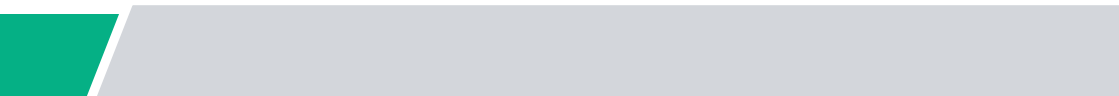
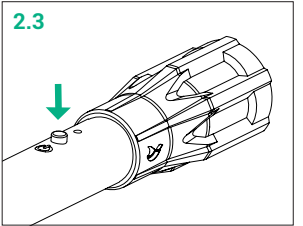
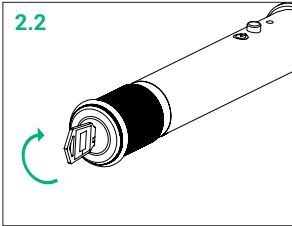
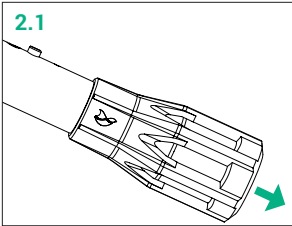
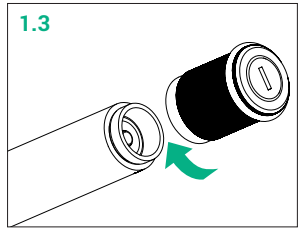
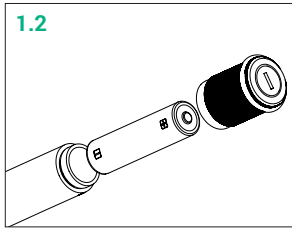
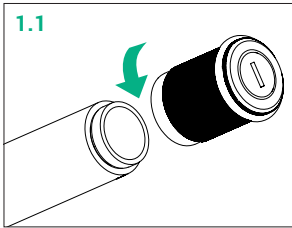
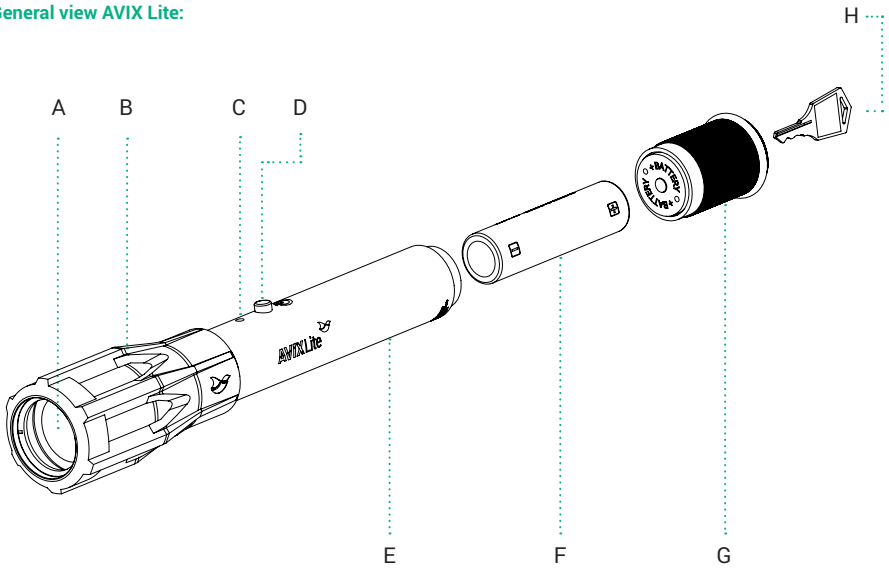


# AVIX Lite

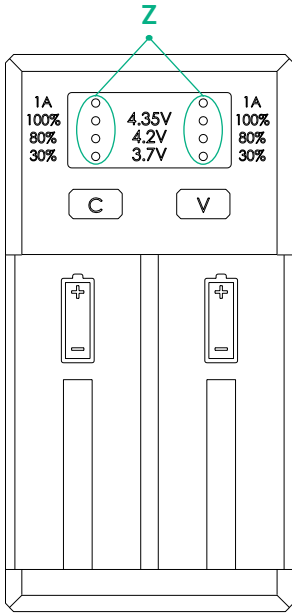
User manual - Version 1.0



General view AVIX Lite:



