

# Laser Pointer Series Operation Manual

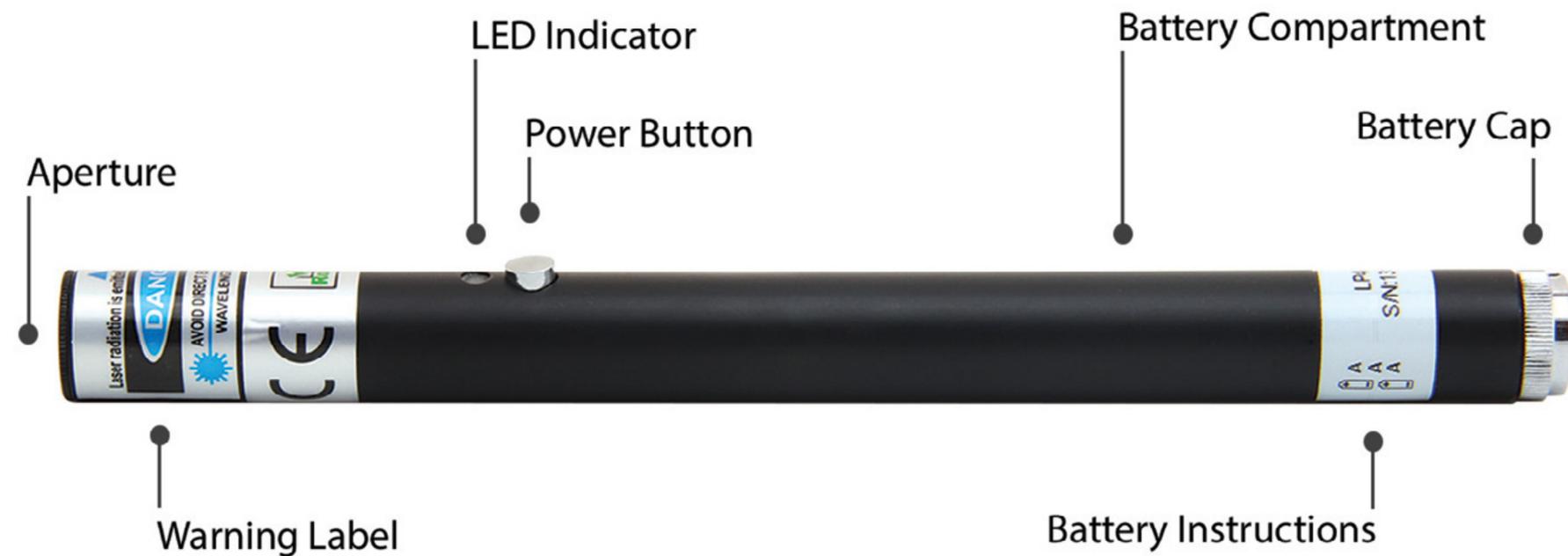
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## LASER DIAGRAM



## TECHNICAL SPECIFICATIONS

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|                    |   |
|--------------------|---|
| Series:            | Laser Pointer Series  |
| Dimension:         | Ø14mm x 171mm   |
| Weight:            | 70 grams  |
| Laser Class:       | 3R / 3B   |
| Available Colors:  | Violet, Blue, Green, Red, Infrared  |
| Wavelength:        | 405nm   450nm   515nm   532nm   635nm   650nm   808nm   980nm                                 |
| Power Output:      | 5 - 80mW   5 - 80mW   5 - 15mW   10 - 150mW   5 - 130mW   5 - 80mW   5 - 400mW   5mW - 300mW  |
| Beam Diameter:     | < 2.5mm   < 2.5mm   < 1.5mm   < 1.5mm   < 2.5mm   < 2.5mm   < 2.8mm   < 2.6mm                 |
| Beam Divergence:   | < 2.8mRad   < 2.8mRad   < 2.0mRad   < 2.0mRad   < 6.0mRad   < 6.0mRad   < 6.0mRad   < 6.0mRad |
| NOHD:              | 5 - 23m   5 - 23m   8 - 14m   12 - 44m   3 - 14m   3 - 11m   3 - 24m   3 - 21m                |
| Required Eyewear:  | O.D. 2+   |
| Power Consumption: | < 500 mA  |
| Power Supply:      | 2 x 1.5V AAA Batteries  |
| Battery Lifetime:  | 30 - 60 minutes   |
| Mode/Switch:       | Momentary On / Off, Constant Wave   |
| Duty Cycle:        | Continuous  |
| Diode Lifetime:    | > 5,000 Hours   |
| Warranty:          | 12 Months   |

## LASER OPERATION



### Battery Instructions

The Laser Pointer Series lasers are powered by 2x AAA batteries. Both alkaline or rechargeable batteries will work with this laser.

To get started, open the battery compartment by twisting the battery cap counter clockwise until it is completely removed. A label near the opening of the battery compartment shows the proper polarity of how the batteries are to be inserted. Place the batteries into the laser now. When complete, screw the battery cap back onto the laser by twisting clockwise.

