



## **STORAGE PROTECTOR**

### **ENGLISH DIRECTIONS FOR USE**

#### **DIRECTIONS FOR USE**

For your own safety, and to obtain best results from this appliance, please read these instructions carefully before using your appliance.

#### **FEATURES**

This appliance will not produce any radio interference. It meets all national and European requirements. Full compliance has been ensured, and the necessary declarations and documents have been submitted by the manufacturer.

- This appliance has been designed to create lighting effects that will scare birds off, and pigeons in particular.

- Produces a green-colour laser beam, with a variety of preprogrammed movements.

- Use a timer to turn off the device when it is not needed

#### **BEFORE USE**

- Before using the appliance, check that it has not suffered any damage in transit. If it is damaged, do not use the appliance, and please contact your vendor.

- Important: This appliance left our factory in perfect condition and properly packed. It is essential that the user should follow safety instructions and warnings given in this manual. The guarantee is invalid in the event of damage caused by inappropriate use. The vendor will accept no liability for defects or problems arising as a result of failure to heed warnings given in this manual.

- Keep this manual in a safe place for future consultation. If you sell the appliance, ensure that it is sold complete with the manual.

## **Check the contents:**

- One STORAGE PROTECTOR appliance - Two keys (for the key-operated switch)
- Power-supply cable
- Plug for connection of the connectors.
- Directions for use



\*\*\* To operate your STORAGE PROTECTOR : please insert the plug into the slot « ON »


Also insert the plug into the back of the device and tighten the screws.


## **SAFETY INSTRUCTIONS:**

**NOTE:** In order to minimise the risk of electrocution, never remove the lid from the appliance. There are no components inside the appliance that can be replaced by yourself. Servicing and maintenance are to be carried out only by qualified technicians.

An arrow inside a triangle warns the user of high voltage, without insulation, inside the appliance, which can mean a risk of electrocution.

An exclamation mark inside a triangle advises you there are instructions relating to operation and maintenance to be found in the manual supplied with the appliance.

This symbol means: for use indoors only. 

This symbol means: read the directions for use 

This symbol represents the minimum retreating distance to be observed, in other words the minimum distance between the projector and the area to be illuminated. This distance must be greater than 1 metre.

- In order to protect the environment, please recycle packaging whenever possible.
- A new light effect can produce unwanted smoke and/or odours, which will normally disappear after a few minutes' use.
- In order to prevent any fire risk or electrical discharge, do not expose the appliance to rain or high humidity.
- To prevent the formation of condensation inside the appliance, give a few minutes to allow the appliance to adjust to the ambient temperature upon arrival in heated areas after shipping. Condensation will prevent the appliance from functioning properly, and may even cause damage.
- This appliance is intended for indoor use only
- Do not insert any metal objects or pour any liquid inside the appliance. No object containing any liquid is to be placed on top of the appliance, as this would incur a risk of triggering an electrical discharge or causing a malfunction. If any foreign body arrives inside the appliance, immediately disconnect the power supply.
- No naked flames, such as lit candles, must be placed on top of the appliance.
- Place the appliance in a well-ventilated place, well away from any inflammable materials or liquids. The appliance must be fixed at least 50 cm away from walls.
- Do not cover up air-vents; this would create a danger of overheating.
- Do not use the appliance in a dust-laden environment, and clean it regularly.
- Do not leave the appliance within reach of children.
- Inexperienced persons are not to use the appliance.
- The maximum ambient temperature when using the appliance is 45°C. Do not use it above this temperature.
- Wall temperatures of the appliance can reach 85°C.

- The supply cable must always be in perfect condition. Turn off the power supply immediately if the cable is crushed or otherwise damaged. To avoid any risk of electric shocks, the cable must be replaced by the builder, his agent or a qualified technician.

- The appliance must be earthed in accordance with standard safety regulations.

- Do not connect the unit to a dimmer switch.

- Always use the suitable certified cables when installing the appliance.

- In order to prevent any electrical discharge, do not open the appliance. There are no components inside that can be changed by the user.

- Never repair or short-circuit a fuse. Always replace a damaged fuse with a new fuse of the identical electrical specification.

- In the event of a serious operational problem, shut down the appliance and contact your retailer immediately.

- The bodywork and lenses must be replaced if they are visibly damaged.

- Use the original packaging if the appliance needs to be shipped.

- It is forbidden for safety reasons to make any modification to the unit that has not been specially authorised by the parties responsible.

Important: Never gaze directly at the light source! Do not use the appliance in the presence of epilepsy sufferers.

### **LASER SAFETY INSTRUCTIONS:**

- According to regulation EN/IEC 60825-1, this laser belongs to class 3B. Direct exposure of the eyes to the beam can be hazardous.



**DANGER: LASER RADIATION!**



Avoid exposing the eyes directly to the laser! Laser radiation can damage the eyes and/or skin. All protection measures are to be enforced for safety reasons.

- This product emits laser radiation at wavelengths ranging from 400 to 700 nm, and produces lighting effects intended to scare birds off.

