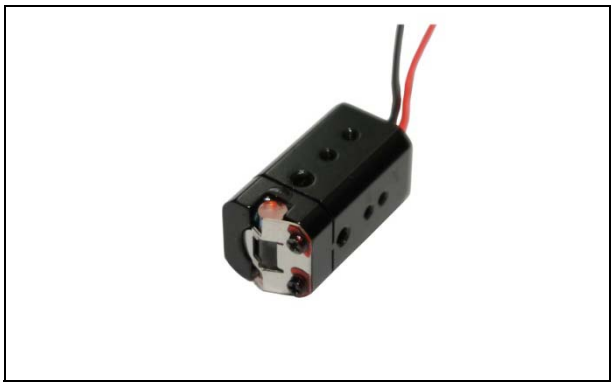
INFINITER®

Professional Use Line Laser

VLM-635/650-37 Series



FEATURES:

- Professional Red Line Laser.
- The supreme line-accuracy and the widest emitting angle line Laser module for use with Professional applications.
- Versatile mechanical structure on 4 sides, easy to fixed.
- This module has integrated quartz cylindrical lens, collimating lens, laser diode, and APC driver circuit.
- APC driver circuit enables the Laser output power safe and constant.
- Aluminum housing with Anodized finish for the best heat transfer consideration .
- Utilize Glass Lens, spot-size maintain tight-dot while temperature fluctuate between -20°C ~50°C.
- Dimensions: (W)14 x (H)14 x (L)26 mm, (W 0.551" x H 0.551" x H 1.023")
- Wavelength : 635 / 650 nm
- Output power (Center/Total) : Class II – less than 1mW / 2~12mW
- Laser line accuracy: 20" (+/- 1mm @10m).
- Emitting angle: > 120°
- 2.6~5 VDC operation.
- Connection type: Lead wire

APPLICATIONS:

- Professional Red Straight Line Laser, ultra-precision grade for professional leveling, alignment, adjusting, positioning, measuring and targeting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science

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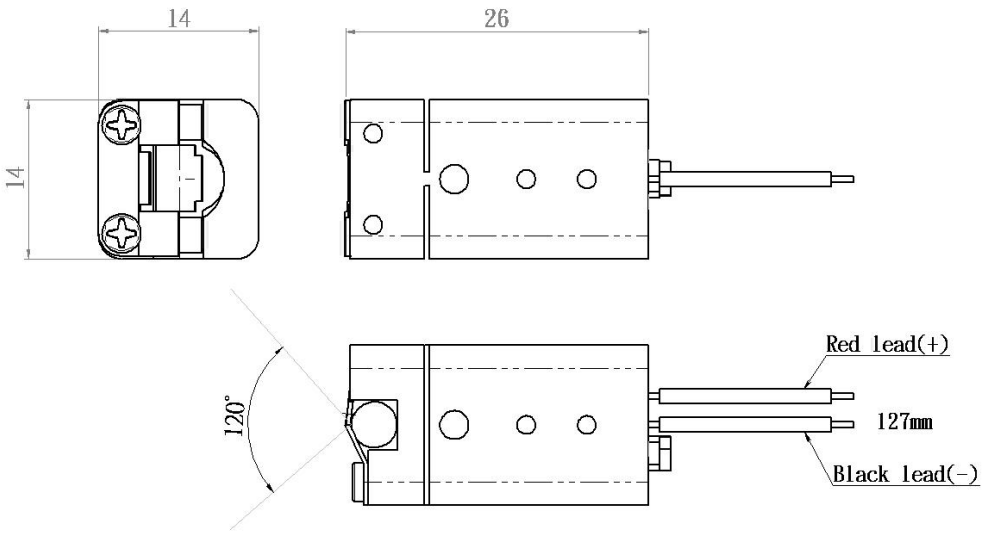
OUTLINE DIMENSIONS (UNITS: mm)

Outline



SPECIFICATIONS

SPECIFICATIONS		635-37 LPT	650-37 LPT	650-37 LPT-30
1	Dimensions	(W)14 x (H)14 x (L)26 mm (W 0.551" x H 0.551" x H 1.023")		
2	Operating voltage (Vop)	2.6~5 VDC		
3	Operating current (Iop)	< 50mA	< 35mA	< 100mA
4	Continuous wave output power (Center)	<1mW		
5	Continuous wave output power (Total)	2mW	2mW	12mW
6	Wavelength at peak emission (λp)	630~645nm	645~665nm	
7	Cylindrical lens	Quartz cylindrical lens (ø4)		
8	Collimating lens	Glass lens(ø7)		
9	Laser line Width	2 ±1mm @5m, 4 ±1mm @10m		
10	Laser line accuracy	20" (+/- 1mm @10m)		
11	Emitting angle	> 120°		
12	Operating temp. range	-20°C ~+50°C		
13	Storage temp. range	-40°C ~+70°C		
14	Housing	Aluminum		
15	Mean time to failure (MTTF) 25℃	5000hrs	10000hrs	

Note : Laser module housing is an electrical positive surface, it is imperative that contact between the laser module and the machine be avoided. This is to prevent damage from the machine electrical leakage. Surge protected power supply to the laser module is strongly recommended.

