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Safety Warnings

Read and observe all safety labeling on this device.

Do not remove warning labels from this device.

Never look directly into, or at reflected laser beams.

Do not point towards people, roads, footpaths or vehicles.

Do not direct laser beams up into the sky at any time.

Do not project laser beams onto highly reflective surfaces. Only people over 18 who have read this manual can install this device.

For indoor or under-cover outdoor use only.

Do not place unit in or near water. Do not mount while standing in or surrounded by water.

Do not spill liquids into or onto unit. If this happens, disconnect the power immediately.

Mount above a height of 2 meters. Project beams above eye level.

Do not attempt to disassemble or repair the unit, this can lead to electric shock and hazardous laser exposure.

To prevent over heating check the fan filter for blockage regularly, in dusty environments the filter will need cleaning often, do not block the cooling inlet or outlet.

The only user servicing that can be done is: 1. cleaning the air filters, 2. cleaning the glass window. return to supplier for any other servicing or repairs.

THE MANUFACTURER TAKES NO RESPONSIBILITY FOR DAMAGE CAUSED BY MODIFICATIONS OR INAPPROPRIATE USE.

	 WARNING	
CLASS 3B LASER PRODUCT		
AVOID EXPOSURE TO BEAM NEVER AIM AT AIRCRAFT IT IS UNSAFE AND ILLEGAL		
Scan code or visit LaserSafety.info/3B		

Package Contents

PLEASE OPEN PACKAGING AND CHECK CONTENTS



1. MANUAL
2. INDOOR BIRD LASER
3. HANDLE
4. POWER SUPPLY (12 VOLT)
5. SPARE FAN FILTERS
6. KEYS
7. HANDLE KNOBS
8. WOOD & METAL SCREWS

Indoor Bird Laser 500 Components



1. WINDOW DUST HOOD
2. LASER APERTURE WINDOW
3. INDOOR BIRD LASER
4. MULTI POSITION MOUNTING HANDLE

5. POWER SWITCH
6. KEY SWITCH
7. COOLING FAN INLET
8. POWER CORD



Mounting Options



WALL SCREW MOUNT

The laser can be screwed to a wall.

The handle has holes for different mounting angles.

FLAT SURFACE OPTION

It can be screwed to the underside of a beam or rafter.

The releasable zip tie from the power cord can be used to help secure the power cord.



Mounting Options



FLAT SURFACE MOUNT

The laser can be sat on a solid flat surface.

The handle can be used to achieve the desired tilt angle.

BEAM MOUNT

The Indoor Bird Laser can be screwed to the top of a beam.

Mount the laser in a corner or an end of the building to get maximum coverage.



Setup Instructions



Once mounted in a suitable position plug the laser into a power outlet and position yourself beside, below, or behind the laser. Do not stand in front of the laser.

Check there are no other people in front of the laser and turn on the power switch.

Turn the switch to the left for 24h mode, on all the time.

Turn to the right for daytime operation only.

The switch will illuminate blue when the power is on.

It will project a rectangle showing the animation area for 12 seconds when first turned on.

Position the rectangle to cover the desired area. Try to cover as many roosting and nesting areas as possible. Covering the entry point of the birds is also recommended.

The bottom of the rectangle should remain above the height of any people, vehicles, or animals that will be in the area.

Ensure none of the laser beams can escape through doors, windows, other openings and up into the sky, lasers are a hazard to aircraft.

Cycle the power switch to repeat the setup rectangle as many times as necessary to position the rectangle as desired.

Once setup correctly tighten the handle knobs firmly. Ensure the laser is mounted firmly to prevent the animation area moving to unwanted areas.

After 12 seconds the laser will play different animations and sweep patterns on a random 2 minutes on, 30 seconds off cycle.

Setup is complete at this point.

To disable the laser, turn the key off and remove it.

Tips for Success



Study the bird infestation problem before installation: species of bird, entry & exit points, nesting and roosting locations, flight paths, hours of activity.

Most small bird species have a lifespan of approximately 3 years, in badly infested buildings the effectiveness of the laser will increase over this period due to the attrition of the original habituated birds.

Removing evidence of birds beforehand will help prevent birds returning- nests, food, droppings, dead birds, nesting material, bird related smells.

For large or badly infested buildings, or where a high percentage of eradication is required we recommend installing 2 lasers at opposite ends or corners of the area, this eliminates all shadowing and significantly increases effectiveness.

