



Multiple colors	USB connectivity	Lab Power Supply	CW, ANALOG, PWM	Semiconductor Laser
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Delta Spectrum LAB

Delta Spectrum Lab Lasers offer excellent beam quality and output powers from 5mW to 6000mW. Each laser features manually adjustable output power, TEC cooling and digital or analog input modulation. Multiple color and wavelength options are available. Delta Spectrum Lasers are ideal for research, flow cytometry, microscope illumination and industrial alignment applications. The laser control box integrates a powerful power supply unit and our own laser control board containing a fast analog laser driver and digital TEC control. The control box supervises the laser operation and responds to user input from the control panel. In emergency conditions, e.g. overheating, it cuts the power to the laser module preventing possible damage. The display on the control panel shows some important parameters such as the working temperatures, the modulation mode and the intensity of the laser beam. As an option, USB connectivity to a computer, a tablet or a smartphone is offered.

FEATURES

- Analog modulation
- OLED display indicator
- Precise optical power adjustment
- Customized projection profile
- Beam Profiles: Dot, DOE, Line, Circle
- DB-9 Laser Head Connector

APPLICATIONS

- Machine Vision
- Positioning and Centering
- Microscopy Applications
- Industrial Applications

Technical specifications

Output Power (mW):	≤5, ≤50, ≤80, ≤100, ≤120, ≤200, ≤500, ≤1000, ≤6000mW
Wavelength (nm):	405nm, 445nm, 462nm, 505nm, 515nm, 520nm, 530nm, 637nm, 638nm, 808nm, 940nm, 1064nm
Wavelength Tolerance (nm):	±5
Transverse Mode	Single Mode and Multimode
Beam Divergence (mRad):	0,7 ~ 1,5 (full angle)
Optical Specifications:	Manual Focus, Collimator Lens
Projection Profile (Can be equipped):	Dot, Circle (60°), DOE element, Powell Lens (30°-60°-90°-customized)
Beam Height from Base Plate (mm):	30
Beam Diameter (mm):	2.8mm ~ 5mm
Laser Class:	III R, III B, IV (depends on the laser optical power)
Color	Violet, Red, Green, Blue, IR
Laser Type:	Semiconductor
Laser Cooling:	TEC
Protection:	Overheat Protection
Safety Function:	Key Lock
Indicator:	Laser Emission and Power Indicator
Modulation Frequency (kHz):	0 – 100 – 200 – 500
Operation Mode:	CW / ANALOG / PWM
Operation Current:	User POT-Adjustable, (is indicated in %)
Operation Temperature:	10 – 45 °C
Storage Temperature	-10 – 45 °C
Mean Time to Failure MTF (hours):	12,000



Laser Head Size