3.1



4.1



CAUTION - USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE

## English

### Explanation of general view (page 1)

<b>A</b> Laser aperture	<b>E</b> Battery compartment
<b>B</b> Protection rubber	<b>F</b> 18650 Rechargeable Li-ion battery
<b>C</b> Output indicator	<b>G</b> Screw cap
<b>D</b> ON/OFF button	<b>H</b> ON/OFF button

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8. Troubleshoot **page 9**

## Thank you for your purchase of the AVIX Lite


Bird Control Group offers silent and effective bird control products. Our patented optical technology is optimized to repel birds over long distances.


### Package contents:


- 1 x AVIX Lite
- 2 x Safety key
- 1 x 18650 Rechargeable Li-ion battery (incl. PCM)
- 1 x Battery charger (including power cables EU, UK and US)
- 1 x Storage box

Please keep this manual ready for future reference. This manual and possible updates hereof are readily available via the following link:

## Explanation of signal words

 **WARNING:** Indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury and/or property damage.

 **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and/or property damage.

 The "CE" mark indicates that this product complies with the applicable European Directives which relate to health, safety, environmental and consumer protection.



**Manuals**  
[avix.to/manuals](http://avix.to/manuals)

Scan the QR code and enter the following password to access the digital manual: **Best-Bird-Control-Solutions!**

Bird Control Group is not liable for the misuse of the AVIX Lite and/or its accessories. Bird Control Group has no control over the use, care, or maintenance of the AVIX Lite once it is in the hands of a user; and as such, accepts no liability for the use or misuse of the AVIX Lite. Under no circumstance are Bird Control Group, its partners, suppliers or employees liable for losses, damages or expenses of any kind resulting from: the use, misuse, or abuse of the AVIX Lite; or for the user's failure, willful or otherwise, to operate the product in a correct manner.

**⚠ WARNING:** Carefully read all safety warnings and all instructions. Retain all safety warnings and all instructions for future reference.

**⚠ CAUTION:** Prior to initial use of the product, determine if additional laws and regulations are applicable in your country or locale for use of the AVIX Lite.

**⚠ WARNING:** Prior to use, perform a risk assessment of the intended area of use and take precautions or control measures as necessary.

## 1. Technical specifications

### AVIX Lite

#### Laser

- class	3B
- power	40 - 80 mW
- wavelength	532 nm (green) continuous wave
- divergence	0.1 - 0.5 mrad
- diameter at aperture	25 - 30 mm
- lifetime	5,000 hours (under normal operating conditions)
- NOHD	60 m
- MPE	25.4 W/m <sup>2</sup> (assumed exposure duration of 0.25 seconds)
Power source	1 x 18650 rechargeable Li-ion battery (incl. PCM)
Input voltage	3.7 VDC
Power consumption	2 W
Dimensions	196 (7.7) x 40 (1.6) x 40 (1.6) mm (in) (L x W x H)
Weight	200 g (7.1 oz.)
Operating temperature*	-10 °C to 35 °C (14 °F to 95 °F)

### Charger

Power input	100-240 VAC 50/60 Hz or 9~12 VDC (1 A)
Power output	4.35 VDC / 4.2 VDC / 3.7 VDC / 1.48 VDC (2 x 500 mA)
Dimensions	132 (5.2) x 70 (2.8) x 35 (1.4) mm (in) (L x W x H)
Weight	126 g (4.4 oz.)
Operating temperature	-10 °C to 40 °C (32 °F to 104 °F)

\*Optimal performance of the device is guaranteed when the product has a temperature around room-temperature.

## 2. Safety instructions

**⚠ WARNING:** Avoid direct eye exposure to the laser beam. Direct eye exposure to the laser beam and exposure to direct reflections can result in serious eye damage. Exposure of the eye to diffuse reflection is considered to be acceptable.



