

LASER DETECTION CARD

- 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



These laser alignment phosphor products offer greater performance and safety to users of UV, visible, and IR lasers. They reduce problems associated with beam visualization, profiling and alignment in many applications. All ranges available in three formats. The 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 positionable at an optics location to enable precise alignment, while wand format permits handling into beam path. Optical bench-mountable head format has large active area and 1/4-20 threaded mounting for standard English post/post holder integration.

MODEL NO.	FORMAT	RANGE	SIZE (mm)	ACTIVE AREA
IRC-01	Card	IR	86 x 54	~4.2 X 2.3 cm
UVC-01	Card	UV	86 x 54	~4.2 X 2.3 cm
VISC-01	Card	VIS	86 x 54	~4.2 X 2.3 cm
IRC-02	Wand	IR	Disk: 25 , Wand: 130 x 35	~3cm ²
UVC-02	Wand	UV	Disk: 25 , Wand: 130 x 35	~3cm ²
VISC-02	Wand	VIS	Disk: 25 , Wand: 130 x 35	~3cm ²
IRC-02	MTD	IR	OD: 70 Thick: 8mm 1/4-20 for post	~12.6cm ²
UVC-03	MTD	UV	OD: 70 Thick: 8mm 1/4-20 for post	~12.6cm ²
VISC-03	MTD	VIS	OD: 70 Thick: 8mm 1/4-20 for post	~12.6cm ²

**Specifications are on the next page.

SPECIFICATIONS	IR	UV	VIS
Stimulation Range	Band 1: from 790nm to 840nm Band 2: from 870nm to 1070nm Band 3: 1550nm	from 250nm to 550nm	Band 1: from 400nm to 640nm Band 2: from 800nm to 1700nm
Typical Applications	Band 1: 808nm, 820nm, 830nm LDs Band 2: 880nm, 960-980nm LDs, Nd:YAG Band 3: 1550nm telecommunications	N ₂ , HeCd, Ar+, tripled Nd:YAG, etc.	Band 1: Ar+, HeNe, HeCd, Nd:YAG, etc. Band 2: NIR LEDs, LDs, Nd:YAG, etc., 1550 telecommunications
Emission Color	Green (550nm), other peaks at Red (673nm) and Blue (400nm)	Yellow (580nm), Broadband from 490nm to 700nm	Orange/red (655nm), Broadband from 600nm to 730nm
Persistence (stimulation removed)	Decay time to 10% is 800μs	Visible emission 6 secs - 4mins (dependent on ambient light)	IR: <0.5 sec.; Visible: 0.5 - 3 secs (dependent on ambient light)

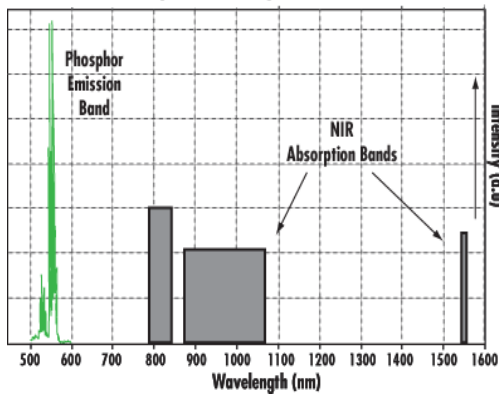
Minimum Stimulation for visible emission (measured in darkened conditions)

Pulsed	250kW / cm ² @ 1064nm, 7ns, 10Hz (in low ambient light)	<8W / cm ² @ 337nm, 4ns,20Hz and <40W / cm ² @ 337nm, 4ns, 1Hz	-
Continuous	<2μW / cm ² @ 808nm, <175nW / cm ² @ 960nm, <100μW / cm ² @ 1550nm	<1nW / cm ² @ 450nm, @ 365nm	<1nW / cm ² @ 450nm and <25μW / cm ² @ 950nm
Nd:YAG	-	-	2 kW / cm ² @ 1064nm, 7ns, 10Hz (in low ambient light)

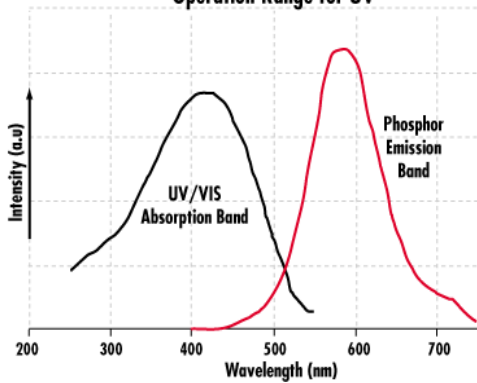
Maximum Stimulation

Single Pulse	35MW / cm ² @ 1064nm, 7ns	130MW / cm ² (card only) or 850MW / cm ² (other formats) @ 337nm, 4ns and 60MW / cm ² (all formats) @ 1064nm, 7ns	130MW / cm ² (card only) or 850MW / cm ² (other formats) @ 337nm, 4ns and 60MW / cm ² (all formats) @ 1064nm, 7ns
Continuous	<100 W/cm ²	(all formats) 100 W/cm ² @ 512nm	(all formats) 100 W/cm ² @ 512nm

Operation Range for IR



Operation Range for UV



Operation Range for VIS

