



## **Aton HANDY**

### **OPERATING INSTRUCTIONS**



## **1.SAFETY INSTRUCTIONS**

**The manufacturer is not liable for damages caused by not observing the operating instructions and safety instructions. At the same time, the buyer loses the right to any warranty claims.**

**Always transport and store both parts of the lamp separately - the head of the lamp is unscrewed from the battery pack. Doing so may cause the lamp to switch on unintentionally, e.g. in your luggage, resulting in a fire.**

**Do not place the lamp on flammable surfaces. There is a risk of fire.**

**Do not operate the lamp in direct sunlight and at a higher ambient temperature, as this may cause fire, burns and damage to the lamp.**

Even a completely switched off lamp, left in direct sunlight, can reach very high temperatures, which can permanently damage it or cause burns to the user or fire when placed on flammable material. Therefore, never leave the lamp in direct sunlight, such as on the dashboard of a car, at high ambient temperatures. Risk of damage, burns and fire !

**Use only the charger provided in the package.**

**Never charge the lamp in high ambient temperatures or in direct sunlight.**

**Charge the lamp only in a dry environment as there is a risk of electric shock.**

**Never connect the charger to an incorrect voltage.**

**If the lamp or charger is damaged incl. cables, do not operate the device further, there is a danger of electric shock and fire.**

**When using the lamp, be careful not to shine with the reflector directly to your or somebody's eyes - there is a danger of eye damage.**

## **2. PACKAGE CONTENTS**

- diving light Aton Handy
- Li-ion charger 220V
- silicone grease
- operating instructions
- PES wrist cable
- set of spare O-rings
- protective case

### 3. BEFORE FIRST USE

You have bought the Aton Handy diving light, which despite its small size offers high performance, new intuitive control technology and advanced safety features.

Please read the enclosed manual carefully and contact us at [service@atonlight.com](mailto:service@atonlight.com) in case of doubt.

**The battery is not supplied in a fully charged state. It must be charged before first use.**

### 4. CHARGING

Do not charge in high ambient temperatures, in direct sunlight, in damp or frosty conditions.

Charge in a suitable, dry, covered place and on a non-flammable material.

Charge only with the supplied charger.

Disconnect the lamp after charging.

The supplied charger can be connected to the electrical network with voltage ~ 110V / 220V. Never connect the charger to a power supply that is not of the correct voltage.

Never use the charger if the wire insulation is obviously damaged. This may cause electric shock or damage to the lamp.

#### **Here's how:**

1. Connect the charger connector to the charging connector located in the battery case.
2. Plug the charger into a wall outlet. Mains ~ 110 / 220V
  - a) if the LED on the charger is red, the battery is charging,
  - b) if the LED on the charger is green, the battery is charged.
3. Disconnect the charger from the wall outlet, then the connector from the battery case.

#### **BATTERY MAINTENANCE:**

- never leave the battery in a discharged state after use, especially in a cold environment. It would lose its capacity. We recommend that you recharge the battery as soon as possible, regardless of whether it is partially discharged. Neglect of maintenance is not covered by the warranty.

### 5. PLACING THE LAMP INTO OPERATION

Lightly grease the two O-rings on the battery case and the surfaces in the head of the lamp on which they are moving.

Then insert the battery case into the head of the lamp. Tighten the two parts together so that there is no visible gap between them by turning the battery case in the clockwise direction (when viewed in the lighting direction). This makes the lamp ready for operation.

After tightening, there must be no visible gap between the two parts. Once this condition is met, it is undesirable and unnecessary to use excess force to tighten tightly again - re-opening could be problematic.

## 6. OPERATION AND FUNCTIONS OF THE LAMP

To switch ON, select individual modes and switch OFF the lamp, press the button marked with the ATON logo on the head of the lamp.

The ATON PRESS system is based on the evaluation of micro-deformation of the material at the point of compression. **It is important to learn how to operate the lamp before first use underwater.**

Pressing the lamp for the first time will switch it ON, and each press will switch cyclically between power levels :

**20% power - 480 lm      >      50% power - 1010 lm      >      100% power - 1830 lm**

**It is necessary to keep min. 1 sec. between each press.**

**Press the button twice and more quickly ( < 0.6s ) to switch the lamp OFF again.**

### **Thermal protection**

It protects the lamp against overheating outside the aquatic environment.