**⚠ WARNING:** Viewing the laser output with optical instruments designed for use at a distance (for example, telescopes or binoculars) may pose an eye hazard.

**⚠ WARNING:** Consider use of protective eyewear when using this product. The appropriate protective eyewear or its specifications can be provided by Bird Control Group.

**⚠ WARNING:** This laser product is only to be used in a controlled area and is for professional use only.

**⚠ WARNING:** Never direct the device to an area where people are (or may be) present to prevent hazardous laser exposure.

**⚠ WARNING:** The laser beam of the AVIX Lite may cause dazzle or after images, particularly under low ambient light conditions. These effects may have indirect safety implications if experienced by users during the performance of safety-critical operations.

**⚠ CAUTION:**

- User must complete laser safety training before operating this product. A free online training course can be found at <https://academy.avix.com>.
- The AVIX Lite is to be used by adults only.
- The AVIX Lite is to be used only for the purpose of repelling birds.
- The AVIX Lite has no internal serviceable parts.
- To reduce the risk of injury, only use the supplied battery.

**⚠ WARNING:** Operate only in undamaged condition. Use of the product when damaged may result in exposure to hazardous laser radiation.

**⚠ WARNING:** If the laser beam doesn't switch off when it is expected to, immediately take the following actions:

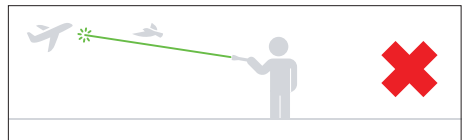
1. Direct the device towards a nonreflective surface nearby (e.g. point towards the ground).
2. Carefully unscrew the screw cap and remove the battery.
3. Place the product and its accessories into the storage box.
4. Return the product to your local dealer or Bird Control Group for investigation and repair.

The safety label shown in figure 4.1 on page 2 of this manual can be found on the bottom side of the AVIX Lite body.

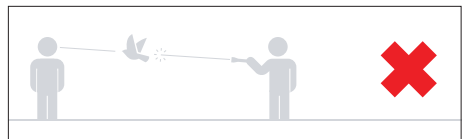


*If a person experiences direct eye exposure to the laser, this person should visit the assigned company-doctor. If no company doctor is assigned, persons should bring the applicable laser specifications and visit their own doctor.*

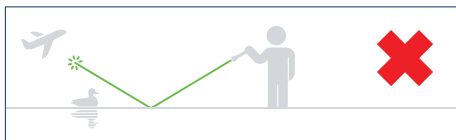
**⚠ CAUTION:** The images below depict incorrect use of the AVIX Lite. For your safety and the safety others, study these images carefully before operating the AVIX Lite.



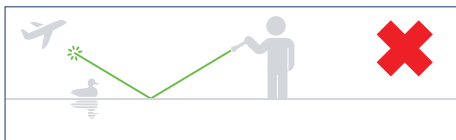
Never project the laser device toward aircraft, water vessels, or other vehicles.



Never project the laser device at humans.



Never project the laser device into the infinite sky.



Never project the laser device towards reflective surfaces such as mirrors, windows and metallic objects.

**⚠ CAUTION:** Projecting the laser device towards water can cause distractions.

Contact your local dealer or Bird Control Group for any questions related to product safety.

### 3. Functional use

#### Preparing for use

**⚠ CAUTION:**

- Point the laser toward the ground when inserting the battery.
- Do not drop the product. The product may malfunction if it is subjected to strong shocks or vibration.
- Avoid sudden changes in temperature: Sudden changes in temperature, such as those that occur when entering or leaving a heated building on a cold day, can cause condensation inside the device. To prevent such condensation, keep the device in the storage box until activating it for use.

Perform the following steps to replace the battery of the AVIX Lite:

1. Make certain the rechargeable battery is charged.

2. Turn the screwcap counter-clockwise to open the battery compartment (figure 1.1).
3. Insert the battery with the positive side facing the screwcap (figure 1.2).
4. Turn the screw cap clockwise to close the battery compartment (figure 1.3).