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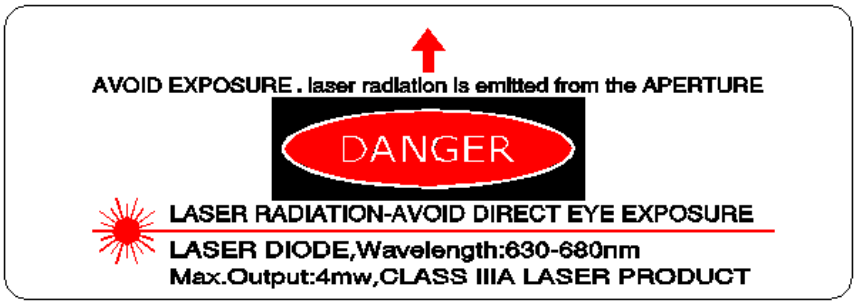
ORDER CODE

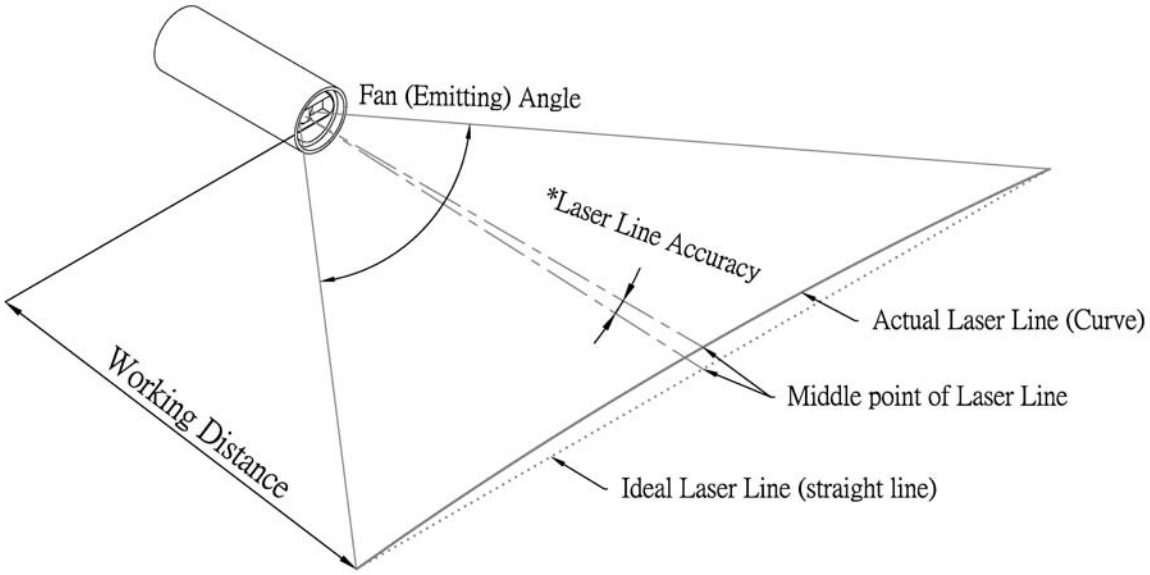
Order Code	Wavelength	Total Output Power	Connection Type
VLM-635-37 LPT	635 nm	2 mW	Lead Wire
VLM-650-37 LPT	650 nm	2 mW	Lead Wire
VLM-650-37 LPT-30	650 nm	12 mW	Lead Wire

SAFETY LABEL



Annex A.

Laser Line Accuracy



*Laser Line Accuracy
The error angle between Ideal and Actual Laser Line at middle point.
For VLM-635/650-27 Series, Laser line accuracy < 40" (Arc Second) = $\frac{40}{3600}^{\circ}$ (Degree)
For VLM-635/650-37 Series, Laser line accuracy < 20" (Arc Second) = $\frac{20}{3600}^{\circ}$ (Degree)
For VLM-532-46 Series, Laser line accuracy < 20" (Arc Second) = $\frac{20}{3600}^{\circ}$ (Degree)