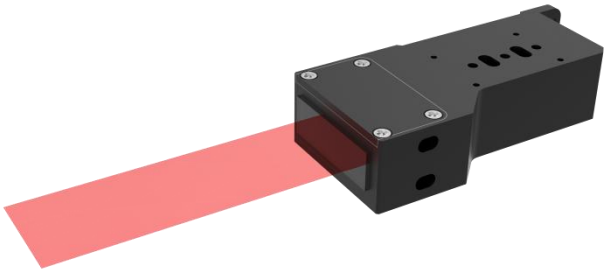
中 国 长 春 新 产 业 光 电 技 术 有 限 公 司

Changchun New Industries Optoelectronics Tech. Co.，Ltd

PGL-LPL Series Lasers



PGL-LPL Series Lasers

The laser and the optical path is designed to be collimated. The line laser with parallel output is provided to avoid the formation of an Angle area due to occlusion and to ensure no dark corners, breakpoints or blind spots in the filed of view.

The user can choose from red, green, or blue wavelengths depending on the application and material to be inspected.

PGL-LPL Series Diode Lasers with its industrial-suited design and stable performance works perfectly as an integrated module in collimation, laser medical treatment, scientific experiment, optical instrument, etc.

FEATURES

- Extra-long parallel light working distance
- Collimated optical path
- High uniform intensity
- The scanning effect can be significantly improved

APPLICATIONS

- Machine vision
- 3D scanning
- Industrial inspection
- Optical instrument

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SYSTEM SPECIFICATIONS*

Wavelength	nm	405	450	520	635-660
Wavelength tolerance	nm (typical)	±10	±10	±10	±10
Output power	mW	1-50	1-50	1-50	1-50
Line width	@50cm	<400μm			
Line length @ aperture	mm	18			
Line length @ 50cm	mm	18			
Laser operation mode		CW			
Expected lifetime	hours	10000			
Warranty	years	1			

Different focusing distance and line width could be customized

ELECTRICAL SPECIFICATIONS

Operating voltage(external PCB)	DC 5-12V		
Connection	Cable with flying leads		

TTL MODULATION OPTIONAL(external PCB)

Maximum frequency	up to 30kHz		
Signaling levels	VIL_max<+0.9V	VIH_min>+2.2V	VIH_max<+7V

ANALOG MODULATION OPTIONAL(external PCB)

Active range(optional)	DC 0-3V	DC 0-5V

ENVIRONMENTAL CONDITIONS

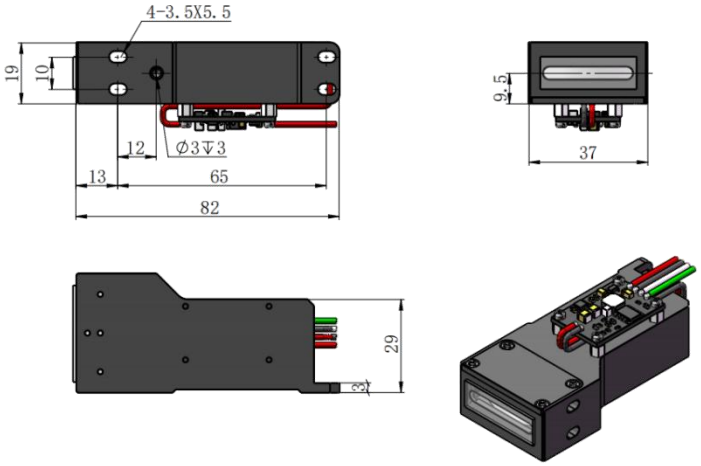
Operating temperature	°C	-10°C to +45°C
Storage temperature	°C	-20°C to +80°C
Humidity	%	< 90 %, non-condensing
Dissipated heat	W	< 1 W

MECHANICAL SPECIFICATIONS

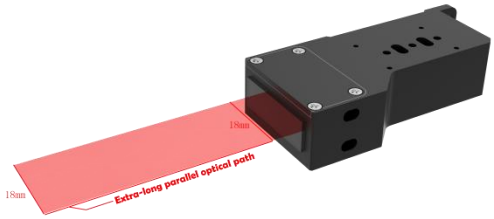
Weight	g	105g
Dimensions of laser head	mm	82×37×19 mm^3
Material	Aluminum	

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

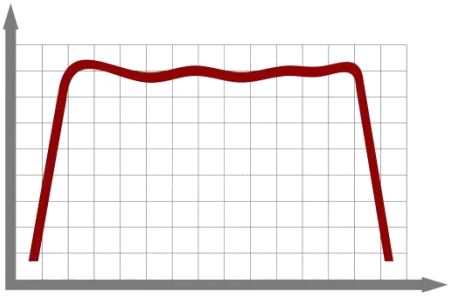
Dimensions of laser (mm):



Features:



Extra-long parallel optical path



High uniform intensity

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