

## Bench Mounted Laser Detection Head IR



Bench Mounted Laser Detection Head IR, #55-298

Stock #55-298 **14 In Stock**

⊖ 1 ⊕ ₹20,880

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### Product Downloads

### General

Detection Head **Type:**

**Typical Applications:**  
808nm, 820nm, 830nm, 880nm, 960 - 980nm Laser Diodes, Nd:YAG, 1550nm Telecommunications

### Physical & Mechanical Properties

35.00 **Active Area Diameter (mm):**

70.00 **Outer Diameter (mm):**

8.00 Thickness (mm):

## Optical Properties

**Wavelength:**  
IR

**Emission Color:**  
Green (550nm), other peaks at Red (673nm) and Blue (400nm)

**Stimulation Range:**  
Band 1: 790 - 840nm  
Band 2: 870 - 1070nm  
Band 3: 1500 - 1590nm

**Minimum Stimulation, Pulsed:**  
250 kW/cm<sup>2</sup> @ 1064nm, 7ns, 10Hz

## Electrical

**Persistence (Stimulation Removed):**  
800 μs

**Minimum Stimulation, Continuous:**  
<2 μW/cm<sup>2</sup> @ 808nm  
<175 nW/cm<sup>2</sup> @ 960nm  
<100 μW/cm<sup>2</sup> @ 1550nm

**Maximum Stimulation, Continuous:**  
100 W/cm<sup>2</sup> @ 1064nm

**Maximum Stimulation, Single Pulse:**  
35 MW/cm<sup>2</sup> @ 1064nm, 7ns

## Regulatory Compliance

**Reach 191:**  
[Compliant](#)

**RoHS 2015:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

**Country of Origin:**  
United Kingdom

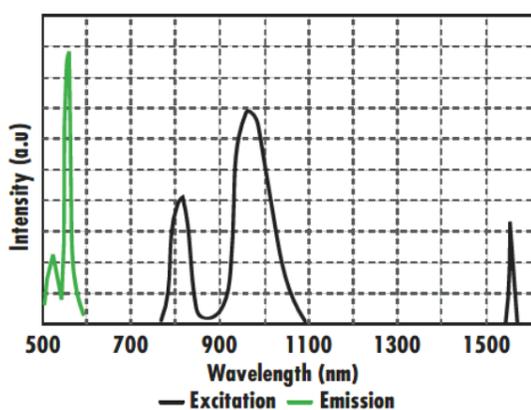
**Importer:**  
Edmund Optics India Private Limited

## Product Details

- Full Spectrum Coverage: UV, VIS, IR Series
- 3 Mounted Formats Have Safe, Non-reflective Encapsulation
- Unique, No Pre-charge for IR Detection and No Fading During Use
- Flexibility for Either Transmission or Reflective Viewing

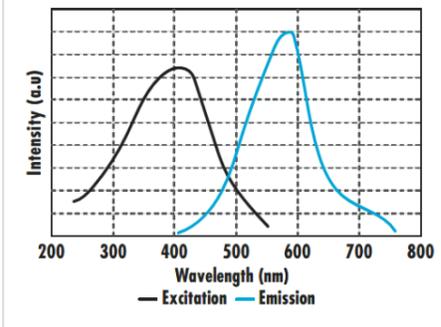
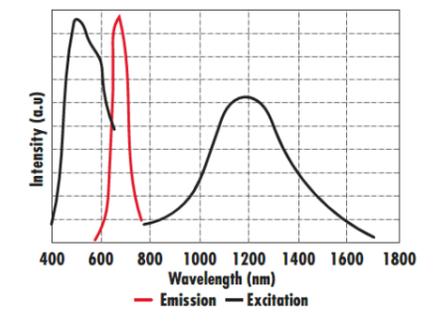
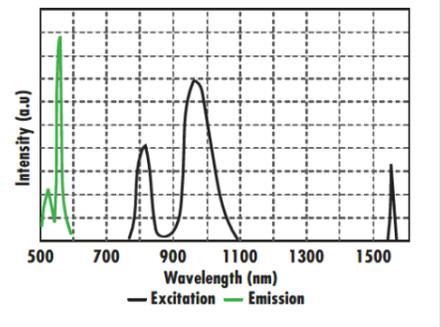
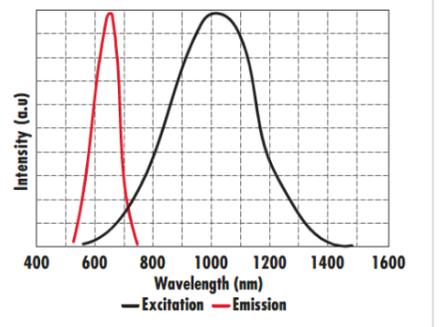
Laser Detection Products offer UV, visible, and IR laser users' greater performance and safety. They reduce problems associated with beam visualization, profiling, and alignment in many applications. Each range is available in three formats. Laser Detection Products' laminated credit card style is for low-power sources and reflective viewing only. The 25mm disk and clip-on wand style is used when frequent component positioning is required. The removable disk is positional at an optics location to enable precise alignment, while the wand format permits handling into the beam path. The optical bench-mountable head format has a large active area and ¼-20 threaded mounting for standard English post/post holder integration.

