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User's manual for diving lights

**FINN LIGHT**  
SHORT 1400 SMART  
LONG 1400 SMART



## 1. INTRODUCTION

Congratulations to your purchase of FINN LIGHT lamp. It will guide your paths to adventure. There are two versions of FINN LIGHT 1400 SMART lamps. The smaller one is SHORT and the one with a canister is LONG. The type is labeled on the box of your lamp.

## 2. PACKAGE INCLUDES

Model **LONG 1400 SMART**:

- head with thread cover
- canister with batteries and cable
- battery charger
- Goodman handle / optional Soft Handle
- canister holder
- elastic cord (not included in Soft Handle version)
- allen key
- service lubricant
- user's manual

Model **SHORT 1400 SMART**:

- head with thread cover
- body with batteries
- battery charger
- Goodman handle / optional Soft Handle
- elastic cord (not included in Soft Handle version)
- allen key (not included in Soft Handle version)
- service lubricant
- user's manual

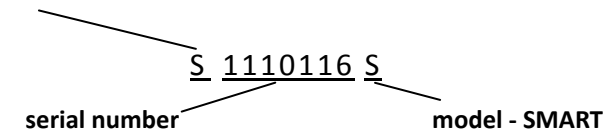
## 3. BEFORE THE FIRST USE

To achieve an ideal initial capacity setup of the light, the accumulators are stored charged at aprox. 50% of their capacity. Before the first use it is important to charge the battery to full capacity.

### Serial number explanation:

**S** = model SHORT

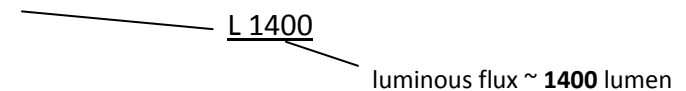
**L** = canister model LONG



### Explanation of the type indication:

**S** = model SHORT

**L** = canister model LONG



## **7. TECHNICAL SPECIFICATION**

Luminous flux: 1400 lumens

Temperature of light: cold white, 5000 – 8300 K

Cells type: Lithium-Ion

Input voltage: 16,8 V

Output current: 1350 mA

Run-times: Short:	mode 1	24 hrs	Long:	mode 1	48 hrs
	mode 2	4,5 hrs		mode 2	9 hrs
	mode 3	2,5 hr		mode 3	5 hrs

Both models are guaranteed for usage up to -200 msw (655 ft).

## **8. DISPOSAL OF AGED LAMPS**

Dispose functionless and aged lamp in a proper way. Bear in mind that it is an electronic waste. Do not throw it into a regular trash. You can return the appliance to your dealer.

## **9. SAFETY INSTRUCTIONS**

**!! Store and transport both parts of the light separated – unscrew the head from the body of the light. Otherwise the light could be accidentally switched on in the bag which could cause the fire !!**

**!! Don't put switched on light on the flammable surfaces. There is the risk of the fire požáru !!**

**WARNING!** The light which is switched off left on the sunshine could reach very high temperatures (over 60°C). The light can be destroyed or the heat surface of the light could burn the user.

Therefore **NEVER** leave the light on the direct sunshine if the weather temperature is high (for example in the car). There is the risk of the damage of the light, burn of the user or fire!

Do not put the activated lamp on flammable surfaces to prevent risk of fire.

## **4. CHARGING**

- Unscrew the head from the body - turn it clockwise (looking same way the light shines).
- Plug the charger's jack in the socket inside the lamp's body.
- Plug the charger in the wall socket. The charger's LED light is red, while the battery is being charged. Once LED turns green the accumulator is charged on approx. 80%. You can keep it on the charger longer to reach the maximum capacity. )When the light is completely discharged the charging cycle lasts 4 hours in SHORT version, 8 hours in LONG version.
- Unplug the charger from the wall and after that jack from the lamp's body. Save the energy.

Always use only the original battery charger that is included in the package!

