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# Coherent® StingRay™ 30° Fan Angle

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Stock #86-872 **2 In Stock**

- 1 +

€788<sup>,00</sup>

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Volume Pricing	
Qty 1+	€788,00 each
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Prices shown are exclusive of VAT/local taxes

### Product Downloads

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

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

## General

<b>Manufacturer:</b>	Coherent®	<b>Type of Laser:</b>	Diode
<b>Laser Class - CDRH:</b>	IIIb	<b>Model Number:</b>	1231514

## Physical & Mechanical Properties

<b>Pointing Stability (µrad/°C):</b>	<10	<b>Length (mm):</b>	97.80
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## Optical Properties

<b>Spatial Mode:</b>	TEM <sub>00</sub>	<b>Wavelength (nm):</b>	785.00
<b>Mode Quality, M<sup>2</sup>:</b>	<1.5	<b>Wavelength Tolerance (nm):</b>	±19
<b>Color:</b>	Infrared	<b>Fan Angle (°):</b>	30.00

## Electrical

<b>Output Power (mW):</b>	35	<b>Modulation Frequency (kHz):</b>	Max Analog: 500
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## Hardware & Interface Connectivity

<b>Power Supply:</b>	Power Supply Required and Sold Separately: USA: <b>#86-878</b> Europe: <b>#86-878</b>	<b>Electrical Leads/ Pin Connections:</b>	Hirose HR-10P-12S
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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
<a href="#">MORE+</a>	C-Mount Accessory Mount for #47-274		<b>#56-869</b>	€73,50 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	2 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Laser Diode Fixed Beam Expander: Dovetail Adapter		<b>#58-275</b>	€48,75 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	4 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	12V Power Supply, Interchangeable Plugs		<b>#21-075</b>	€59,50 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>
<a href="#">MORE+</a>	Coherent® 1263030   Laser Controller with CDRH Key Lock + Power Supply		<b>#86-878</b>	€520,00 <a href="#">Request Quote</a>	4 In Stock <input type="text" value="1"/>

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

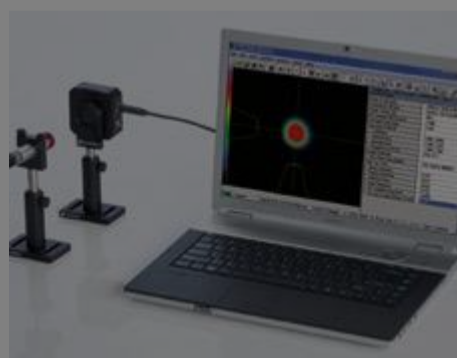
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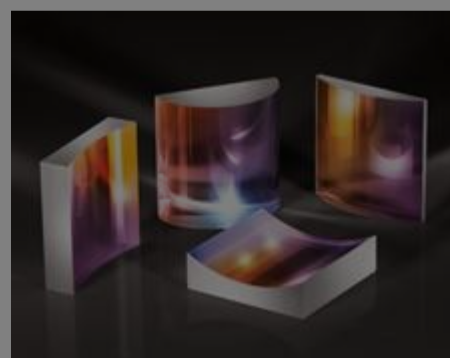
### Related Products



Coherent® LaserCheck™



Coherent® Lasercam™ Beam Profiler



Cylinder Lenses



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

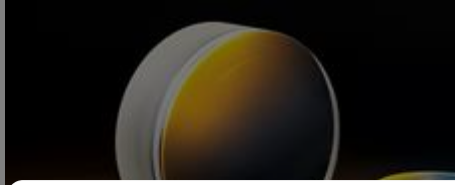
Qty

### Frequently Purchased Together



#47-012 - 25mm NIR, 50R/50T, Non-Polarizing Cube Beamsplitter  
€312,00

Qty



# V  
€136,00

Qty



Qty



#54-630 - 15mm Length, C-Mount Extension Tube  
€36,75

Qty

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- Technical Tool
- Application Note
- Video
- FAQ
- Glossary
- 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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