



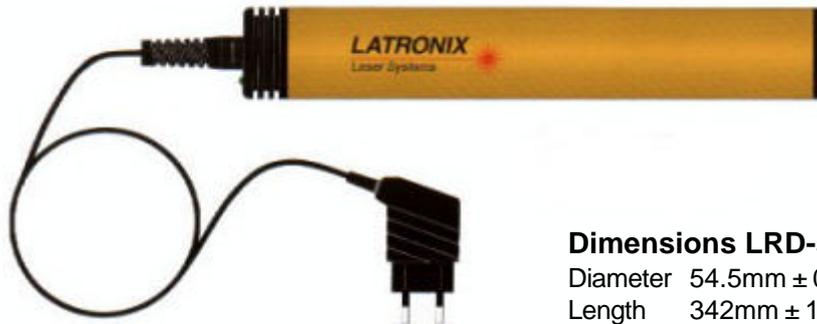
Features

- *Diode laser system for high precision*
- *High visibility even in light environment*
- *Sharp and narrow lines even at long distances*
- *Red and green light sources*
- *Models with analogue or digital modulation*
- *Rugged, industrial quality design*
- *High output power, up to 75mW*



Dimensions LD-series

Diameter 20mm ± 0.5mm
 Length 115mm ± 5mm



Dimensions LRD-series

Diameter 54.5mm ± 0.5mm
 Length 342mm ± 1mm

Technical specifications of all models

| | |
|-----------------------------|---|
| Degree of protection | IP65 for the laser unit |
| Electrical connection | 5 - 6V well regulated DC, cable length 2m |
| Power supply | 230V AC, CE-marked adapter, encapsulation IP54 |
| CE-mark | EMC-standard class4 |
| Ambient temperature | Red lasers -10° to +40°C Green lasers +10°C to +30°C |
| Typical lifetime at 25°C | 30.000 - 40.000 hours for red models and 10.000 hours or more for other models |
| Field of view (line length) | 4°, 25°, 30°, 45° (standard), 60° and 90° |

| | | |
|--------------------|--------------------------|-------------------------------------|
| Model codes | LRD X - Y - L - Z | LRD-series, alternatively LD-series |
| | X | output power |
| | Y | wavelength |
| | L | built-in optics |
| | Z | input voltage |

LD- and LRD-series lasers give a straight and sharp line. They are used to give reference lines for positioning different tools in industrial environments as saw- and paper mills, steel-, vehicle- and manufacturing industry. By using laser guide lights you get higher quality on your products at the same time as you reduce your costs. A good laser guide light increases precision, you optimize the material you are working with and you save time.

LD-series lasers have a diameter of 20mm and a length of 115mm. These lasers have, despite the compact design, a robust mechanical construction adapted for industry. By a simple operation you can focus the line at a desired distance. The line thickness can be 0.02mm at the exit.

LD-series lasers are made in several models for different wavelengths and powers from infrared 830nm to light red 635nm. Among the red colors the 635nm has the best visibility for the human eye.

LRD-series lasers have a diameter of 54mm and a length of 342mm. With a unique design where several laser diodes are interacting for the same line you can get a laser guide light with output power up to 75mW. This design makes it possible to upgrade the output power if necessary.

LRD-series lasers are produced with several different wavelengths from infrared 830nm to light red 635nm.

The latest result in our ambition to constantly improve our products and thereby satisfy the users requirements we have developed lasers with analogue or digital modulation. Such lasers are used in applications where one wants to control the laser pulse frequency or to modulate the output power in a desired way between zero and max.

LD-series lasers

| Models | Output power |
|-----------------------|--------------|
| LD1-635L | 1 mW |
| LD3-635L | 3 mW |
| LD6-635L | 6 mW |
| LD12-635L <i>New!</i> | 12 mW |
| LD18-635L <i>New!</i> | 18 mW |

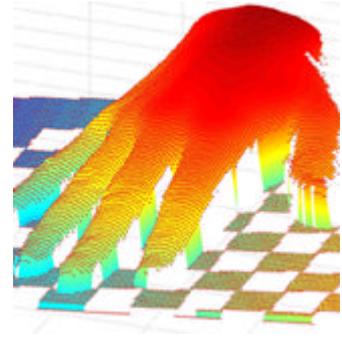
LRD-series lasers

| Models | Output power |
|-------------------------|--------------|
| LRD6-635L | 6 mW |
| LRD12-635L | 12 mW |
| LRD18-635L | 18 mW |
| LRD24-635L | 24 mW |
| LRD30-635L | 30 mW |
| LRD36-635L <i>New!</i> | 36 mW |
| LRD48-635L <i>New!</i> | 48 mW |
| LRD60-635L <i>New!</i> | 60 mW |
| LRD75-635L <i>New!</i> | 75 mW |
| LRD1-532L <i>Green!</i> | 1 mW |
| LRD5-532L <i>Green!</i> | 5 mW |
| LRD8-532L <i>Green!</i> | 8 mW |

Adjustable brackets

With the help of adjustable brackets the laser can be pointed sideways to center- or parallel positioning. One can also rotate the laser around its center axis. The bracket has a stable construction and a design that doesn't require much space.





Options for all models

| | |
|-----------------------------------|--|
| Wavelength, power and line length | We can offer a large program of lasers with other specifications than those shown on this data sheet |
| Input voltage | 5, 12, 24 V DC; 110, 230V AC |
| Field of view | 4°, 25°, 30°, 45° (standard), 60° och 90° |
| Brackets and other accessories | See separate data sheet |
| Extended temperature range | Ask for a quotation |
| Pattern generating lasers | Ask for a separate offer with many alternatives |

Laser Safety and Labels - Warning!

Some of the laser models can be dangerous if not used properly. Laser safety class is marked on the label placed at the beam aperture of the lasers. Read laser safety instructions for your working site carefully before using the unit the first time and be careful not to be exposed to any harmful radiation.



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