Any L shaped or other complex shape buildings will need 2 or more lasers for full coverage

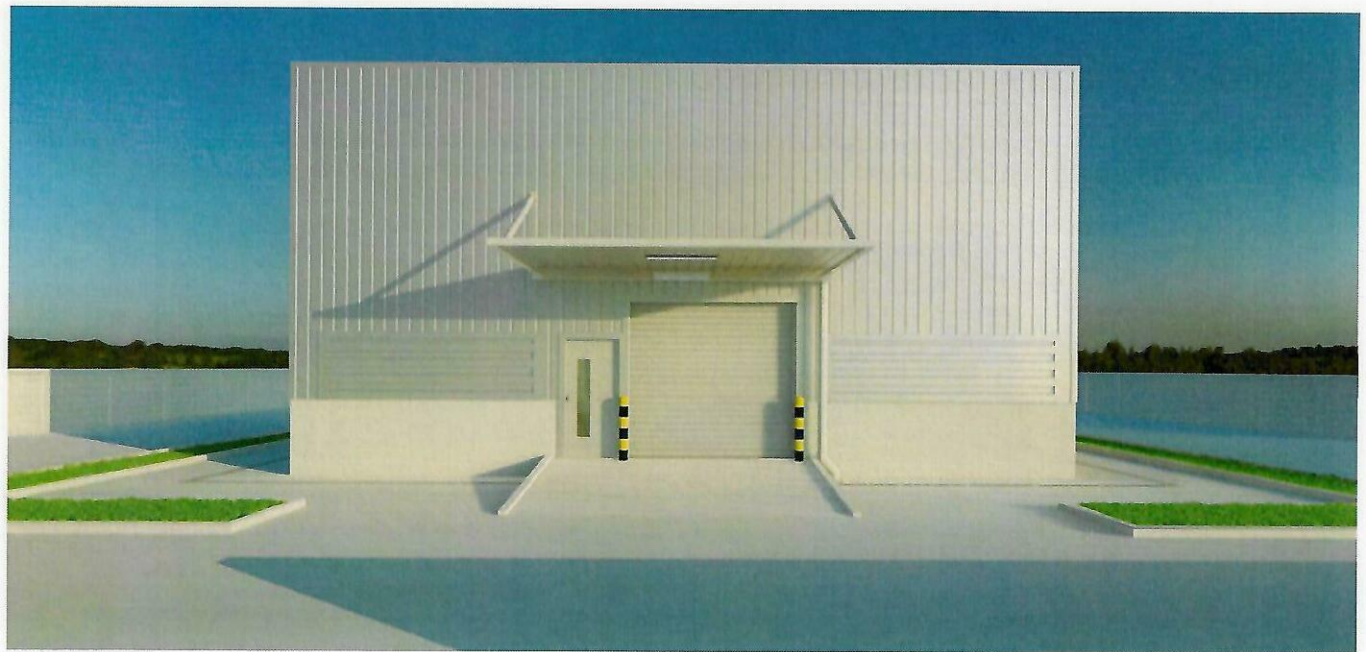
If 1 laser is to be used in an area a green laser is best.

If 2 or more lasers are to be used in 1 area we recommend using a combination of red and green lasers.

Moving the laser occasionally will help prevent habituation and will stop nesting in areas shadowed from the laser beams.

Tips for Success

CONTINUED



To prevent over heating check the fan filter for blockage regularly, in dusty environments the filter will need cleaning often.

The plastic fan cover pops off to access the filter for cleaning. Swapping the filter on the back with the filter on the underside will also help.

Mounting the laser so it sweeps the birds entry point will increase effectiveness. Birds strongly dislike being lasered in flight.

Installing a laser in a new building before the birds move in is very effective, in most cases the birds never move in.

Buildings with no exposed food present are less likely to have birds return.

Buildings with alternative nesting sites nearby (e.g. trees) are easier to eradicate birds from.

It is common to also see a reduction in rodent numbers, through aversion to laser beams and reduction of birds eggs.

Specs



INPUT VOLTAGE	12 – 15v DC
INPUT CURRENT	0.25A – 1.5A
POWER CONSUMPTION	3.5 – 23w
FUSE	3A
LASER HAZARD CLASS	3B "Avoid exposure to beam"
LASER POWER	5 – 499 milliwatts
LASER FREQUENCY	400–700 nano meters (visible light)
LASER TYPE	Diode laser, pulsed
SCANNING ANGLE	80° Horizontal, 50° Vertical
AMBIENT TEMPERATURE	-20° to +50°C
SIZE	200mm x 160mm x 110mm.
WEIGHT	1.7 kg
INGRESS PROTECTION	IP30
HOUSING	Aluminium
POWER ADAPTER	100 – 240V AC input 12v DC 2A output 5.5/2.1mm plug

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