Product Features

- High stability and low noise
- Collimated or adjustable focus beam
- Laser line, cross line or spot
- Reverse polarity protection
- Custom options available
- Industrial hardened high grade glass optics
- Waterproof, shock proof and dustproof

Applications

- Measurement
- Bioanalytical
- Automation
- Alignment
- Targeting

Red or Green Laser Line Generator, Cross Line or a Laser Spot

The LLG-1550 Laser Alignment System can produce a Laser Line of 4°, 15°, 35°, 45°, 60°, 75°, 90°, or a Laser Cross Line pattern or a collimated Laser Spot with an output power of 1.0mW to 50mW. Operating voltage is from 3 to 5 VDC with an operating current of <30mA, with an operating temperature of -10°C to 50°C. The laser line, cross line pattern and the collimated laser spot are factory focused at 1m and can be used up to 6m with the proper optics or they can be set at other distances to order. It's your choice: a Laser Line, a Cross Line or a Laser Spot.

The LLG-1550 has a machined aluminum housing and a very durable powder coat painted finish. Our systems are completely waterproof, shockproof and dust proof with an environmental protection rating of IP 67.

The LLG-1550 is powered by an AC adaptor with an output of 4.5 volts DC at 700mA.

Pattern Options

<table>
<thead>
<tr>
<th>Line</th>
<th>Cross Line</th>
<th>Spot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line</td>
<td>Cross Line</td>
<td>Spot</td>
</tr>
</tbody>
</table>
Technical Data - LLG-1550

Optical

Wavelength: 635nm/532nm
Optical Output Power: 1mW up to 50mW
Stability: <1%
Laser Operation: Continuous
Laser Structure: Single Mode Laser
Fan Angle Line Generator: 4º, 15º, 35º, 45º, 60º, 75º, 90º
Minimum Line Thickness: <1mm up to 1 meter
Fan Angle Cross Line: 25º full fan angle
Minimum Line Thickness: <1mm up to 1 meter
Spot Size: Adjustable or Collimated
Minimum Spot Size: <60μm at <1" distance
Environmental Protection: IP 67 (waterproof, dustproof & shock proof)

Electrical

Operating Voltage: 3 to 5 VDC
Operating Current: <60 mA
Control Circuit: Auto Power Control
AC wall transformer adaptor: DC 4.5 V 700mA

Mechanical

Dimension: 5.5" long x 1.5" diameter
Housing: Machined Aluminum powder coat painted finish
Operating Temperature: -10ºC to +50ºC
Storage Temperature: -40ºC to +80ºC

Specifications subject to change without notice.

Included Bracket Consists of
- Adjustable angle Set Screw Security
- Full 360 rotation
- Single fastener

Fan Angle Selection Guide

For given fan angle, the line length (L) at distance (D) is calculated using the equation: L = a (x) D

For example: Using 4º Fan angle at distance of 1.5m, the line length will be L = 0.07 (x) 1.5m = 0.105m

Model Numbers

<table>
<thead>
<tr>
<th>Laser Generator</th>
<th>Fan Angle</th>
<th>Factor A</th>
<th>Laser Cross Line</th>
<th>Full Fan Angle</th>
<th>Laser Spot</th>
<th>Spot Size</th>
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<tbody>
<tr>
<td>LLG-1550-04-L</td>
<td>4º</td>
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<td>LLG-1550-25-CL</td>
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Complies with CDRH 21CFR 1040.10

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