When the critical temperature of 50-55 °C is reached on the head surface, the lamp switches itself to the lowest power. If the ambient temperature is so high that there is still a temperature rise, the lamp turns OFF completely. Once the temperature has dropped to a safe operating level, the lamp can be reused without restriction.

### **Battery status indication by color LED**

It indicates the current battery charge status. This will warn user in time not to be left without a light source in a critical situation (e.g. in overhead environment or during a night dive) and have enough time to safely finish the dive.

**Blue** - fully charged, 90-100% capacity

**Green** - 30-90% capacity

**Red** - 0-30% capacity, discharged

**Do not forget to check the functionality of the diving light before starting the dive.**

**When using underwater, do not turn the lamp head. It could be unscrewed and damaged by water leaks.**

## 7. MAINTENANCE AND STORAGE OF THE LAMP

Before each dive, ensure that the lamp is properly charged and functional. Check the condition of the lamp for damage, especially the cleanliness and lubrication of both O-rings and the surfaces on which they move.

**The O-rings and threads on the lamp head and the battery case must be inspected, cleaned and greased with the grease provided with each disassembly. Otherwise you risk water ingress and damage of the lamp. Neglect of maintenance is not covered by the warranty.**

**Never insert metal (electrically conductive) tools into the battery charging connector. This will cause a short circuit and damage the lamp.**

**Do not connect any devices, such as connectors, wires, power and current sources, measuring equipment, other batteries or non-original chargers, to the lamp head or battery charging connector. This could result injury and irreversible damage to the lamp not covered by the warranty.**

**Do not use the lamp in the event of visible damage to either of the two power connectors.**

After each use, especially in salt water, rinse the lamp thoroughly with fresh water and then dry. Take special care to remove any small mechanical impurities and then to lubricate the O-rings and the surfaces on which they move. Use the supplied grease for lubrication provided with the lamp.

Specifications: HTS SILICONE GRAY (NSF-H1), <https://www.spanjaard.biz/>

In case of prolonged storage, we recommend checking the battery every 3 months and recharging if necessary.

**Always store both parts of the lamp separately, otherwise the battery voltage will drop faster and you will need to recharge it more often.**

Do not store the discharged lamp, as the battery capacity will be lost.  
Store the lamp only in a dry indoor environment where it will not be exposed to sunlight, high dust or moisture. Recommended storage temperature is 15-18 ° C.

## 8. TECHNICAL SPECIFICATIONS

Light output max 1830 Lumen

Constant current output - maintains constant light output

Utilises Cree XHP-50.2 cool white LED, with a lifespan of 50,000 hours

Color temperature 6500°K

Focus beam 10° or 28° (photo / video) optional

Control by Aton PRESS system, power steps 20% / 50% / 100%

Integrated Li-ion rechargeable battery pack 19.2 Wh or 25.5 Wh optional

Input voltage: max. 4.2 V

Input current: max. 2A

Overcharging and discharging battery protection, short circuit protection

Intelligent thermal control to avoid overheating

Battery status indication by color LED

Running time :

A. for battery 19,2 Wh 75 min. / 170 min. / 410 min. 100% / 50% / 20%

B. for battery 25.5 Wh 95 min. / 205 min. / 495 min. 100% / 50% / 20%

Borosilicate glass th. 5mm

Dimensions: length 159 mm x dia 48 mm

Weight: 334 g (109 g under water)

Material: hard anodized high grade aluminum alloy

Max. depth underwater - 200 m.

## 9. BATTERY, ITS LIFE AND POSSIBLE REPLACEMENT

The lamp contains a branded Li-ion battery-pack with protective electronics. Normal battery life reaches up to 800 charge cycles, provided proper handling, storage and maintenance conditions are observed. As the number of charge cycles increases, the battery capacity decreases as a result of normal wear and tear. The battery can be replaced by a new one during warranty and post-warranty service.



## 10. DISPOSAL OF AN OLD DEVICE

Dispose of your nonfunctional or old device need to be done properly, as this is electronic waste. Do not dispose of in municipal or mixed waste, but hand it in at designated collection points for free.

The user is obliged by law to return empty or damaged rechargeable batteries to designated locations.

By following the instructions for disposal of this product, you will help conserve natural resources, helping to prevent negative effects on the environment and the possibility of reuse of raw materials.

**Completely developed and manufactured in the Czech Republic**

### **Manufacturer :**

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### **The product meets the standards:**

EN 55015  
EN 61547  
EN 62471  
EN 60529

