



Operator's Manual

Bird Gard Laser



Laser Definition

The Bird Gard Laser is a hand-held laser device that provides a convenient, effective, and humane approach for driving birds away from areas where they are not wanted. This Operator's Manual provides the necessary information on the safety, maintenance, and operation of the Bird Gard Laser.

Legal Classification

Class 3 IIIb

It is a hand-held device specifically designed and manufactured for the purpose of bird control, and meets current Australia and New Zealand Laser Safety Standards (AS/NZS 2211).

Laser Specifications

- Size — approximately 20 cm in length
- Weight — < 1 kg
- Laser wavelength—650 nm
- Laser output —> 50 mW (class 3 IIIb)
- Power — 9V alkaline battery
- Effective distance —> 500 meters
- Variable size beam
- Beam diameter at output aperture—50mm
- Minimum beam divergence—.60 milliarc, full angle
- Nominal hazard zone for human eye safety (10 second exposure without blinking) - 90 meters at narrowest beam setting



Prolonged exposure to the laser could result in eye injury. The Bird Gard Laser can be used at varied operational ranges, but should never, under any circumstances, be directed towards another individual.

Features

- Tested and proven against most species of birds; long term solution.
- NO noise — no chemicals — fewer complaints about use.
- Design safety features: Integral key lock, Power-on LEDs and chime, Trigger safety, and 3 second trigger-on delay.
- Requires minimal training (5-10 minutes).
- Clear large areas within minutes.
- Tests have shown that repeated use (3—10 days) will substantially reduce or eliminate the targeted species. Occasional follow-up may be required.
- Light, easy to operate with pistol grip handle and trigger for off/on.
- Rugged design will provide years of trouble-free service.
- Minimal maintenance—only requires lens cleaning and battery replacement.
- Weather resistant carry case and cut foam insert for storage.

Occupational Health & Safety Requirements

To conform with OH&S requirements the following conditions must be adhered to when the Laser is in use:

- **DO** have trained responsible operators
- **DO** wear safety glasses
- **DO** be aware that (at some angles) the laser beam can reflect off surfaces such as glass, mirrors and calm water

- **DO NOT** point at people
- **DO NOT** point at aircraft
- **DO NOT** point at marine craft
- **DO NOT** point at moving vehicles
- **DO NOT** point at houses and buildings

The Bird Gard Laser is only to be used as outlined in this Operator's Manual. Any deviations could result in eye injury.

Bird Gard Laser—Safety Features

The Bird Gard Laser is designed with four levels of safety features:

1. A key control interlock in the form of a keyed switch located on the rear panel of the unit;
2. Mechanical safety in the form of a trigger safety pin located on the side of the unit;
3. An audible/visual laser ON indicator;
4. An emission delay.

