

## Accessories

Following accessories are available to Latronix AB's LRD-lasers:

- Brackets
  - BV54
- Bars to brackets
  - 200mm
  - 500mm
- 90 degree angles to bars
- 90 degree optic



Latronix AB develops and manufactures lasers and non-contact length, width and dimension measurement systems with high accuracy. We also offer complete customized solutions.

If you have any questions, please contact us!

Latronix AB  
Enhagsvägen 9  
187 40 Täby

Telephone 08-446 48 30, fax 08-446 48 39  
E-mail: [service@latronix.se](mailto:service@latronix.se), home page: [www.latronix.se](http://www.latronix.se)



# LRD- laser User manual



# Product information for LRD-lasers

## Dimensions:

Diameter: 54,5mm ± 0,5mm

Length: 342mm ± 1mm

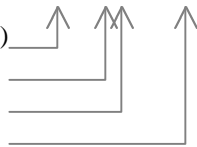
## Model codes: LRD $X$ – YL – Z

$X$  – output power (mW)

$Y$  – wavelength (nm)

$L$  – line optics

$Z$  – input voltage



*For model code of delivered laser, see delivery certificate*

Example:

The LRD18-635L-230 model is an LRD-laser with 18 mW output power, 635 nm wavelength and 230 volt AC input voltage. The laser has line optics.

## Specifications

Degree of protection provided by enclosures	IP65 (Totally protected against dust and protected against low pressure jets of water)
Electrical connection	Cable length 2 m. The input voltage is galvanic separated from the shield. The lasers can be delivered with 5, 12 and 24 VDC or 230 VAC input voltage (CE-marked adapter).
Operating temperature range	Red lasers; -10° to +40°C, Green; +15 to +30°C
Typical lifetime at 25°C	Red lasers: 30 000-40 000 hours, Green lasers: 10 000 hours or more
Field of view	25°, 30°, 45° or 60° (45° is standard) Even other fields of view are available
Guarantee	One-year guarantee (if no changes has been done)  For specifications concerning the delivered laser; see delivery certificate.

## Usage and Installation

Mounting	Mounting surface must be stable and free from vibrations. The laser should be mounted to avoid possible human exposure of the laser beam.  Latronix AB has special laser brackets for sale; please contact us for more information. If other brackets are used they must be used in a way so that the covering of the laser is not deformed.
Adjustment	Latronix AB can adjust new laser focus and fields of view on your LRD-laser. NB! Only Latronix is allowed to do this adjustment; the laser class might be changed!
Connection	If the laser is delivered without AC adapter: The red conductor must be connected to positive voltage, the black to negative.
Maintenance	No maintenance is demanded except that the external windows are kept clean. The guarantee is only available for an intact laser.



## Laser safety

Laser light is sorted in different security classes. The laser class can be seen on the laser covering. The following classes are available for LD-lasers:

Class 2	Do not normally present a hazard because of normal human aversion responses.
Class 3R	Do not normally present a hazard but <b>would</b> present if viewed using collecting optics.
Class 3B	Present an eye and skin hazard if viewed directly.

*On our home page a detailed description about the laser classes can be found.  
Go to: [www.latronix.se](http://www.latronix.se)*