



中国长春新产业光电技术有限公司  
Changchun New Industries Optoelectronics Tech. Co., Ltd

## PGL-VI-940



Diode infrared laser module at 940nm is made features of wide range temperature operating (without TEC), high reliability, and low cost, which made it be used widely in orientation, alignment and measurement, etc.

### SYSTEM SPECIFICATIONS\*

Wavelength	nm	940
Wavelength tolerance	nm	±10
Output power	mW	1-100
Operating mode		CW
Transverse mode		Near TEM <sub>00</sub>
Beam diameter at the aperture(1/e <sup>2</sup> )	mm	~3.5
Beam divergence, full angle	mrad	<1
Expected lifetime	hours	10,000
Warranty	months	6

*Focus adjustable laser is optional.*

### ELECTRICAL SPECIFICATIONS

Operating voltage(internal)	3VDC (TTL10kHz)
Operating voltage(external PCB1)	5VDC (TTL30kHz or Analog 0-3V、0-5V)
Operating voltage(external PCB2)	5-12VDC (TTL30kHz and Analog 0-3V、0-5V)
Connection	Cable with flying leads

### ENVIRONMENTAL CONDITIONS

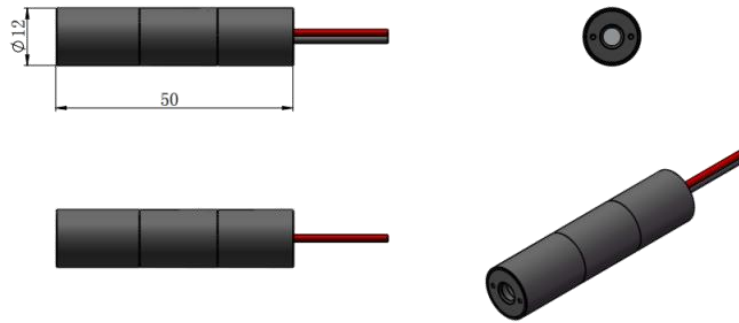
Operating temperature	0°C to 40°C
Storage temperature	-20°C to 80°C
Humidity	< 90 %, non-condensing
Dissipated heat	< 1W

### MECHANICAL SPECIFICATIONS

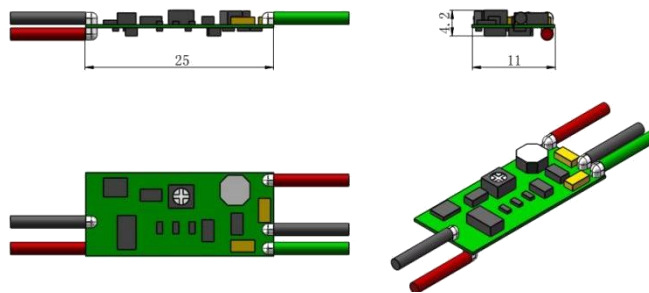
Laser head diameter Φ	mm	12
Length	mm	50
Material		Aluminum
Shell polarity		The housing has non-polarity.

\*All testing data under the conditions of temperature 25°C.

Dimensions of laser(Internal PCB,  $\Phi 12 \times 50 \text{mm}^2$ , 3VDC, TTL)



Dimensions of external PCB1(11×25mm<sup>2</sup>, 5VDC, TTL or Analog)



Dimensions of external PCB2(*wide voltage input range*, 20×30mm<sup>2</sup>, 5-12VDC, TTL and Analog)

