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

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1

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S\$3,579^{.00}

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

Product Downloads

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:

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

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.

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](#).