

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

# CLM-635-11 LPO / CLM-635-12 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:**

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- 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 : 20(W) x 20(H) x 60(L) mm (0.787" x 0.787" x 2.36")
- Wavelength : 630~645 nm
  - Output power : CLM-635-11 LPO Class I less than 0.39mW.
    - CLM-635-12 LPT Class II less than 1mW.
- Beam Divergence (Half Angle) : 0.15 mRad
- 3~6 VDC operation.
- Connection type : Micro USB

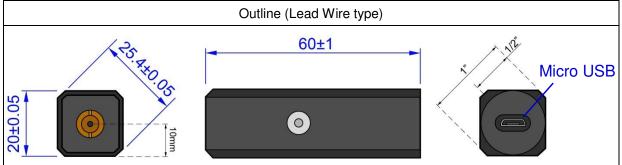
#### **APPLICATIONS: ideal for**

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

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# CLM-635-11 LPO / CLM-635-12 LPT

### OUTLINE DIMENSIONS (UNITS: mm)



#### SPECIFICATIONS

	SPECIFICATIONS	CLM-635-11 LPO	CLM-635-12 LPT				
1	Recommended working range	0~1M	1~30M or above				
2	Concentricity(Beam point error)	1mm@30M (10 second degree)					
3	Dimensions	20(W) x 20(H) x 60(L) mm (0.79" x 0.79" x 2.36")					
4	Weight	53 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 TABLE A	AS TABLE 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	Hard anodized aluminum					
18	Housing Color	Black					
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					

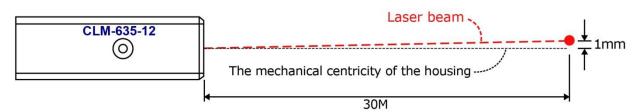
\* Operation temperature: it means within this temperature range, the laser spot/line will not be affected to change the spot size/line

width. It can still work over this range, but the laser spot size or laser line width will be larger.

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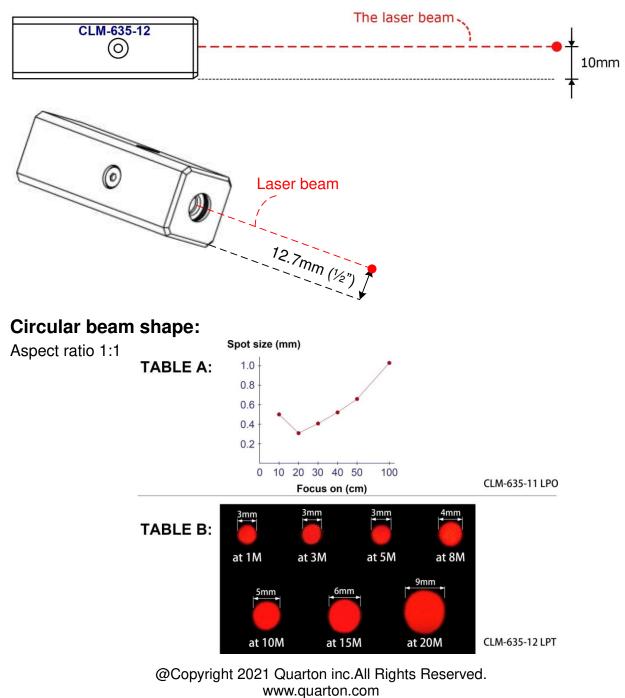
## **Concentricity:**

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.



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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-635-11 LPO / CLM-635-12 LPT

#### **ORDER CODE**

Order Code	Wavelength	Laser Power Output	Laser Class	Connection Type
CLM-635-11 LPO	635 nm	Less than 0.39mW	Class I	Micro USB
CLM-635-12 LPT	635 nm	Less than 1mW	Class II	Micro USB

### SAFETY LABEL



CLM-635-11 LPO



CLM-635-12 LPT