#### Using the AVIX Lite

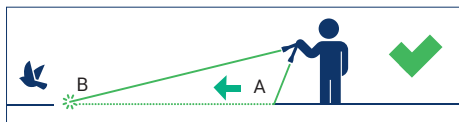
**⚠ CAUTION:**

- The AVIX Lite is a mobile laser device intended only for the purposes of repelling birds.
- Never project the laser into the eyes of birds or other animals.
- When using the AVIX Lite, always adhere to the safety precautions outlined in this document.
- The AVIX Lite is not suited for continuous use. Use for short repelling actions only.

Perform the following steps to prepare the AVIX Lite for active bird repelling:

1. Point the AVIX Lite toward the ground (figure 2.1)
2. Insert the safety key at the back of the device and turn it clockwise to unlock the Handheld. (figure 2.2)
3. Switch on the AVIX Lite by pushing the ON/OFF button (figure 2.3).

**⚠ CAUTION:** By pressing the ON/OFF button, the laser is activated.



For effective bird repelling, project the laser dot on the ground in front of you (A) and slowly move the dot toward the birds (B). Make sure no vehicles, people or reflective objects are present between you and the birds. The AVIX Lite should not be used like a gun, i.e., do not employ a "point and shoot" technique.

**Weather conditions:** The AVIX Lite is most effective during night, sunrise, sunset, overcast, rainy or foggy



weather conditions.

During bright weather conditions, make sure that the birds are positioned between the user and the sun. If not, bright sunlight could inhibit the repelling action.

**Moisture:** Ensure the AVIX Lite is kept dry. Remove any surface moisture with a dry cloth.

**Protected species:** Local regulations may prohibit the repelling of specific (protected) bird species. Always consult relevant laws and regulations before using the AVIX Lite.

## 4. Accessories

### Battery charger

Use the included battery charger to recharge the batteries.

1. Plug one end of the power cable or car charger adapter to the charger's power input. Plug the other end of the cord into a wall outlet or the cigarette lighter socket in your vehicle.
2. Insert the battery in the charger slot and make sure the positive battery pole corresponds with the (+) symbol on the charger (figure 6.1). Make sure that solid contact is made between battery poles and metal contact points. Once inserted, all the four status indicators light up for two seconds (Z in figure 6.1). Afterwards some of the lower status indicators will turn off, with at least one indicator blinking. This indicates that the battery is charging. Charging is completed when the three lower (green) status indicators are all continuously illuminated. It takes 2 to 3 hours to fully charge an AVIX Lite battery.

The charger monitors the charging status of the battery and will stop charging when the battery is fully charged. The battery charger is equipped with overcharge protection and reverse polarity protection. If a battery is inserted in reverse or if a defective battery is inserted, all four status indicators will

continuously blink.

### CAUTION:

- Only one battery should be inserted per charger slot.
- Non-rechargeable batteries cannot be charged with this battery charger.
- Use a power source corresponding to the voltage specified on the nameplate of the charger.
- Do not charge the battery in presence of flammable liquids or gases.
- Do not expose charger to moisture, water, rain, snow or spray.
- Never carry the charger by the power cord or yank it to disconnect from socket.
- After charging or before attempting any maintenance or cleaning, unplug the charger from the power source. Pull by plug rather than cord whenever disconnecting the charger.
- Make sure the cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- Do not operate the charger with a damaged cord or plug - replace these immediately.
- Only use the supplied power cables.
- Do not operate the charger or disassemble the charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Incorrect use or reassembly may result in a risk of electric shock or fire.
- Do not charge a battery when temperature is below -10°C (14°F) or above 40°C (104°F).
- Do not disassemble the charger. There are no user-serviceable parts inside.
- Keep the charger and the power cord away from children.

### Battery

#### CAUTION:

- To prevent product malfunction, always insert the battery using the correct orientation.
- Do not short circuit the battery.
- Misuse or abuse of the battery may result in leakage, burns, fire or explosion/disassembly resulting in

personal injury or damage to other devices.