Operation

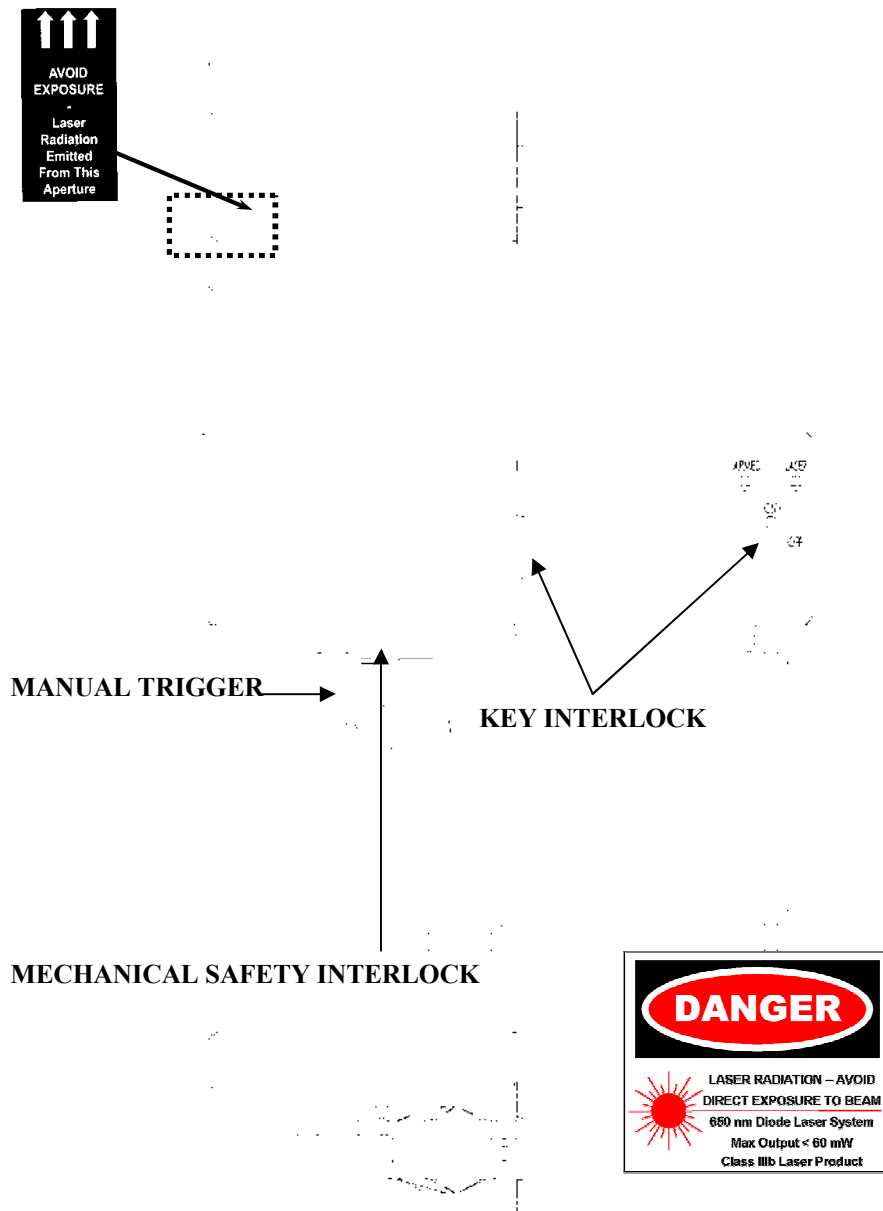
The key control is the principal safety interlock. When turned to the **OFF** position, the laser is fully disabled and cannot be turned on.



The key should never be stored with the laser when it is not in operation. This will prevent operation of the device by persons unfamiliar with safe operating procedures of the laser. Key cannot be removed when in the ON position.

- *To conform with Occupational Health & Safety requirements; safety glasses must be worn when operating the laser.*

BIRD GARD LASER IDENTIFICATION & MARKINGS



START UP PROCEDURE

- Point Laser towards the ground
- Insert key and turn clockwise to the ON position
- Red light will shine telling you that the Laser is ARMED
- Keeping your finger off the trigger, pull out the safety pin (above trigger) to the ON position
- Point the Laser down and depress the trigger. The ARMED light will flash repeatedly signaling that the Laser is about to operate
- The Laser is now operational and a red LED light will turn on the right hand side where it says Laser. As long as this light is on the Laser is operating.
- Take the pressure off the trigger and the Laser will turn OFF and go to armed. To operate press the trigger and the armed LED light will flash briefly until the laser is operating again.
- Note the BEAM SIZE SWITCH turn it anti-clockwise until the knob stops moving this will give you the MAXIMUM SIZE DOT (diffused beam) and the SHORTEST RANGE.
- Turn the knob clockwise and you will get the SMALLEST MOST CONCENTRATED BEAM with the LONGEST RANGE.

Laser Use To Disperse Nuisance Birds

- Designed for use between dusk and dawn & low-light conditions
- Use to deny access to normal roosting site
- Point BG Laser in general direction of birds being targeted
- Can be used very effectively to clear buildings such as: warehouses, retail stores and hangars
- Laser is not designed for outdoor use unless it is a cloudy day
- *Birds eyes have a different structure therefore pointing the laser into their eyes is ineffective.*

Water Birds

- Use BG Laser beam to reflect off water (spot appears)
- Move spot out towards birds (stop/start manner)
- Try to mimic predator movements

Tree Birds

- Point BG Laser at the base of the tree and work your way up
- Move the Laser back and forth while you walk around the tree
- Ensure that the tree is clear (dense foliage provides hides birds)

Birds in Buildings

- Track the spot at the target bird, remember they have to see it to be repelled
- When the bird flees target the spot where they are trying to land

Birds become frightened when the beam reflects off water, foliage or other birds. It is unnecessary to have the laser beam touch the birds for it to be effective. When the roost has been cleared birds are unlikely to return that night. Field -testing has shown that between 3 -7 nights of continued laser use to deny access to their normal roost has a significant impact upon the daytime and nighttime bird population.

