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Coherent® StingRay™ 45° Fan Angle

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Stock #86-870 **1 In Stock**

- 1 +

€810^{,00}

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Volume Pricing	
Qty 1+	€810,00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- User Manual:pdf
- Software
- eDrawing:eprt
- EO Spec Sheet

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

General

Manufacturer: Coherent®

Type of Laser: Diode

Laser Class - CDRH: IIIb

Model Number: 1231512

Physical & Mechanical Properties

Pointing Stability (µrad/°C): <10

Length (mm): 97.80

Optical Properties

Spatial Mode: TEM₀₀

Wavelength (nm): 660.00

Mode Quality, M²: <1.5

Wavelength Tolerance (nm): ±5

Color: Red

Fan Angle (°): 45.00

Electrical

Output Power (mW): 50

Modulation Frequency (kHz): Max Analog: 500

Hardware & Interface Connectivity

Power Supply: Power Supply Required and Sold Separately:
USA: [#86-878](#)
Europe: [#86-878](#)

Electrical Leads/ Pin Connections: Hirose HR-10P-12S

Japan: #86-878
Korea: #86-878
China: #86-878

Output Type: Free Space

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Environmental & Durability Factors

Operating Temperature (°C): -10 to +50

Storage Temperature (°C): -20 to +60

Regulatory Compliance

RoHS 2015: Exempt

Reach 224: Contains SVHC(s)

Certificate of Conformance: View

Need different specs or modifications?

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

For CDRH certified systems, class IIIb lasers require **#86-878**. These lasers include a Hirose connector and flying lead terminals for compatibility with a variety of power supplies.

- 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.

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	C-Mount Accessory Mount for #47-274		#56-869	€73,50 Volume Pricing Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	Laser Diode Fixed Beam Expander: Dovetail Adapter		#58-275	€48,75 Volume Pricing Request Quote	4 In Stock <input type="text" value="1"/>
MORE+	12V Power Supply, Interchangeable Plugs		#21-075	€59,50 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	Coherent® 1263030 Laser Controller with CDRH Key Lock + Power Supply		#86-878	€520,00 Request Quote	4 In Stock <input type="text" value="1"/>

	Title	Compare	Stock Number	Price	Buy
MORE+	Coherent® StingRay™ 1222896 Laser Diode Module		#86-879	€158,00	CONTACT US 1
MORE+	Coherent® StingRay™ 1254118 514nm				1 In Stock 1
MORE+	Coherent® StingRay™ 1254120 514nm			Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1277520 514nm, 30° Fan		#89-586	€351,00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1265421 640nm, 5mW, 30° Fan		#89-575	€348,00 Request Quote	2 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1276937 640nm, 5mW, 60° Fan		#89-580	€348,00 Request Quote	CONTACT US 1
MORE+	Coherent® StingRay™ Projection Head 1277523 640nm, 5mW, 30° Fan		#89-587	€351,00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1276950 640nm, 35mW, 30° Fan		#89-576	€348,00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1276954 655nm, 5mW, 30° Fan		#89-577	€348,00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1276956 655nm, 5mW, 60° Fan		#89-581	€348,00 Request Quote	2 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1277530 655nm, 5mW, 30° Fan		#89-588	€351,00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1235099 785nm, 30° Fan		#89-578	€348,00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1277549 785nm, 30° Fan		#89-589	€351,00 Request Quote	1 In Stock 1
MORE+	Coherent® Multimode SMA Fiber Adapter 1272906		#33-277	€254,00 Request Quote	1 In Stock 1
MORE+	Coherent® Multi Axis Mount 1280838 Multi Axis Mount		#33-278	€397,00 Request Quote	1 In Stock 1
MORE+	Hirose/Bare-Leads Breakout Cable		#24-410	€54,00 Request Quote	2 In Stock 1

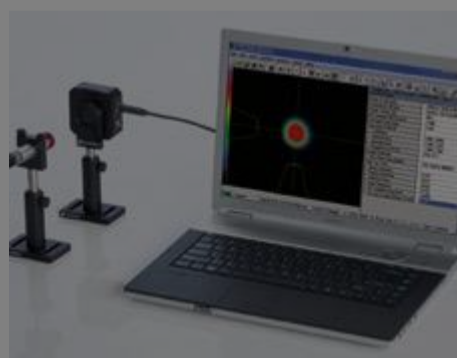
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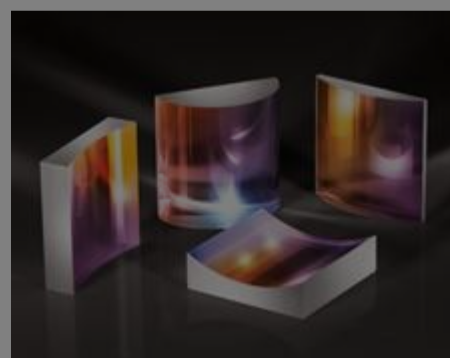
Related Products



Coherent® LaserCheck™



Coherent® Lasercam™ Beam Profiler



Cylinder Lenses



#18-291 - E-Series 19.1mm ID Adapter
€24,00

Qty

Frequently Purchased Together



#33-303 - 12mm UC Series Fixed Focal Length Lens
€260,00

Qty



€260,00

Qty



655nm, 5mw
€402,00

Qty



#86-879 - Coherent® StingRay™ 1222896 | Laser Diode Module Mount
€158,00

Qty

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- Published Article
- Scientific Paper

TECHNICAL TOOL

Gaussian Beams Calculator

APPLICATION NOTE

Gaussian Beam Propagation

APPLICATION NOTE

Common Laser Types

VIDEO

Understanding Lasers and How They're Used Every...

FAQ

Can a laser beam be seen from the side?

FAQ

What factors are involved in how well I can see a laser...

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