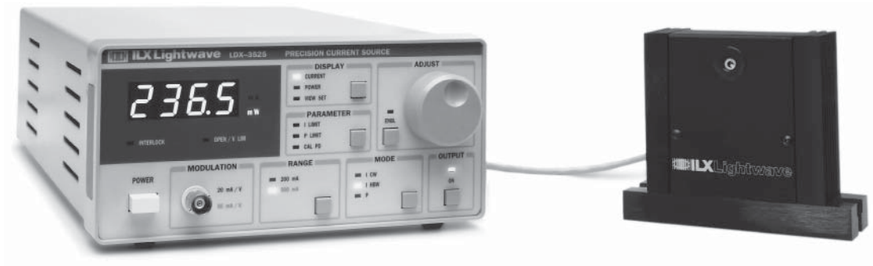
The "Constant-Current CW" mode offers lowest-noise performance during CW operation. Or, if your application requires modulation control for power or wavelength tuning, you'll find the "High-Bandwidth" mode useful. It allows the full bandwidth of the external modulation port to be utilized, while maintaining low-noise output.

For true versatility, the modulation port is implemented as a differential input. It's advanced topology ensures a monotonic transfer function — resulting in a linear response without peaking or instabilities.

If your application requires constant optical power, the "Power" mode allows you to use the photocurrent from the laser's rear-facet monitor in a feedback control loop to the laser drive current. Best of all, you can program the instrument to display the laser's output power once you've entered the photodiode's responsivity.

Advanced, proven laser protection lets you work worry-free

ILX Lightwave has taken the worry out of driving your laser with our advanced laser protection features. The LDX-3500 Series Drivers incorporate an output shorting switch which provides a safe and convenient method of switching the output off and on during operation. Also, adjust current limits, AC line filters, transient suppression, and a double-shielded transformer provide the best protection available.



High-value precision current control.

The LDX-3500 Series Sources are tested for laser protection against industry-standard lightning strike simulations.*

Our exclusive protection against "intermittent open contact" is also provided — if the instrument senses an open circuit, the output will be immediately shut down and the appropriate fault indicator will flash.

During AC power-up, your laser is protected from current transients by the careful turn-on sequencing and redundant output shorting circuits. When the output is turned on, the slow-start circuit gradually opens the shorting circuits, allowing current to be diverted to the laser.

"Fixed barrier" current limits

In addition to the normal control modes, the outputs of the LDX-3500 Series Drivers are bound by fully-independent current limits. An exclusive "clamping" topology prevents the limits from being exceeded under any condition — even under current modulation. In pulse mode, the output can also be bound by an optical power limit setting.

Convenient features make your work easier

The intuitive front panels of the LDX-3500 Series Laser Diode Drivers are designed for quick and easy operation. Parameters are logically grouped together without confusing multifunction keys. Informative error indicators let you resolve system problems quickly.

The LDX-3500 Series Drivers utilize microprocessor control, so all instrument settings are preserved during shutoff. The adjust knob enable switch lets you "lockout" accidental adjustments. And since the adjust knob is digital, you'll avoid inaccuracies associated with analog adjust methods.

Closed-case calibration makes the LDX-3500 Sources service-free

The LDX-3500 architecture simplifies routine maintenance, since calibration can be performed without removing the instrument cover. The instrument is placed in calibration mode by pressing a unique combination of front panel buttons. By adjusting the front panel control knob, the selected display will accurately read the values of the appropriate calibration constants. Calibration data is automatically stored in nonvolatile memory.

* IEC 801-5 and ANSI/IEEE C62.41 standard 200-500V waveforms simulate indirect lightning strike and industrial load switching transients on input power line.

Always take appropriate anti-static precautions and use extreme care when handling laser diodes. For more information, request ILX Application Notes #3, "Laser Diode Protection Strategies".

LDX 3500 Series

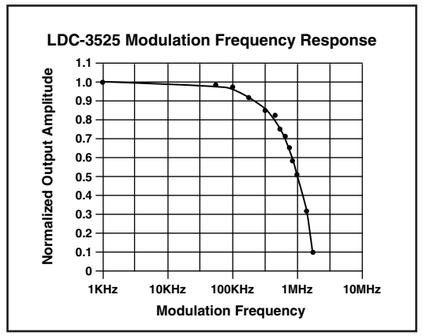
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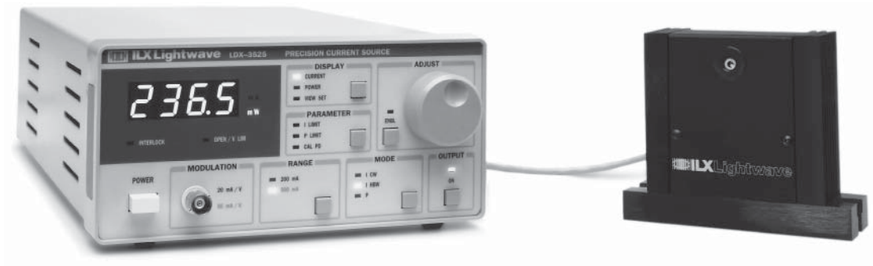
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LDX 3500 Series