### **Important notice**

Li-ion batteries don't have a memory effect. That's one of the basic characteristics. **We recommend to charge the accumulator after any usage.**

**!! You have to avoid any situation when you keep fully discharged accumulator in a frosty environment. For example – You put a discharged accumulator in a trunk of a car after dive and keep it there for the whole night. It will lead almost absolutely to irreversible damage of the accumulator. The time of performance of the light might be significantly reduced by this only one step. The bad maintenance is not covered by the warranty and the claims of damaged accumulator because of the bad maintenance will be refused !!**

## **5. MANUAL FOR FUNCTIONS AND USAGE**

Before the beginning of the dive screw the head clockwise to fix it into the lamp's body. The lamp is now ready for use. To switch the light on/off and change the mode turn the magnetic ring on the head.

If you turn, each position means the change.

The order of the modes is :

- Mode 1 = 10 % of total output (100 lumens) + test of capacity of accumulator
- Mode 2 = 50 % of total output ( 700 lumens)
- Mode 3 = 100 % of total output (1400 lumens)
- Switch off

\* test of the actual capacity of the accumulator :

- after every switch on of the lamp (Mode 1) the actual capacity of accumulator is signalized. (3x flash – fully charged, 2x flash – half charged, 1x flash – it's necessary to charge the accumulator)

**!! When changing modes or switching the light on please respect the stop positions of the magnetic ring when the light is used and/or stored. This is very important. If the magnetic ring is not in the right stop position then the light can be accidentally switched on when screwing the head to the body or the light will not work right !!**

#### **Heat Control :**

There are two favours of the heat control: at the same time it protects the lamp against overheating and the user against possible consequences of full output outside the water. After achieving the critical temperature the lamp automatically switches into Mode 1 (10 % of full output). Switching between modes is possible again after the temperature decreases on the safe level.

**TIP :** When the overheated lamp is left in Mode 1 outside water, cooling down is very slow. Immersion of lamp into water makes cooling immediate.

**!! This powerful light is not intended for use outside of the water in higher power levels (mode 2 and 3)!! Only on the weakest level (mode 1) the light can be used at the surface. But if the surrounding temperature is very high then we recommend not to use the light at the surface at all !!**

**!! The warranty doesn't cover the claims of burnt LED because of use at the surface in modes 2 and 3 !!**

#### **Warning signal of low capacity:**

When the capacity decreases under half of the full capacity, the signalization is activated. The lamp flashes periodically (once a minute). If the lamp stays in the actual mode, the rest of the accumulator capacity will be depleted in adequate period.

**TIP :** If the lamp is switched to lower output, it automatically checks the capacity again and continues in periodical flashing.

When switched to mode 2 the lamp offers 2 times longer period of operation.

When switched to mode 1 the lamp offers 10 times longer period of operation.

**! Keep in mind that the accumulator capacity is approx. half of the total capacity when it starts flashing!**

#### **Use in water :**

**!! Warning - never turn the head of the lamp clockwise (looking same way the light shines). Unscrewing the head completely leads to flooding and damaging the lamp! Switch the modes of the lamp only by turning the ring on the head !!**

## **6. MAINTENANCE, STORAGE, TRANSPORT AND MANIPULATION BEFORE/AFTER DIVE**

Threads and o-rings are necessary to be checked and lubricated after every dismounting and every recharging. If threads or o-rings are dirty, they have to be cleaned and then lubricated.

**! Notice: If threads and o-rings are not lubricated, you risk water penetration and it would be difficult to switch on/off the light under hydrostatic pressure !**

**!! The claims of the flooded light because of the bad maintenance are not covered by the warranty !!**

**!! Remove the head from the body/canister for transport !!**

There is the risk of accidental switch on. **! Prevent the risk of fire!**

**Remove the head from the body/canister for the storage!**

**!! Screwed head ready to use is in standby mode and takes the small power from the accumulator. If you store the light completed the accumulator loses its capacity and can be destroyed !!**

In case of longer storage the light has to be charged to the full capacity. Don't store the light discharged! If stored longer than 1 month the capacity could significantly decrease or the accumulator could be destroyed. Every 3 months it is necessary to discharge and then fully charge the light !

Optimal storage temperature is 15-18°C (59 – 65°F). Higher temperatures accelerate self-discharge and earlier recharge is needed.

**!! Warning! We strongly recommend screwing the head to the body/canister just before the usage. Unscrew the head immediately after the usage of the light to save the power. Only then you will have the rest capacity of the accumulator available for your next dive. Otherwise the accumulator is being discharged when the light is in "standby mode" !!**

**After each use in salt water it is necessary to wash the light with the fresh water.**