

*Red & Green*  
**RUGGEDIZED Industrial  
 Laser Diode Modules**



**NEED A TOUGHER LASER?**

BEA Lasers' Ruggedized Industrial Laser Diode Modules stand up to the most demanding conditions.

Ready for virtually unlimited heavy-duty applications, this unit is built to take extreme abuse in the toughest jobs.



**Complete System: Laser, Cable, Power Supply**

Applications:

- |               |                 |             |
|---------------|-----------------|-------------|
| Metal-forming | Heavy Duty Saws | Targeting   |
| Drilling      | Welding         | Positioning |
| Punch Presses | Alignment       | Riveting    |

Light from green lasers is 7 times more visible to the human eye than red laser light!

If you have high ambient light conditions, green laser diode modules are the choice for you.

With a stainless steel, black zinc-plated case and a steel mounting lock-nut, the unit may be panel- or bracket-mounted and used in the heaviest equipment applications. The ruggedized Industrial Laser Diode Module is built to withstand liquids (water resistant), vibration, chemicals, impact and dust.

When paired with BEA Lasers Diffractive Optical Elements, our Ruggedized Industrial Laser Diode Modules will aid in targeting, alignment and positioning applications.

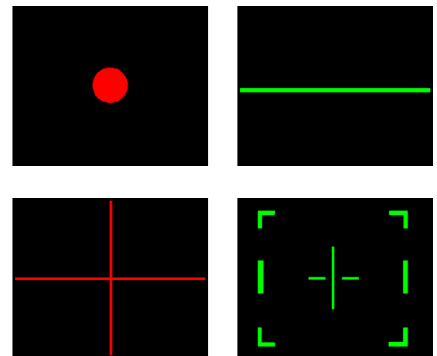
The complete package includes the ruggedized laser module, a connector cable assembly and a DIN rail-mounted power supply. Mounting brackets and other styles of cables are available, including straight, right-angle (shown at left) and right-angle cable with LED "Power On" Indicator. Our modules are also available with industry-standard, fully threaded, stainless steel sensor body.



Pattern Designs Available:

Standard:  
Dot

Options:  
Crosshair  
Target  
Line



Ruggedized Industrial Laser Diode Modules are available in **Green (532nm)** or **Red (650nm)** colors.

**Green: MIL301GHD | Red: MIL301RHD**

BEA's Laser Diode Modules are factory-set to FDA-Approved Power Levels (<5mw, class IIIa) to comply with Section 21 DFR Part 1040.10-11.

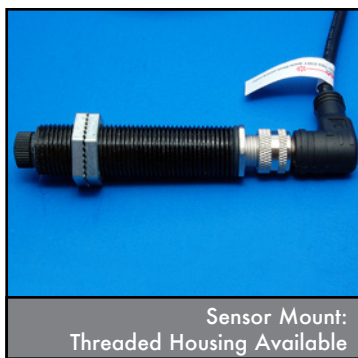
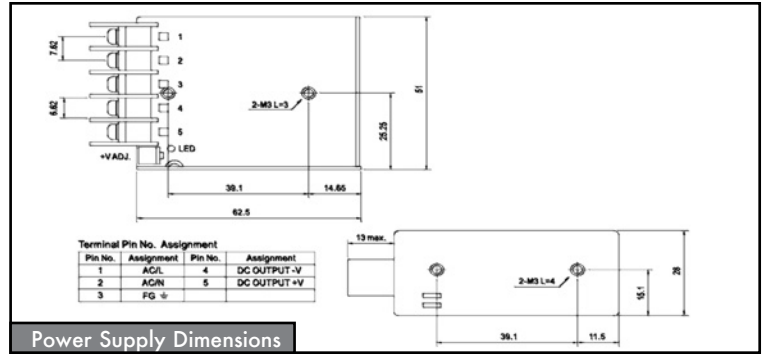
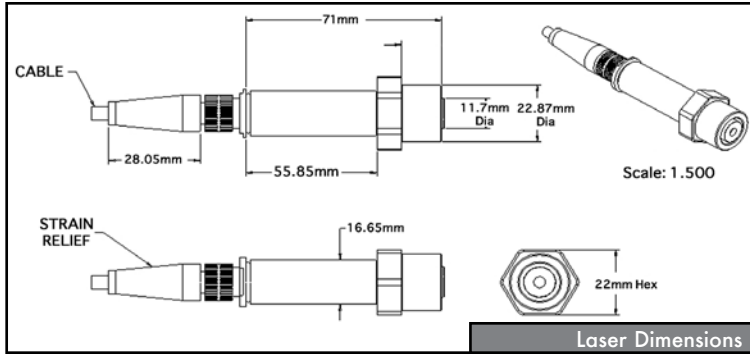