## Technical Information



IR Detection Products

Laser Detection Products				
	UV	VIS	IR	NIR
Stimulation Range	250 - 550nm	Band 1: 400 - 640nm Band 2: 800 - 1700nm	Band 1: 790 - 840nm Band 2: 870 - 1070nm Band 3: 1550nm	700 - 1400nm

Typical Applications	HeCd, Ar-Ion, tripled Nd:YAG, etc.	Ar-Ion, HeNe, HeCd, Nd:YAG, etc.	808nm, 820nm, 830nm, 880nm, 960 - 980nm Laser Diodes, Nd:YAG, 1550nm telecommunications	Nd:YAG, Fiber Laser
Emission Color	Yellow (580nm), Broadband (490nm - 700nm)	Orange/Red (655nm), Broadband (600 - 730nm)	Green (550nm), other peaks at Red (673nm) and Blue (400nm)	Orange/Red (655nm)
Persistence (Stimulation Removed)	6 s - 4 mins (dependent on ambient light)	<b>Visible:</b> 0.5 - 3 s (dependent on ambient light) <b>IR:</b> <0.5 s	800µs	<50 ms
Continuous (Minimum Stimulation)*	<1nW/cm <sup>2</sup> @ 450nm & 365nm	<1nW/cm <sup>2</sup> @ 450nm <25µW/cm <sup>2</sup> @ 950nm	<2µW/cm <sup>2</sup> @ 808nm <175 nW/cm <sup>2</sup> @ 960nm <100µW/cm <sup>2</sup> @ 1550nm	8µW/cm <sup>2</sup> @ 1064nm
Pulsed (Minimum Stimulation)*	<8W/cm <sup>2</sup> @ 337nm, 4ns, 20Hz, <40W/cm <sup>2</sup> @ 337nm, 4ns, 1Hz	2 kW/cm <sup>2</sup> @ 1064nm, 7ns, 10Hz	250 kW/cm <sup>2</sup> @ 1064nm, 7ns, 10Hz	N/A
Continuous (Maximum Stimulation)	100W/cm <sup>2</sup> @ 512nm (all formats)	100W/cm <sup>2</sup> @ 512nm (all formats)	100W/cm <sup>2</sup> (all formats)	100W/cm <sup>2</sup> @ 1064nm (estimated)
Single Pulse (Maximum Stimulation)	130MW/cm <sup>2</sup> @ 337nm, 4ns (card only) 850MW/cm <sup>2</sup> @ 337nm, 4ns (other formats) 60MW/cm <sup>2</sup> @ 1064nm, 7ns (all formats)	130MW/cm <sup>2</sup> @ 337nm, 4ns (card only) 850MW/cm <sup>2</sup> @ 337nm, 4ns (other formats) 60MW/cm <sup>2</sup> @ 1064nm, 7ns (all formats)	35MW/cm <sup>2</sup> @ 1064nm, 7ns (all formats)	35MW/cm <sup>2</sup> @ 1064nm, 7ns (estimated)
				

\*Measured in darkened conditions