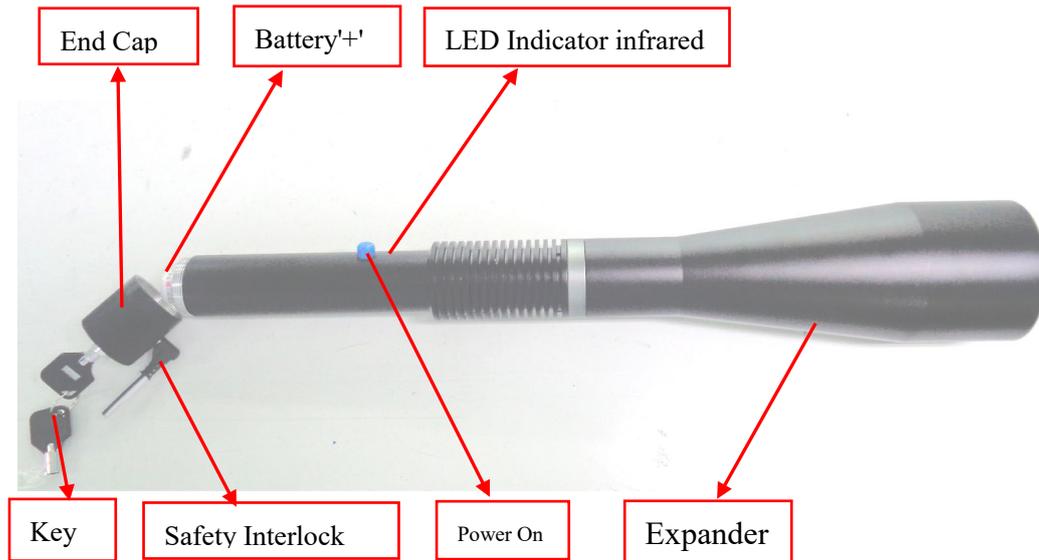


Operating Instructions for Falcon Series Bird Abatement Lasers



Caution-Use of controls or adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

Note: The laser should only be operated after the case temperature of the laser system returns to room temperature to avoid damage to the laser.



1. Product features

- 1.1. Operating temperature should be between 10°C-35°C. Otherwise, the laser will not work well. The best laser operating temperature is 25°C. Do not touch any element of the PC board. It is strongly advised to mount the laser system on a thermally dissipating surface. Failure to comply with this procedure may cause permanent damage to the laser.
- 1.2. If the laser system needs to be installed into equipment, please make sure the airflow is clear. If necessary, turn on extra fans for heat dissipation.
- 1.3. To conserve energy do not keep the laser on continually for longer than 30 seconds.

2. Operation

- 2.1. Put on appropriate laser safety goggles.
- 2.2. Unscrew the end cap and install two “CR123A” batteries with positive side up.
- 2.3. Remove shutter from laser aperture.
- 2.4. Insert safety interlock into end cap.

Note : Pay attention to interlock notch and insert all the way.

- 2.5. Insert the key switch, push and turn the key 90 degree clockwise.
- 2.6. Push power button. After 5 seconds the red LED turns on, and the laser starts to work.
- 2.7. Closing method is reverse opening method.
- 2.8. To prevent dust from accumulating on the optics you should always return the shutter to the aperture when not in use.

3. Operating Environment

3.1. Ambient Temperature: 10-35°C

25±3°C (bottom plate temperature /recommended temperature)

NOTE: It is not recommended to operate the laser outside of this temperature range for prolonged periods. The unit is designed to shut down if the laser exceeds operating temperature limits. Failure to comply with operating temperature may cause permanent damage to the laser. All lasers are designed with ESD protection.

3.2. It should also be noted that the laser must be operated in an environment with low vibration to meet the power stability specifications.

3.3. Humidity: 80±10% (RH)

If the air humidity overruns the figure, the working capability of the laser system will be affected indirectly (e.g. intracavity crystal deliquescence, circuit board short etc.). And operate the laser in an environment in which there is normal aeration.

4. Warranty and maintenance

4.1. The warranty is 6 months from the shipping date.

4.2. This warranty will not apply to those products which have been repaired or altered other than in accordance with the terms of this agreement.

4.2.1. Abused, misused, improper handling in use, or storage, or used in an unauthorized or improper manner or without following written procedures supplied by manufacturer.

4.2.2. Original identification markings or labels have been removed, defaced or altered.

4.2.3. Any other claims not arising directly from defects in material or workmanship.

4.3. Laser should be operated in a clean and dry environment.

4.4. In case you have any question during operation, contact the laser representative.

4.5. Please do not open the laser head without instructions from manufacturer. Laser protective eye wear must be worn while using this product.

4.6. Please use the laser according to the operation instructions.