Precision Laser Diode Drivers

Specifications

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CURRENT OUTPUT[1]			
Output Current Range:	200/500 mA	1000/3000 mA	2000/6000 mA
Setpoint Resolution:	50/125 µA	250/750 µA	500 µA /1.5 mA
Setpoint Accuracy (% of FS):	±0.1% (±.2 /±.5 mA)	±0.1% (±1 /±3 mA)	±0.1% (±2 /±6 mA)
Compliance Voltage:	7 V max	6.5 V	5 V
Temperature Coefficient:	<50 ppm/°C	<50 ppm/°C	<50/<100 ppm/°C
Short-Term Stability (1 hr):[2]	<20 ppm	<20 ppm	<20 ppm
Long-Term Stability (24 hr):[3]	<50 ppm	<50 ppm	<50 ppm
Noise and Ripple (rms)[4]			
High Bandwidth Mode:	<4/<4 µA	<15/<20 µA	<50/<100 µA
CW Mode:	<2/<2 µA	<8/<8 µA	<15/<30 µA
Transients			
Operational:[5]	<1/<1 mA	<2/<5 mA	< 5/<15 mA
Power-line Induced:[6]	<5/<5 mA	<10/<10 mA	<10/<40 mA
CURRENT LIMIT SETTINGS			
Range:	0– 202.0/0–505.0 mA	0–1010/0–3030 mA	0–2020/0–6060 mA
Resolution:	1/2 mA	4/12 mA	8/24 mA
Accuracy:	±1% FS	±1% FS	±1% FS
PHOTODIODE FEEDBACK			
Type: Differential	Differential	Differential	Differential
Reverse Bias:	0–5 V, adjustable	0–5 V, adjustable	0–5 V, adjustable
Photodiode Current Range:	5–5000 µA	5–9999 µA	0.01–25 mA
Output Stability: [7]	±0.02%	±0.02%	±0.02%
Setpoint Accuracy (% of FS):	±0.1%	±0.1%	±0.1%
Power Modulation BW:	1 kHz	1 kHz	1 kHz
ANALOG MODULATION			
Input:	0–10 V, 10 kΩ	0–10 V, 10 kΩ	0–10 V, 10 kΩ
Transfer Function:	20/50 mA/V	100/300mA/V	200/600 mA/V
Transfer Function Accuracy:	±10%	±10%	±10%
Bandwidth (3dB)[8]			
High Bandwidth Mode:	0–500/0–150 kHz	0–200/0–50 kHz	0–100/0–50 kHz
CW Mode:	0–100/0–100 Hz	0–100/0–100 Hz	0–80/0–80 Hz
ANALOG OUTPUT			
Output Voltage:	0–10 V	0–10 V	0–10 V
Transfer Function (±5% of FS):	20/50 mA/V	100/ 300 mA/V	200/600 mA/V
CONNECTORS			
Current Source Output:	9-pin, D-sub female	9-pin, D-sub female	9-pin, D-sub female
Photodiode Input, Mod Input, Analog Output:	BNC	BNC	BNC
Chassis Ground:	4 mm Banana Jack	4 mm Banana Jack	4 mm Banana Jack
MEASUREMENT (DISPLAY)			
Display Type:	4 digit green LED	4 digit green LED	4 digit green LED
Output Current Range:	0–200.0/0–500.0 mA	0–999.9/0–3000 mA	0–2000/0–6000 mA
Output Current Resolution:	0.1/0.1 mA	0.1/1.0 mA	1.0/1.0 mA
Output Current Accuracy:[9]	±0.1% of FS	±0.1% of FS	±0.1% of FS
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Photodiode Responsivity Resolution:[10]	0.001 mA/mW	0.001 mA/mW	0.001 mA/mW
Optical Power Range:	0–500.0 mW	0–3000 mW	0–6000 mW
Optical Power Resolution:	0.1 mW	1 mW	1 mW

GENERAL

Power Requirements, VAC (50–60Hz):	95–125, 210–250
Size (HxWxD):	88 mm x 185 mm x 304 mm 3.5"x 7.3"x12"
Weight:	2.7 kg (6.0 lbs)
Operating Temperature:	0 to 40°C to 70°C
Storage Temperature:	–40°C to 70°C
Humidity:	<85% relative, noncondensing
Laser Safety:	Keyswitch, Interlock, Output Delay (meets 21 CFR 1040.10),all models

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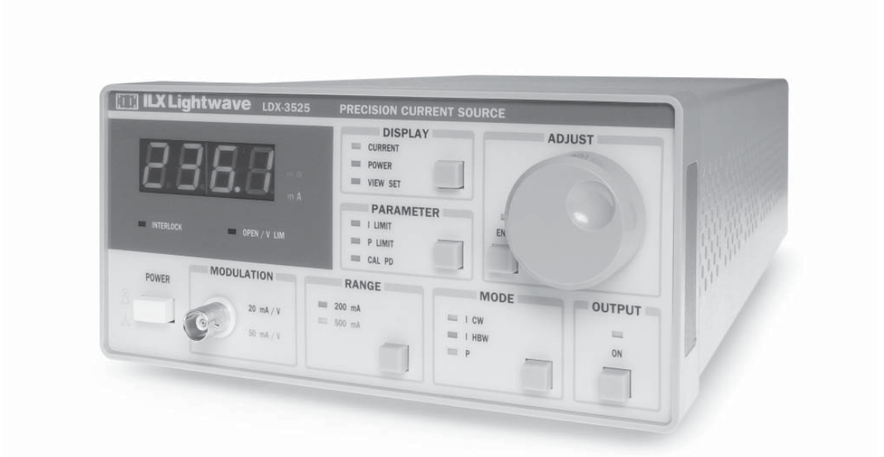
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We buy equipment

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