



## LASER DIODE ANALYZER

### Features:

- Integrated Temperature Controller
- Compact Plug-and-Play Laser Diode Analyzer
- Fast and accurate LIV curve generation with 0.1 mA resolution
- 15-bit power resolution
- Laser diode drive current up to 500 mA
- 3 W output temperature controller
- Password protection, hardware interlock and overcurrent shut-off circuitry for safety
- Built-in smart driver for diode pinout auto detection and temperature control
- Touchscreen control and accompanying Windows software

### Applications:

- Laser Diode Characterization
- Laser Diode Quality Control
- Laser Source Calibration



### Product Description:

This low cost, compact and standalone laser diode analyzer provides quick and versatile laser diode characterization and analysis. The laser diode analyzer is well suited for complete laser diode parametric analysis. The unit features a high resolution LIV (light, current, voltage) measurement system, providing all main laser diode parameters including threshold current and slope efficiency. The setup and measurement takes only a few seconds.

The measured parameters are displayed on a color touch screen, and the data can be downloaded to any host computer for further processing and analysis through a built-in USB interface. The unit features a built-in smart driver that will automatically detect the laser diode pinout. The user can select to operate the laser diode under test in either auto-current or auto-power control modes. The integrated TEC controller maintains your diode at its operating temperature, ensuring accurate and repeatable measurements.

The smart laser diode analyzer comes with multiple features for safe and accurate measurements. These features include current limit protection, automatic pinout detection, sensor range checks and manager passcode level to prevent any accidental changes of the preset settings that could otherwise harm the laser diode under test, or invalidate the results. External interlocks can be connected to disable the laser diode in response to safety concern situations.

Each unit is provided as a set that includes all required accessories for direct plug-and-play operation. The kit includes a calibrated optical power meter head and a thermally controlled laser diode holder for 5.6 mm package laser diodes (holders for 3.8 mm and 9 mm packages are offered separately). A simple sliding mechanism allows easy laser diode replacement. Special laser diode adapters can be customized upon request for any laser diode package.

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**Part Number:** LDA-100

**Technical Specifications:**

Parameters		Units	Values
Setpoint Resolution :		mA	0.1
Setpoint Accuracy:		%	±0.05%
Laser Diode Compliance Voltage:		V	0.0–8.0
Photodiode Current Range:		µA	0–3600
Photodiode Current Resolution:		µA	0.1
TEC Current Range:		A	1
TEC Voltage Range:		V	±8.00
TEC Output Power:		W	3
Temperature Control Range:		°C	10-50
Operating Rel.Humidity:		%	<85%, non-condensing
Size	Analyzer Only	mm (inches)	110x63x30 (4.3x2.5x1.2)
	Analyzer + Accessories	mm (inches)	110x115x45 (4.3x4.5x1.8)
Weight	Analyzer Only	g (lb)	300 (0.66)
	Analyzer + Accessories	g (lb)	1000 (2.20)



**Accessories Included:**

- Optical Powermeter
- Thermally Controlled Laser Head for 5.6 mm laser diode packages
- Quick-Change Sliding Baseplate for Powermeter and Laser Head
- 12 V DC, 1 A Power Supply
- USB Cable
- Operating software compatible with Microsoft Windows