- Light given out by lasers is unlike any other type of light source with which you are likely to be familiar. The light given out by products of this type can cause damage to the eyes if it is not controlled and used in an appropriate manner. The light from a laser beam is thousands of times more concentrated than the light produced by any other source of light. Such a concentration of light power can cause immediate and irreversible damage to the eyes, primarily by burning the retina (the area of the eye that is sensitive to light, located at the rear of the eye socket). Even though one does not get any sensation of 'heat' from a laser beam, it is quite capable of causing harm to vision, or even blinding, the user or the public.

- Laser beams are potentially dangerous, even at low doses or over long distances

- So, NEVER gaze at the window through which the laser beam is emitted, nor at the laser beam itself.

- Never aim the laser beam directly at people or animals, and never leave the appliance running within reach of the public without supervision.

- This laser may be used only to frighten birds. Use of a class 3B laser is authorised only when it is operated by qualified and properly trained operators.

- Depending on category, use of a laser can produce radiation that will permanently damage the eyes and/or skin. Laws on the use of laser products vary from one country to another. It is for the user to ensure he/she receives good advice, and that he/she applies the legislation and safety measures in force in his own country.

- The basic documentation and the cornerstone of safety standards relating to laser beams acts as guide in respect of the use of laser beams and laser-based systems, by laying down control measures for each of the four laser classes.

- **Supplier** cannot in any circumstances be held liable for any damage caused by faulty installation and/or non-qualified operators!

## **INSTALLING AT A HEIGHT**

Important: Installation is to be carried out only by qualified personnel. Incorrect installation can cause severe injuries and/or damage the appliance. High-level installation requires experience! Load limits must be observed, certified installation equipment must be used, and the appliance must undergo regular safety inspections.

Make sure the area below the installation site does not contain any itinerant persons during installation work, dismantling or maintenance.

Place the appliance in a well-ventilated position, well away from any inflammable materials or liquids. The appliance must be installed at least 50 cm from any walls.

The appliance must be out of reach of the public, and away from areas where the public passes by, or to which the public has access.

Before starting installation, ensure that the area for installation will support a local point at least 10 times the weight of the appliance.

Always use a safety cable capable of supporting 12 times the weight of the appliance during installation work. This second safety cable must be installed in such a way that no part of the appliance can fall more than 20 cm if the main support fails.

The appliance must be fixed securely. A rocking installation is dangerous and should not be entertained!

Do not cover the air-vents in order to prevent any risk of overheating.

The user must ensure that technical and safety installations are duly approved by an expert before using for the first time. Installations must be inspected every year by properly qualified personnel in order to ensure maximum safety.



### **CAUTION: HARM TO THE EYES:**

**always position the laser in such a way that no one will gaze directly into the laser beam. Ensure that the beam will not affect the public.**

## **HOW TO ADJUST AND USE THE LASER**

- This appliance is intended solely to scare off birds. It is not to be put to any other kind of use.

- The laser is more effective in darkness. It is therefore advisable not to use it by day.

- Regular breaks in use are essential to maximise the working life of the appliance, as it is not designed for continuous use.

- Do not switch the power on and off at rapid intervals, as this will reduce the working life of the laser cell.

- Always disconnect the appliance from the mains if it is out of use for a long period.

- In the event of a serious operational problem, shut the appliance down and contact your retailer immediately.

- Important: never gaze directly at the laser! Do not use the appliance in the presence of any persons who suffer from epilepsy.

Useful tip: each time you turn the appliance on, the motors will return to their 'initial' position by default, which means you will hear some noise for a few seconds, after which the appliance will be ready to function normally.

The STORAGE PROTECTOR operates completely automatically. No setting or adjustment is required. The appliance functions in such a way that the laser beam uses the maximum available space. The rapid movement of the laser beam frightens birds, making them take flight.

## **MAINTENANCE**

- Make sure the area below the installation site does not contain any itinerant persons during maintenance operations.

- Turn off the power-supply, disconnect the power cable and wait until the appliance has cooled down.

The following points must be checked during inspections:

- All screws used to install the appliance and its components must be securely fixed and must not be corroded.

- Supporting fixtures and structures (ceiling, girders, suspension) must be completely intact and show no distortion or buckling.

- If a vision lens is visibly damaged (i.e. deep cracks or scratches), it must be replaced.

- Cables must be in perfect condition. They are to be replaced without delay if any problem is identified, however benign.

- In order to protect the appliance from overheating, ventilators and air-vents must be cleaned every month.

- The appliance interior must be cleaned annually, using a suction cleaner or air jet.

- Cleaning of internal and external vision lenses and / or mirrors must be carried out from time to time to maximise light generation. The frequency of cleaning will depend on the setting in which the appliance is being used: humid, smoky or particularly dirty environments can produce a greater accumulation of dirt on the appliance's optics.

- Clean using a soft cloth and cleaning products used for normal glass. - Always dry off thoroughly.

- Clean the external optics at least once a month.

- Clean the internal optics at least once every 3 months.

Note: We strongly advise that you have internal cleaning carried out by qualified personnel

## **SPECIFICATIONS**

Power supply: AC 100-240V – 50/60Hz

Fuse: : 250 V 1,6A slow

Power of the laser: Laser 40mW Green ( $\lambda = 532 \text{ nm}$ )

Laser class: 3B Laser

safety standard: EN60825-1 2007

Size: 18 x 14 x 7 cm

Weight: 1,4 Kg