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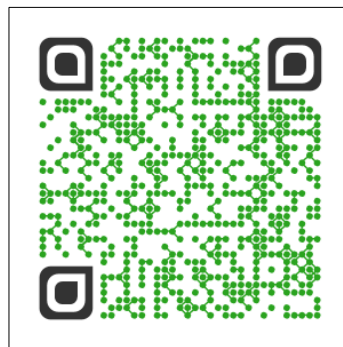
Innovation dedicated to farmers' help and assistance

LIGHTTRAC[®] INSTRUCTIONS FOR USE



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LighTrac® Instructions for Use

You have just purchased a LighTrac® laser bird scaring device. Reading this instruction manual will help you get the most out of your appliance. You must follow the instructions in these instructions for use and keep them in a safe place so that you can consult them at any time.

Your LighTrac® set includes:

- ➔ One LighTrac® bird repellent laser
- ➔ One specially-adapted cleaning cloth
- ➔ A lithium battery – CR 123A
- ➔ Storage box

If you have any problems with your LighTrac® frightener, call AgriProTech customer service on +33 (0)2 98 96 08 12 or send an email to contact@agriprotech.fr.

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I. Specifications

Laser	Value
Laser class	2M
Wave length	532 mm
Divergence	< 0.02 mrad
Service life	5000 H
Power source	One CR123A lithium battery
Dimensions	Diameter 54 mm max – Length 290 mm
Weight	0.3 kg
Operating temperature	- 10°C ~ 45°C
Storage temperature	- 20°C ~ 50°C

II. Global view



<p>1 - Laser beam output</p> 	
<p>2 - Rotating handle This is used to adjust the aperture of the laser beam and thus the size of the projected beam.</p>	
<p>3 - Screw cap / Push button. Used to turn the laser beam on or off. This part can be unscrewed to accommodate the supplied battery. Caution, pressing this button activates the laser.</p>	

This device is CE marked, which indicates that it complies with the European directives in force (health and safety of users, people and the environment).

However, use that does not comply with the instructions listed in this manual may pose a danger to users or those around them.

AgriProTech declines all responsibility regarding the use of this LighTrac® laser because it is impossible for the company to control the use of the product once the customer has received its hardware. **It has been developed and designed for frightening off birds only.**



Before use, make sure that use of the laser will not create a hazard to persons, and observe all precautions described in this manual.

III. Safety instructions



Never aim the laser at people's eyes. This laser is not a toy. Keep out of the reach of children. For professional use only.

The use must be carried out on an area that does not include risk zones (e.g. pedestrian or car traffic lanes, residential areas, reflective surfaces, etc.).



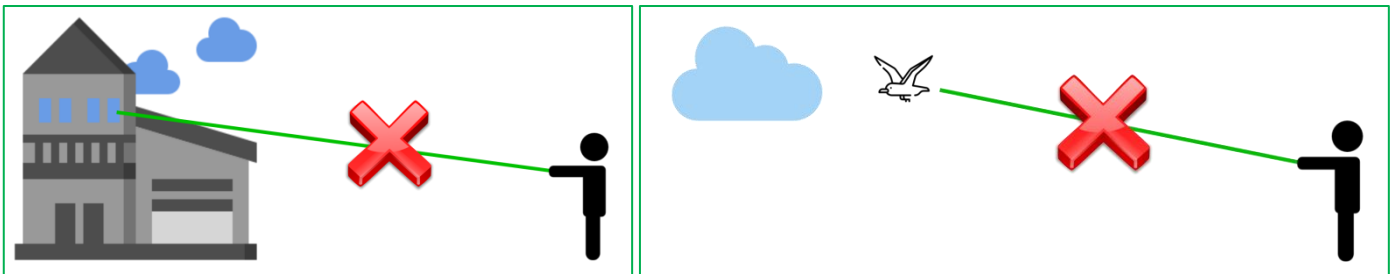
Do not directly expose the eyes or look at the laser with optical instruments. Direct eye exposure or exposure to glare may result in eye damage.

In case of direct eye exposure to the laser, it is advisable to consult a doctor.

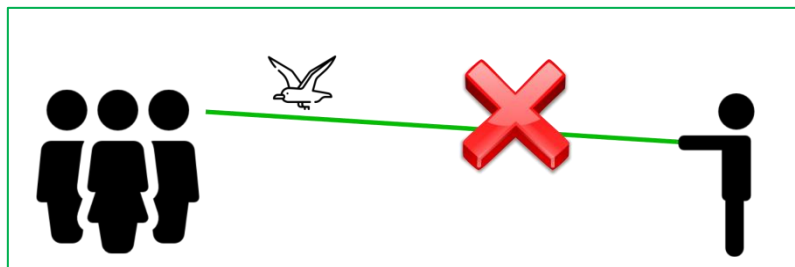
Do not use if the product is damaged or if a defect is detected on the product. Use of a damaged or defective product may result in exposure to hazardous laser radiation.

Do not drop the laser. Shocks can damage it.

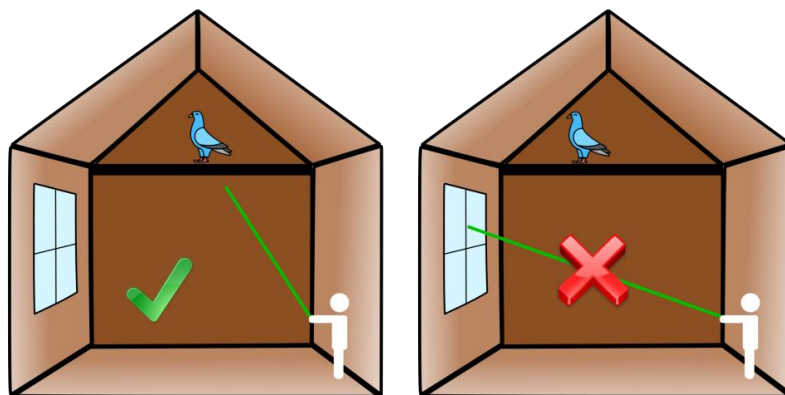
If the temperature changes abruptly, condensation may form at the output of the laser torch.



