



LL-1100

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

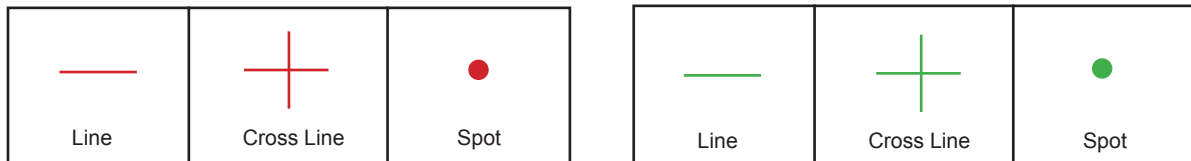
The LL-1100 Series Laser Alignment Systems can produce a Laser Line of 4°, 15°, 30°, 45°, 60°, 75°, 90°, or a Laser Cross Line pattern or a collimated Laser Spot with an output power of 1.0mW to 50mW. Operating voltage is from 3 to 5 VDC with an operating current of <60mA, with an operating temperature 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 LL-1100 Series Laser Alignment Systems have a machined aluminum housing and a very durable hard black anodized finish. Our systems are completely shockproof and dust proof.

The LL-1100 Series Laser Alignment Systems are powered by an AC adaptor with an output of 4.5 volts DC at 700mA.

LL-1100 LASER ALIGNMENT SYSTEM

Pattern Options





Technical Data - LL-1100

Optical

Wavelength: 635nm/523nm
 Optical Output Power: 1mW up to 50mW
 Stability: <1%
 Laser Operation: Continuous
 Laser Structure: Single Mode Laser
 Fan Angle Line Generator: 4°, 15°, 35°, 45°, 60°, 75°, 90°
 Minimum Line Thickness: <1mm up to 1 meter
 Fan Angle Cross Line: 25° full fan angle
 Minimum Line Thickness: <1mm up to 1 meter
 Spot Size: Adjustable or Collimated
 Minimum Spot Size: <60µm at <10" distance
 Environmental Protection: 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: 4" long x 0.785" diameter
 Housing: Hard black anodized finish
 Operating Temperature: -10°C to +50°C
 Storage Temperature: -40°C to +80°C

Specifications subject to change without notice.

LL-1100-BK Adjustable Bracket Consists of

- Adjustable angle Set Screw Security
- Hard black anodized finish
- Two lock down screws
- Full 360 rotation
- Single fastener

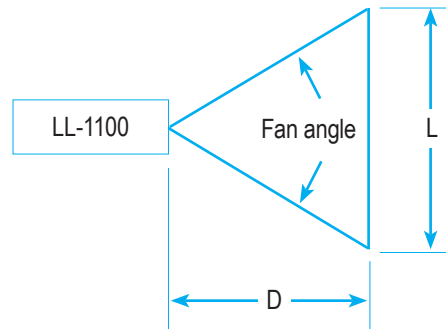


Fan Angle Selection Guide

L: Line Length D: Distance a: Factor

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

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



Model Numbers

Laser Generator	Fan Angle	Factor A	Laser Cross Line	Full Fan Angle	Laser Spot	Spot Size
LL-1100-04-L	4°	0.07	CL-1100-25-CL	25°	LL-1100-00-S	Adjustable
LL-1100-15-L	15°	0.26				
LL-1100-30-L	30°	0.54				
LL-1100-45-L	45°	0.83				
LL-1100-60-L	60°	1.15				
LL-1100-75-L	75°	1.53				
LL-1550-90-L	90°	2.00				



Complies with CDRH 21CFR 1040.10