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Coherent® BioRay™ Laser 1264214 | 450nm, 50mW

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A\$4,090^{.00}

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Note: This item requires accessories for use | [Learn More](#)

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General

5 WMax

Heat Dissipation of Laser Head:

Coherent®

Manufacturer:

Diode

Type of Laser:

IIIb	Laser Class - CDRH:
1264214	Model Number:
Physical & Mechanical Properties	
<70	Weight (g):
<10	Pointing Stability (μrad/°C):
95.00	Length (mm):
Optical Properties	
TEM ₀₀	Spatial Mode:
450.00	Wavelength (nm):
<1.5	Mode Quality, M ² :
±10	Wavelength Tolerance (nm):
<3	Output Beam Angle (mrad):
±5	Beam Waist Position at Exit (mm):
2.4 x 0.8	Beam Diameter (mm):
0.4 x 0.8	Beam Divergence (mrad):
Blue	Color:
Electrical	
160 max @ 25°C	Operating Current (mA):
50	Output Power (mW):
<2% (8 hours, ±3°C)	Power Stability (%):
Max Analog: 500 Rise Time (10% to 90%): <500 nsec Fall Time (10% to 90%): <500 nsec	Modulation Frequency (kHz):
Level 4	ESD Protection:
20 Hz - 20 MHz <0.5% 20 Hz - 20 MHz, peak-to-peak: <1%	RMS Noise:
Hardware & Interface Connectivity	
Power Supply Required and Sold Separately. USA: #86-878 Europe: #86-878 Japan: #86-878 Korea: #86-878 China: #86-878	Power Supply:
Free Space	Output Type:
5 - 24	Input Voltage (V):
Threading & Mounting	
Included	Mount:
Environmental & Durability Factors	
15 to 40	Operating Temperature (°C):
-20 to +60	Storage Temperature (°C):
30 G	Shock Rating:
Regulatory Compliance	
Exempt	RoHS 2015:

Contains SVHC(s)	Reach 224:
View	Certificate of Conformance:

Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- External Focus with up to 100mW Output Power
- Auto Scaling Input Power 5 - 24VDC with Reverse Polarity Protection
- Built-In Microcontroller for Fault Monitor
- [Coherent® StingRay™ Developer's Kit](#) also available

Coherent® StingRay™ and BioRay™ Laser Diode Modules are ideal for a variety of alignment, machine vision, and biomedical applications. They are available in a wide range of output powers, wavelengths, and fan angles. High precision optical components and sophisticated drive electronics provide power and control to your application, reducing signal-to-noise ratios and increasing measurement speed. Coherent® StingRay™ and BioRay™ Laser Diode Modules are designed with a flat top power distribution across the beam profile for consistency in line projection widths.

Note: For CDRH certified systems (Class IIIb), [#86-878](#) Laser Controller and additional external voltage source (0.5–5V) with BNC connector is required.