

[« See all 64 Products in Family](#)
[All Products](#) / [Lasers](#) / [Laser Sources](#) / [Machine Vision Lasers](#) / [Coherent® StingRay™ and BioRay™ Laser Diode Modules](#)

Coherent® StingRay™ Laser Diode Module 1253669 | 640nm, 10mW

[See More by Coherent®](#)

 Stock #87-523 **2 In Stock**

 - 1 + **£422^{.00}**
[ADD TO CART](#)


Volume Pricing	
Qty 1+	£422.00 each
Need More?	Request Quote

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: 1253669

Physical & Mechanical Properties

Pointing Stability (µrad/°C): <10	Length (mm): 95.10
--	---------------------------

Optical Properties

Spatial Mode: TEM ₀₀	Wavelength (nm): 640.00
Mode Quality, M²: <1.5	Wavelength Tolerance (nm): ±6
Color: Red	

Electrical

Output Power (mW): 10	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

Input Voltage (V): 5 - 24 DC

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](#).

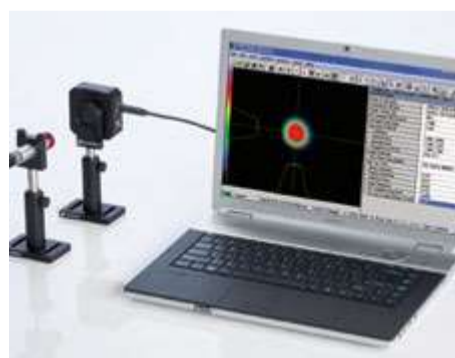
	Title	Compare	Stock Number	Price	Buy
MORE+	C-Mount Accessory Mount for #47-274		#56-869	£58.80 Volume Pricing Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	Laser Diode Fixed Beam Expander: Dovetail Adapter		#58-275	£39.00 Volume Pricing Request Quote	4 In Stock <input type="text" value="1"/>
MORE+	12V Power Supply, Interchangeable Plugs		#21-075	£47.60 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	Coherent® 1263030 Laser Controller with CDRH Key Lock + Power Supply		#86-878	£416.00 Request Quote	4 In Stock <input type="text" value="1"/>

	Title	Compare	Stock Number	Price	Buy
MORE+	Coherent® StingRay™ 1222896 Laser Diode Module Mount		#86-879	£126.40 Request Quote	CONTACT US 1
MORE+	Coherent® StingRay™ Projection Head 1254118 514nm, 30° Fan		#89-574	£278.00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1254120 514nm, 60° Fan		#89-579	£278.00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1277520 514nm, 30° Fan		#89-586	£281.00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1265421 640nm, 5mW, 30° Fan		#89-575	£278.00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1276937 640nm, 5mW, 60° Fan		#89-580	£278.00 Request Quote	CONTACT US 1
MORE+	Coherent® StingRay™ Projection Head 1277523 640nm, 5mW, 30° Fan		#89-587	£281.00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1276950 640nm, 35mW, 30° Fan		#89-576	£278.00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1276954 655nm, 5mW, 30° Fan		#89-577	£278.00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1276956 655nm, 5mW, 60° Fan		#89-581	£278.00 Request Quote	2 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1277530 655nm, 5mW, 30° Fan		#89-588	£281.00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1235099 785nm, 30° Fan		#89-578	£278.00 Request Quote	1 In Stock 1
MORE+	Coherent® StingRay™ Projection Head 1277549 785nm, 30° Fan		#89-589	£281.00 Request Quote	1 In Stock 1
MORE+	Coherent® Multimode SMA Fiber Adapter 1272906		#33-277	£204.00 Request Quote	1 In Stock 1
MORE+	Coherent® Multi Axis Mount 1280838 Multi Axis Mount		#33-278	£318.00 Request Quote	1 In Stock 1
MORE+	Hirose/Bare-Leads Breakout Cable		#24-410	£44.00 Request Quote	2 In Stock 1

Related Products



Coherent® LaserCheck™



Coherent® Lasercam™ Beam Profiler



Cylinder Lenses



#18-291 - E-Series 19.1mm ID Adapter
£19.20

Qty

Frequently Purchased Together



#86-878 - Coherent® 1263030 | Laser Controller with CDRH Key Lock + Power Supply
£416.00

Qty



#46-145 - 20X Mitutoyo Plan Apo Infinity Corrected Long WD Objective
£2,152.00

Qty



#55-743 - C-Mount Male to Mitutoyo (M26) Female Step-Up Adapter
£41.60

Qty



#86-849 - Coherent® StingRay™ Laser Diode Module 1231491 | 640nm, 5mW
£324.00

Qty

Resources

Media Type

- 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...

[View More](#)