A Division of BEA Electro Sales

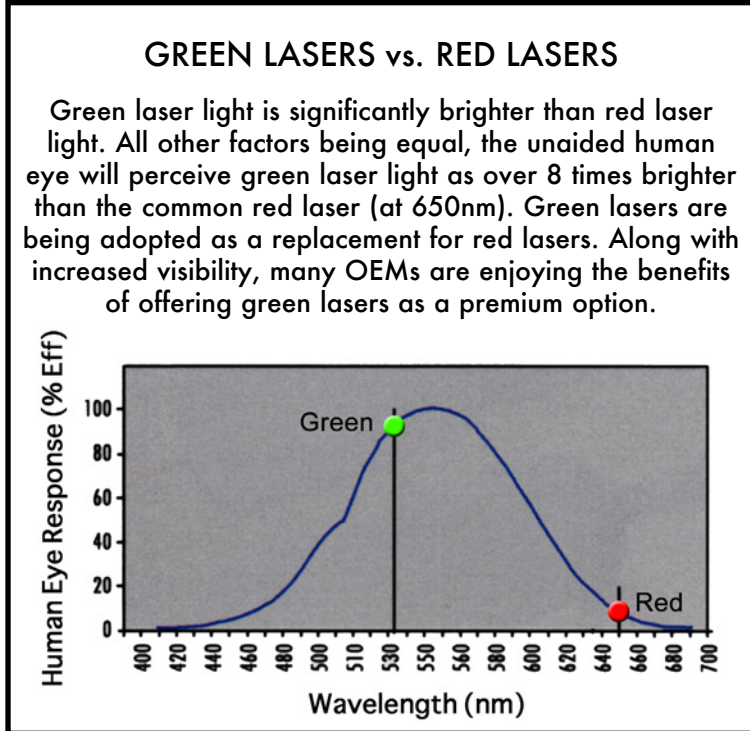
1400 Howard Street  
 Elk Grove Village, IL  
 60007

PHONE: (847) 238-1420  
 FAX: (847)-238-1423  
 www.bealasers.com

# Red & Green RUGGEDIZED Industrial Laser Diode Modules



**Model Numbers:**  
Contact BEA Lasers for  
Full Model Number Information



Optical		
Output Power (mW)	1,3,5	1,3,5
Wavelength (nm)	650 (Red Laser)	532 (Green Laser)
Class	IIIa	IIIa
Lens	Plastic	Glass
Focus	Adjustable	Fixed
Operation Mode	Continuous Wave	Continuous Wave
Spectral Line width (nm)	<0.1	<0.1
Beam Diameter, 1/e <sup>2</sup> (mm)	<1	<1.5
Beam Divergence (mrad)	0.8	<1.4
Output Power Stability for 1 hour	<±5% (typical 1%)	<±5% (typical 1%)
Electrical/Mechanical		
Operating Voltage (VDC)	3	3
Operating Current (mA)	<30	<300
Circuit Design	Auto Power Control	Auto Power Control
Lead Length	6.5' / 2M	
Housing Material	Black, Zinc-Coated Stainless Steel	
Length (mm)	2.795 inches / 71 mm	
Body Diameter (mm)	.678 inches / 16.65 mm	
MTTF (hrs)*	>5,000	
DIN Rail Power Supply		
Rated Input Voltage	83 Vac ~ 230 Vac	
DC ON indicate (Green LED)	>3V	
Current Range	0-3A	
Humidity	20%~90% RH	
MAX. Required Free Space	25mm on all sides	
UL/cUL	UL 60950-1 / TUV 60950-1AP	

**WARNING: Laser Beams and Hazards**

Lasers produce an intense, highly directional beam of light. If directed, reflected or focused upon an object, laser light will be partially absorbed, raising the temperature of the surface and/or the interior of the object, potentially causing an alteration or deformation of the material. Lasers can also cause tissue damage. However, lower-power lasers may emit levels of laser light that are not a hazard.