## **Concentricity Laser Module / Precision Laser Module**

## CLM-635-01 LPO / CLM-635-02 LPT



Concentricity laser modules are designed for those who need to perform precision alignment task. Beam error is less than 1 mm at the distance of 30 meters with perfect circular dot. Accessories-battery pack, 3 meters USB cable and cable switch are all included in a plastic carry case.

#### **FEATURES:**

- Concentricity(beam point error): less than 1mm at 30 meters(10 second degree).
- Circular beam shape, aspect ratio 1:1.
- Class I / Class II eye safe laser product.
- Micro USB power connector.
- Battery pack, USB cable, USB cable switch included.
- Plastic carrying case.
- Dimensions: Ø20 x 60 mm (Ø0.787" x 2.36")
- Wavelength: 630~645 nm
- Output power: CLM-635-01 LPO Class I less than 0.39mW

CLM-635-02 LPT - Class II - less than 1mW.

- Beam Divergence (Half Angle): 0.15 mRad
- 3~6 VDC operation.
- Connection type : Micro USB

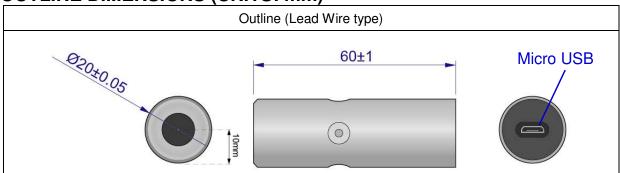
#### **APPLICATIONS:** ideal for

- Aiming or position work.
- Concentricity test of rotating parts.
- Alignment of machine.
- Straightness test for all kinds of equipment, like carriages, crabs, etc.



## CLM-635-01 LPO / CLM-635-02 LPT

**OUTLINE DIMENSIONS (UNITS: mm)** 



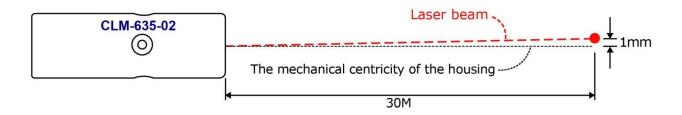
### **SPECIFICATIONS**

SPECIFICATIONS		CLM-635-01 LPO	CLM-635-02 LPT	
1	Recommended working range	0~1M	1~30M or above	
2	Concentricity(Beam point error)	1mm@30M (10 second degree)		
3	Dimensions	Ø20 x 60 mm (0.787" x 2.36")		
4	Weight	88±1 g		
5	Operating voltage (Vop)	3~6 VDC		
6	Operating current (lop)	Less than 50mA		
7	Optical output power (Po)	Less than 0.39mW	Less than 1mW	
8	Laser class	Class I	Class II	
9	Wavelength at peak emission (λp)	630~645nm		
10	Collimating lens	Aspherical glass lens		
11	Output Aperture	0.8mm	3mm	
12	Beam shape	Circular, aspect ratio 1:1		
13	Beam size	AS <b>TABLE A</b>	AS <b>TABLE B</b>	
14	Divergence (Half Angle)	0.15 mRad		
15	Operating temp. range*	-20°C ~+60°C		
16	Storage temp. range	-40°C ~+85°C		
17	Housing	Stainless steel		
18	Housing Color	Silver		
19	Potential of housing	Isolated		
20	Power supply connector	Micro USB (5V)		
21	Mean time to failure (MTTF) 25°C	10000hrs		
22	Accessories(included)	Battery pack, USB cable, USB cable switch		
23	Package	Plastic carrying case		

<sup>\*</sup> Operation temperature: it means within this temperature range, the laser spot/line will not be affected to change the spot size/line width. It can still work over this range, but the laser spot size or laser line width will be larger.

### **Concentricity:**

The laser beam error at a distance of 30M is less than 1mm from the mechanical center of the housing.



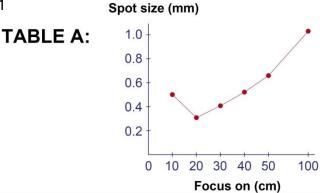
#### **Laser Beam Position:**

Laser beam center to the surface of the housing is 10mm.

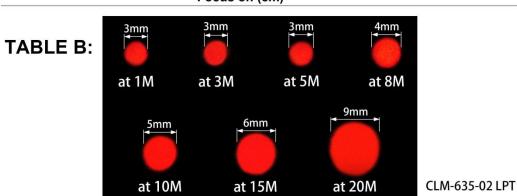


### Circular beam shape:

Aspect ratio 1:1



CLM-635-01 LPO



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# CLM-635-01 LPO / CLM-635-02 LPT





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#### **Accessories:**

**CLM-BP4N3** - Battery pack (4\* AA batteries)

\*\*\* AA Batteries are **NOT** included in package.

USB Output Voltage: 5V DC

Color: Black



### **CLM-USBSW** - USB Cable Switch

Length: 28cm Color: Black



**CLM-UM3M** - USB to micro USB Cable

Length: 3 meters Color: Black





## CLM-635-01 LPO / CLM-635-02 LPT

#### **ORDER CODE**

Order Code	Wavelength	Laser Power Output	Laser Class	Connection Type
CLM-635-01 LPO	635 nm	Less than 0.39mW	Class I	Micro USB
CLM-635-02 LPT	635 nm	Less than 1mW	Class II	Micro USB

#### **SAFETY LABEL**

CLASS I LASER PRODUCT
This product complies with 21CFR
Chapter 1. subchapter J.

CLM-635-01 LPO



CLM-635-02 LPT