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Laser Detection Card IR

Laser Detection Card IR

Stock **#55-292** **20+ In Stock**

- 1 + **£86.40**

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Volume Pricing	
Qty 1-5	**£86.40** each
Qty 6-24	**£82.40** each
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SPECIFICATIONS

General

Type:
Card

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

Physical & Mechanical Properties

Dimensions (mm):
86 x 54

Size of Active Area (mm):
42 x 23

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^2 @ 1064nm, 7ns, 10Hz

Electrical

Persistence (Stimulation Removed):
800 µs

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

Maximum Stimulation, Continuous:
100 W/cm^2 @ 1064nm

Maximum Stimulation, Single Pulse:
35 MW/cm^2 @ 1064nm, 7ns

Regulatory Compliance

Reach 191:
Compliant

RoHS 2015:
Compliant

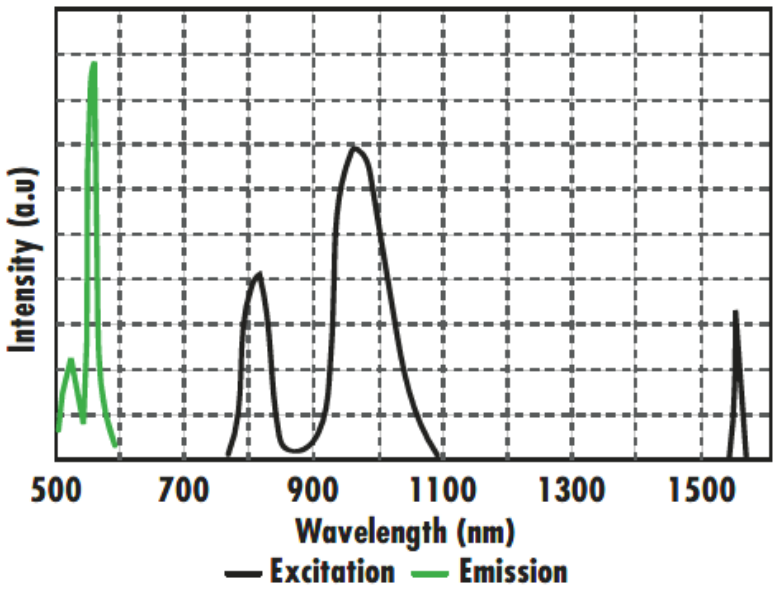
Certificate of Conformance:
View

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

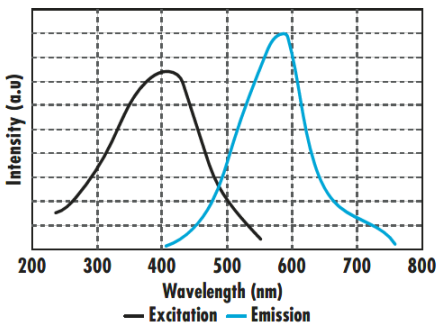
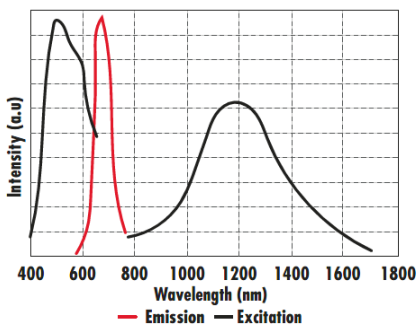
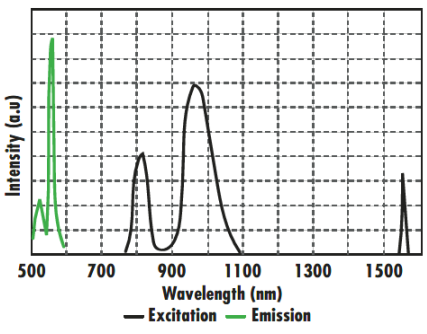
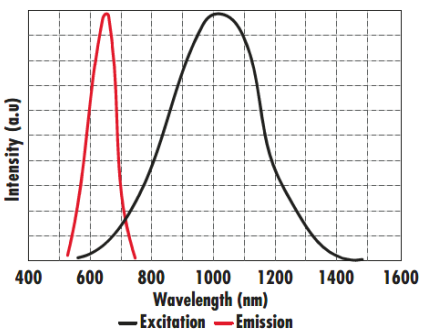
Laser Detection Products offer UV, visible, and IR laser users' greater performance and safety. They reduce problems associated with beam visualization, profiling, and alignment in many applications. Each range is available in three formats. Laser Detection Products' laminated credit card style is for 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 1: 790 - 840nm	700 - 1400nm
		Band 2: 800 - 1700nm	Band 2: 870 - 1070nm	

			Band 3: 1550nm	
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)	**Visible:** 0.5 - 3 s (dependent on ambient light) **IR:** <0.5 s	800µs	<50 ms
Continuous (Minimum Stimlation)*	<1nW/cm^2 @ 450nm & 365nm	<1nW/cm^2 @ 450nm <25µW/cm>^{2} @ 950nm	<2µW/cm>^{2} @ 808nm <175 nW/cm^2 @ 960nm <100µW/cm>^{2} @ 1550nm	8µW/cm^2 @ 1064nm
Pulsed (Minimum Stimulation)*	<8W/cm^2 @ 337nm, 4ns, 20Hz, <40W/cm^2 @ 337nm, 4ns, 1Hz	2 kW/cm^2 @ 1064nm, 7ns, 10Hz	250 kW/cm^2 @ 1064nm, 7ns, 10Hz	N/A
Continuous (Maximum Stimulation)	100W/cm^2 @ 512nm (all formats)	100W/cm^2 @ 512nm (all formats)	100W/cm^2 (all formats)	100W/cm^2 @ 1064nm (estimated)
Single Pulse (Maximum Stimulation)	130MW/cm^2 @ 337nm, 4ns (card only) 850MW/cm^2 @ 337nm, 4ns (other formats) 60MW/cm^2 @ 1064nm, 7ns (all formats)	130MW/cm^2 @ 337nm, 4ns (card only) 850MW/cm^2 @ 337nm, 4ns (other formats) 60MW/cm^2 @ 1064nm, 7ns (all formats)	35MW/cm^2 @ 1064nm, 7ns (all formats)	35MW/cm^2 @1064nm, 7ns (estimated)
				

**Measured in darkened conditions*