Never point at the sky / aeroplanes, reflective surfaces or houses / buildings.



Never point the laser at people.



Never point the laser at windows.

IV. First use

Begin by pointing at the floor and then point the laser in the desired direction. By doing so, you will be able to better control the laser beam.

1. **Aim toward the ground when inserting the batteries for the first time.**
2. Unscrew the cap
3. Insert the supplied battery in the direction shown in the illustration
4. Screw the cap back in
5. Press the push button to turn on the laser, keeping it **facing the ground**
6. Aim the laser at the area where the birds are located.
7. **Move the laser so that the birds can see it moving** over the surface to be protected. It is the sight of the moving laser that will drive them away. **Aiming at the birds or their eyes is unnecessary and not recommended.**
8. Do not point the laser at hazardous surfaces (*see Section III*).



V. Tips for use

a) **Impact of weather conditions for an outdoor frightener**

The laser will be more visible and therefore more effective in periods of low light:

- on cloudy or rainy days
- during the night
- at the start and end of the day
- during fog

b) **Precautions for use**

Caution, the laser is not waterproof. In case of high humidity, clean it with a soft cloth to dry it.

VI. How to use this laser to effectively repel birds



In order to effectively scare birds away, it is advisable to **combine several scaring methods** (sound scares, kites, balloons, etc.) to make the threat as realistic as possible, especially when bird activity is high.

When birds are “nesting” in the area to be protected: start by cleaning the area in question and blocking access to the nests with suitable nets or spikes.



Beware, **some species are protected**. Find out about current legislation before implementing scaring techniques. **Do not aim at the eyes of birds of any species.**

Always start by pointing towards the ground, then gradually reach the area to be protected. In this way, it is easier to control the path taken by the laser. Then **gently sweep the area to be protected with the laser**, so that the birds can see it moving around them (do not aim at the birds or their eyes).

Regular use of LighTrac® (**several 10-minute scaring sessions daily**) leads to a decrease in bird numbers. The movements of the emitted green beam acts on their survival instinct and they end up considering the treated area as dangerous.

VII. Species sensitive to laser scaring

Numerous species are kept away by laser technology.

Laser scaring is effective on most species (excluding domestic poultry and birds of prey). Frequently observed rates of decline in bird frequentation of protected areas are as follows:

- ➔ 1st year: between 70 and 90% fewer birds
- ➔ 2nd year: between 90 and 100% fewer birds

Finally, we advise you to carry out all types of scaring outside nesting periods. The efficiency of the device will be better if it is carried out before the birds settle on a breeding territory. In addition, some species “aggressively” protect their young and it can be dangerous to visit breeding grounds during these seasons.

VIII. Maintenance

1. Device storage and maintenance

Regularly clean the body and lens of the laser torch with a soft, dry cloth such as the one provided. Do not use any liquid products to clean it.

When not in use, LighTrac® should be stored in a sheltered, dry and well-ventilated place (between -20°C and 50°C).

2. Waste management

Refer to local regulations for recycling your LighTrac®. Do not throw in the household rubbish.

Recycle batteries in the depots reserved for this purpose.

3. Changing the batteries

1. Aim toward the ground when inserting the batteries for the first time
2. Unscrew the cap
3. Insert the supplied battery in the direction shown in the illustration
4. Screw the cap back in

Do not use damaged batteries.



IX. Trouble-shooting

Problem encountered	Possible solution(s)
Laser beam does not turn on	<ul style="list-style-type: none"> ➔ Check that the battery is inserted the right way round ➔ Try to press the push button to turn on the laser ➔ Check the battery charge or try again with a new battery

X. Warranty

The manufacturer's warranty is limited to one year for all purchases. The invoice serves as proof of purchase and must be kept by the buyer.

This warranty covers:

- The spare parts and supplies needed to repair defective products for one year.
- All defects in materials and mechanical and electronic components (laser module defect) with the exception of all wearing parts (batteries etc.).

Defective products corresponding to the above situations will be repaired or replaced subject to prior acceptance by customer service. The costs of returning the goods shall be borne by the buyer. It is therefore imperative to get in touch before returning any product on +33 (0)2 98 96 08 12.

Do not attempt to disassemble the laser to repair it yourself.

The manufacturer's warranty does not cover :

- Malfunction due to an accident, misuse of the device or negligence on the part of the user.
- Transport of the device without adequate protection.
- Incorrect use of the device.
- The battery supplied



It is no longer applicable if :

- The device has been disassembled (or battery changed).
- The malfunction does not directly affect the operation of the device (e.g. slight scratches).
- The device has been dampened or submerged.

The warranty does not cover the efficiency of the device. Indeed, no means of scaring can guarantee 100% effectiveness because many factors come into play (pressure from birds to feed, compliance with instructions for use, etc.).

We want to know what you think!

You can send us your comments or ideas about our **LighTrac® bird repellent laser** by mail to 7, rue Ernest Tibulle | ZA de la Villeneuve Braouic 29300 QUIMPERLE - FRANCE
by email to contact@agriprotech.fr,
or by telephone to +33 (0)2 98 96 08 12.

The AgriProTech team thanks you.