- Eye contact with battery contents may cause severe irritation. If the battery is leaking and material contacts the eye, flush thoroughly with copious amounts of running water for 15 minutes. Seek immediate medical attention.
- Skin contact with battery contents may cause irritation. If battery is leaking and material contacts the skin, remove any contaminated clothing and flush the exposed area with copious amounts of running water. If irritation, injury or pain persists, seek medical attention.
- Inhalation of vapors or fumes released from multiple leaking batteries may cause respiratory and eye irritation. A high concentration of fumes or vapor may cause central nervous system effects including headache, dizziness and nausea.
- Do not swallow batteries. Irritation to the internal/ external mouth area, may occur following exposure to a leaking battery. If battery is leaking, contents may be irritating to respiratory passages. Move to fresh air. If irritation persists, seek medical attention.
- In case of fire, use dry chemical, alcohol foam, water or carbon dioxide as appropriate to extinguish a fire. In the initial stage of a fire, carbon dioxide extinguishers are typically more effective than water. Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Fight fire from a distance or protected area. Batteries exposed to fire must be cooled to prevent rupture. Use extreme caution when handling batteries that have been exposed to fire as they may explode or rupture.

## 5. Maintenance

### Cleaning the body

Use a soft dry cloth to remove dust and dirt from the AVIX Lite. Do not use any liquids.



**Important:** *Dust and other foreign matter inside the AVIX Lite may cause damage not covered under warranty.*

### Cleaning the lens

Lenses are fragile, therefore remove dust and dirt only with a cloth. To remove fingerprints and other stains, apply a small amount of lens cleaner onto a cloth and clean with care.

### Storage

If the AVIX Lite will not be used for an extended period of time, remove the battery prior to storage. To prevent mold or mildew, store the AVIX Lite in a dry, well-ventilated area.

### Do not store your AVIX Lite in a location that is:

- Poorly ventilated or subject to humidity of over 60%.
- Next to equipment that produces strong electromagnetic fields, such as televisions or radios.
- Exposed to temperatures above 65°C (149°F) or below -20°C (-4°F).

Always store the AVIX Lite in the supplied storage box. Always pack the AVIX Lite in the supplied storage box for transport. Do not store the AVIX Lite in a vehicle. Always store the battery, battery charger and accessories in the supplied box.

### Disposal



Do not dispose of the AVIX Lite, battery charger or battery together with household material. Recycle in accordance with the regulations applicable to your location.



Always recycle batteries.

## 6. Warranty

**⚠ CAUTION:** Any attempt to disassemble the AVIX Lite, successful or otherwise, voids the product warranty.

If you encounter defects, please contact your local dealer or Bird Control Group. Should any defect arise

within the warranty period as a result of production faults, free repair or replacement is guaranteed. The AVIX Lite has a warranty period of 12 months, starting at the date of purchase. In case of replacement, the warranty period of the original product purchased will remain valid.

**The warranty is invalid if:**

- Water damage or damage due to falling or jolting occurs.
- The serial number has been removed.
- Any repairs have been carried out by unauthorized individuals or companies.
- Any defects that occur as a result of misuse or use in environments that are not prescribed.
- The defect is due to wear of replaceable parts, such as batteries.

## 7. Spare parts

The following spare parts are available from your local dealer or Bird Control Group:

- 18650 Rechargeable Li-ion battery (incl. PCM)
- Screw cap
- Battery charger

## 8. Troubleshoot

**AVIX Lite**

Check the following if the AVIX Lite appears non-functional:

- Is the ON/OFF button activated?
- Is the battery charged?
- Is the battery inserted in correct orientation (as shown in figure 1.2)?
- Is the safety key inserted into the screw cap and turned?

**Battery charger**

Check the following if the battery is not charging:

- Is the power cable connected to the charger's power input?
- Is the power cable also connected to the wall outlet or the cigarette lighter socket?
- Is the battery inserted in the correct orientation? The positive battery pole should correspond with the (+) symbol on the charger.
- Is solid contact made between the pole of the battery and the metal contact point of the charger?
- Does the LED-indicator blink when the battery is inserted?

Contact your local dealer or Bird Control Group for questions concerning the AVIX Lite or its accessories.



AVIX Lite is a product of Bird Control Group.

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*Published by Bird Control Group*

*26-03-2021 - Rev. A.2*