### Laser Activation

To turn the laser on, point the laser away from you, press and hold the power button.

To turn the laser off, simply release the power button.

For pulsed laser models using the Smart-Click system, press and release the power button to activate constant wave mode. Press and release the power button a second time to activate pulse mode at frequency of 2Hz. Press and release the power button a third time to turn the laser off.

The LED power indicator turns on when the laser is powered on.

**Did you know?** Based on experience, the number one reason why your laser is not working is because the batteries are inserted incorrectly. Open the battery compartment and double check the polarity of the batteries with the instructions on the label.



## LASER SAFETY

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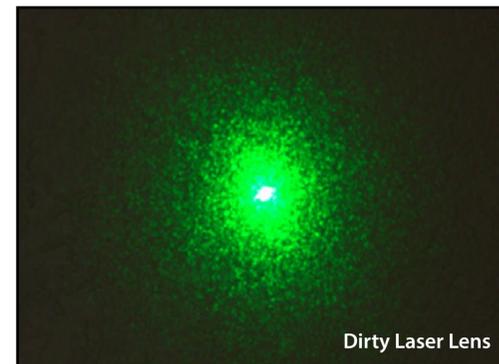
Lasers are powerful devices that emit a coherent beam of light with the potential to cause severe and permanent eye damage. Use common sense and utmost caution when dealing with any laser. Even a low power laser can be potentially dangerous if handled improperly. Lasers are not toys, below are some laser safety tips you should keep in mind when operating a laser:

1. Avoid direct or indirect contact with the eye or skin.
2. Always point the laser away from you and anyone around you.
3. Do not point the laser at reflective surfaces such as a mirror or window. A reflected laser beam can still be potentially hazardous to your eyes.
4. Never view a laser pointer using an optical instrument, such as binocular or a microscope.
5. Wear laser safety glasses when working with a laser.
6. Do not allow children to operate a laser even if supervised.
7. Remove the batteries when you are no longer working with the laser, this will prevent the laser from being accidentally activated.
8. Do not point a laser at moving motor vehicles or aircrafts. This will cause momentary blindness to the driver or pilot putting potential hundreds of passengers at risk.

## MAINTANENCE

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There is no routine maintenance required for this laser. While this is so, the lens of the laser may become dirty resulting in a scattered laser beam and spot. To fix this problem, you can perform the simple cleaning procedure outlined below:



### Lens Cleaning Procedure:

**What you need:** microfiber cloth for lens cleaning, q-tip, and lens cleaning solution (optional)

**Step 1:** Wash your hands thoroughly with soap and water making sure to dry them completely before starting this procedure.

**Step 2:** Remove the batteries from the laser so it cannot be accidentally activated.

**Step 3:** Place the microfiber cloth over the aperture of the laser. Using the q-tip, slowly push the microfiber cloth through the aperture and onto the lens of the laser diode approximately 5mm - 10mm inwards. When you have reached the lens, gently move the q-tip from side to side and rotating in a circular motion.

**Step 4:** Remove the q-tip and microfiber cloth, insert batteries, and turn the laser on to see if the lens is clean. Repeat if necessary.

**Tip:** Put 1-2 drops of lens cleaning solution on the microfiber cloth to improve cleaning.

## STORAGE

Store the laser in a dry location with temperatures between 0°C - 50°C (32°F - 122°F). To prevent dust from entering through the aperture, store the laser within an enclosed box such as the one that came with the laser. Remove the batteries before storage.

## LIMITATION OF LIABILITY

SKY Lasers Ltd operator www.SKY-Lasers.com, including any of its subsidiaries or affiliates are in no event liable for any direct, indirect incidental, or consequential injuries or damages associated with the use of this product. By purchasing from www.SKY-Lasers.com, you hereby agree be fully responsible for adhering by any ownership laws for this product in your jurisdiction and will not use this product in violation of any local, state, federal, or country regulations. You should also agree to the following:

I am an adult at least 18 years old.

I take full responsibility for my actions with this product.

I will use common sense when working with this product and follow safety protocols to the best of my knowledge.

I will not point this product at myself, people around me, nor animals.

I will not point this product at moving vehicles or aircrafts.

I understand that pointing a laser at an aircraft is illegal and a felony in the United States.

I will wear laser safety glasses when operating this laser.

## WARRANTY

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SKY-Lasers.com warrants the Laser Pointer Series, Handheld Series, and Portable Series lasers for 6 MONTHS against defects in workmanship and materials. The warranty does not cover normal wear and tear, or damage due to accident, abuse, misuse, modification, water, pets, children, or 'acts of God.'

Disassembling your laser will void this warranty.

All defective lasers will be replaced or repaired subject to the full discretion of SKY-Lasers.com.

Our warranty only extends to the original owner, beginning on the day of purchase, and only to products purchased from our website or an authorized reseller.

This is only a portion of our warranty statement, you can send us an email to get more details.

To claim your warranty, send your inquiry to [myskylasers@gmail.com](mailto:myskylasers@gmail.com) making sure to include the following information:

- Full Name
- Order ID
- Reason for Claim (in detail)

