

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

MIL 300 Series Laser

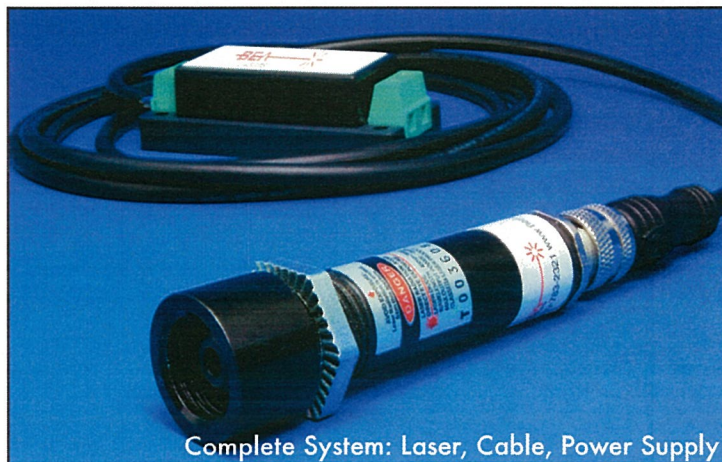
BEA
LASERS



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
Drilling
Punch Presses

Heavy Duty Saws
Welding
Alignment

Targeting
Positioning
Riveting

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.

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.



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.

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.

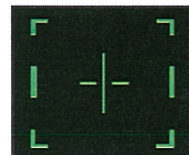
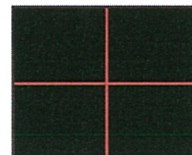
When paired with BEA Lasers Diffractive Optical Elements, our Ruggedized Industrial Laser Diode Modules will aid in targeting, alignment and positioning applications.

Pattern Designs
Available:

Standard:
Dot



Options:
Crosshair
Target
Line



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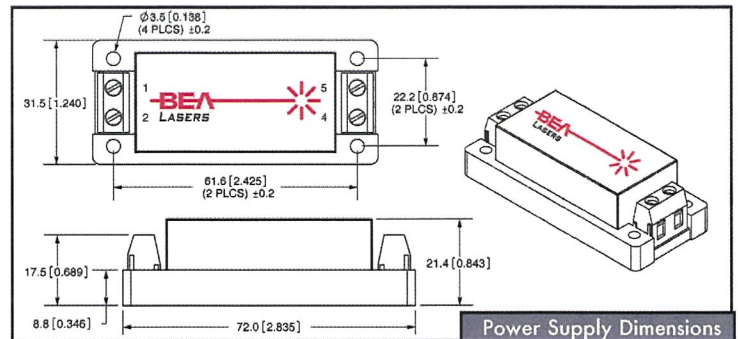
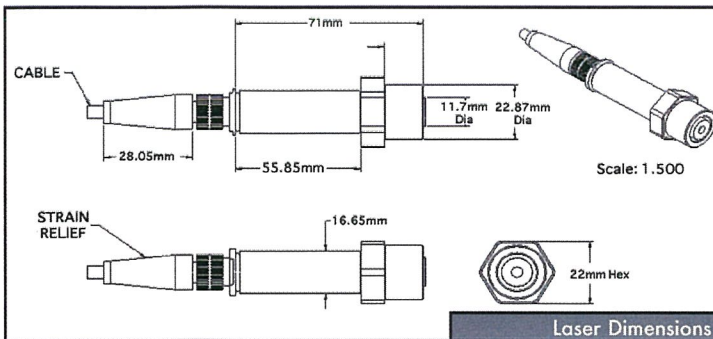
A Division of BEA Electro Sales



2330 Brickvale Drive
Elk Grove Village, IL
60007

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

Red & Green RUGGEDIZED Industrial Laser Diode Modules



Model Numbers:
Contact BEA Lasers for
Full Model Number Information

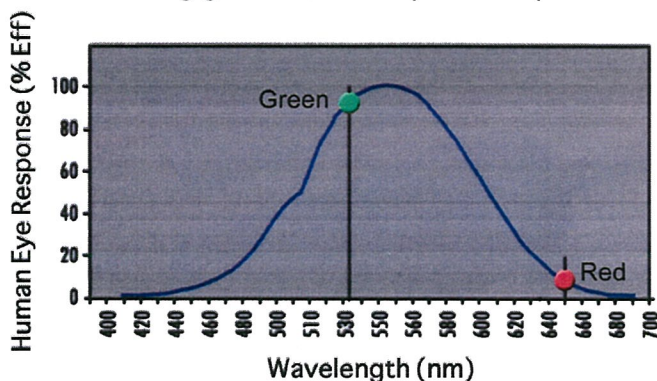
Optical		
Output Power (mW)	1,3,5	1,3,5
Wavelength (nm)	650 (Red Laser)	532 (Green Laser)
Class	IIIa	IIIa
Lens	Plastic	Glass
Focus	Adjustable	Fixed
Operation Mode	Continuous Wave	Continuous Wave
Spectral Line width (nm)	<0.1	<0.1
Beam Diameter, 1/e ² (mm)	<1	<1.5
Beam Divergence (mrad)	0.8	<1.4
Output Power Stability for 1 hou	<±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 / 71mm	
Body Diameter (mm)	.678 inches / 16.65mm	
MTTF (hrs)*	>5,000	

DIN Rail Power Supply	
Rated Input Voltage	100Vac ~ 240 Vac
Nominal Current	1500 mA
Humidity	20%-90% RH
MAX. Required Free Space	25mm on all sides
UL/cUL	UL508 Listed, UL 1310 Listed Class 2 power, UL 60950-1 Recognized

GREEN LASERS vs. RED LASERS

Green laser light is significantly brighter than red laser light. All other factors being equal, the unaided human eye will perceive green laser light as over 8 times brighter than the common red laser (at 650nm). Green lasers are being adopted as a replacement for red lasers. Along with increased visibility, many OEMs are enjoying the benefits of offering green lasers as a premium option.



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.