Recommended Use to Maintain Control

After the normal roosting site habit has been broken, birds will send out “scouts” periodically to see if the roost is now OK. Re -introduce the laser to prevent the flock returning.

Bird Gard Laser Maintenance

The Bird Gard Laser is relatively maintenance free, where battery replacement and simple cleaning are the only actions required of the user. There are no user serviceable components inside the device and under no circumstances should the user attempt to gain access to the interior of the device. Doing so will void the warranty. Access to the laser compartment may defeat many of the inherent safety features of the device and could result in exposure of Class IIIb laser radiation.

Battery Replacement

The Bird Gard Laser operates on a 9 -volt battery located in the handgrip. Access to the battery is accommodated through the side panel of the handgrip.

To access the battery, remove the lower screw from one side of the handgrip and pivot the panel back from the bottom. This will allow removal and replacement of the battery. After realigning the side panel, carefully replace the screw, securing the side panel.



Cleaning the Bird Gard Laser Lens

It is recommended that care be taken to avoid getting the output lens dirty and to clean it only when necessary. When necessary, ensure that the mechanical safety is engaged, the key control is in the off position, and the key is removed. Clean the lens by gently wiping the outer surface of the lens with a lint-free lens tissue. The Bird Gard Laser is a delicate optical device and should be handled accordingly. When the Bird Gard Laser is not in use, it should be stowed in the storage and shipping container provided.

Liability

Having no control over the use of any product once in the Buyer's possession, Bird Gard Pty Ltd assumes no liability associated with the use of the Bird Gard Laser. Under no circumstances is Bird Gard Pty Ltd, its officers, employees or agents, liable for any loss, damage, or expenses of any kind arising out of the use, or inability to use this product, or the suitability of use for any particular task.



Bird Gard Pty Ltd (the warrantor) will repair or replace this product with new or refurbished parts, free of charge, from the date of the original purchase in the event of a defect in materials or workmanship, as follows:

Materials: One (1) year from the date of original purchase.

Labor: Six (6) months from the date of the original purchase.

Laser Module: The laser light source is warranted for a period of one (1) year from the date of purchase.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials or workmanship, which occur during normal use as described in the Operator's Manual.

This is a precision, delicate optical device, similar to a 35mm single lens reflex camera or a video camera—it should be treated as such, with care and proper handling. Please refer to the Operator's Manual for proper handling instructions.

The warranty does not cover damage which occurs in shipment or failures which are caused by products that are not supplied by the warrantor or failures which result from accident, misuse, abuse, neglect, mishandling, alteration, maladjustment of consumer controls, modification, rental use of the product, or service by anyone other than a Bird Gard Pty Ltd, service person. Except for the battery compartment, the unit is sealed and should not be opened by the purchaser. Opening the sealed portions of the Bird Gard Laser™ result in voiding of this warranty.

For warranty service, contact Bird Gard Pty Ltd for a RETURN AUTHORIZATION NUMBER, then send the Bird Gard Laser™ in its original shipping container, postage paid, with a copy of the purchase receipt to the address below.

All merchandise must be fully insured and have correct postage. Bird Gard Pty Ltd will not be responsible for improper postage, items lost in shipping, or damage incurred during shipping.

Limits and Exclusions

There are no express warranties except as listed above.

The WARRANTOR shall not be liable for incidental or consequential damages resulting from the use of this product, or arising out of any breach of this warranty.

All express and implied warranties, including warranties of the merchantability and fitness for a particular purpose, are limited to the applicable warranty period set forth above.

Some states do not allow the exclusion of limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

This warranty gives you specific legal rights and you may have other rights which vary from state to state.

If a problem develops with this product during or after the warranty period, please contact the manufacturer at the service address for additional information.



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