

User's manual for diving lights

FINN LIGHT SHORT 2000 LONG 2000



1. INTRODUCTION

Congratulations to your purchase of FINN LIGHT. It will guide your paths to adventure. There are two models of FINN LIGHT 2000 series. The cordless model is called SHORT and canister version is called LONG. The type is labeled on the box of your lamp.

2. PACKAGE INCLUDES

Model **LONG**:

- 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**:

- 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

Read this manual carefully and if anything is not clear to you please contact us or your reseller.

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.

Setting of Goodman handle: with the attached allen key fix the position of handle bar on Goodman handle to fit your palm. Adjust the length of the stretch cord. Stretch cord fix the light in the right position on your wrist and prevents the fall of the light off the hand. You can also tighten the handle socket of Goodman handle to fix the light body well.

CAUTION! The light body has to be fixed in the Goodman handle well so it allows the complete screwing the light head into the light body. Otherwise there is the risk of water leakage in the light which can cause the damage of the light. In this case the warranty can't be applied!

4. CHARGING

Charge the light on the dry place with the room temperature. Never charge the light on the direct sunlight, in hot or frosty environment!

How to charge the light:

1. Unscrew the head from the body - turn it clockwise (looking same way the light shines).
2. Plug the charger's jack in the socket inside the lamp's body.
3. Plug the charger in the wall socket. **The FINN LIGHT charger can be used in the voltage 220V and 110V. Never plug the charger in the socket with different voltage!! Pay attention to the right position of the charging cable. Check that the cables are not broken especially in the joint with the plug. If any kind of damage of the cable is visible never plug the charger in the wall socket and/or in the lamp body and contact the service center or the reseller immediately! Even small damage on the cable can cause the injury by the electrical current or damage of the light. In this case the warranty can't be applied.**
 - a) The charger's LED light is red, while the battery is being charged.
 - b) 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 cca 4 hours in SHORT version and cca 8 hours in LONG version.
4. Unplug the charger from the wall and after that unplug the jack from the lamp's body. Save the energy. **While unplugging the charger from the wall never pull the cable! Unplug the charger by holding the plug.**

Don't plug any devices other than FINN LIGHT charger (e.g. various connectors, conductors, measuring devices, source of current and voltage, different chargers...) in the connectors of light head and light accumulator. This can cause the injury by electrical current or damage of the light. In this case the warranty can't be applied!

Always use only the original battery charger that is included in the package! **Different charger can't be used as it can cause the damage of the accumulator which is not covered by the warranty!**

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 every 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

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.

Turn the magnetic ring in any direction and the light is on (200 lumen – mode 1). Another turn in clockwise direction switch the light into the stronger mode (1000 lumen – mode 2). You'll get full power after third turn in the clockwise direction (2000 lumen – mode 3). Turning counter clockwise will lead to the reverse procedure.

- Mode 1 = 10 % of total output (200 lumen)
- Mode 2 = 50 % of total output (1000 lumen)
- Mode 3 = 100 % of total output (2000 lumen)

!! 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 !!

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 !!

If the water comes in the light unscrew the head of the body completely after the dive, dry both parts and contact the service center.

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 !!

Do not put any metal objects into the area of accumulator e.g. if you want to clean the connector with screwdriver. There is very high level of electrical energy holding by accumulator which can cause the electrical sparks or arc following by the fire. Damage of the connectors by short circuit is not covered by warranty!

If you notice any kind of damage of connectors do not assemble the light and contact the service centre immediately.

!! 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" !!

Before every dive check the light properly. Accumulator should be charged enough and light should work well. Check the parts of the light which can cause the water leakage – check the clearness of o-rings, threads, check that none part of the light is mechanically damaged (the light body can be damaged if you put the air tanks on the light, the borosilicate glass can be damaged if the light fall in the stone..). In Long version check that the cable is in perfect condition (the cable can be damaged by pulling the light while standing on the cable, the cover of the cable can be worn..). If you have doubts about the conditions and function of your light don't dive with it and contact the service centre. Flooded light because of the mechanical damage is not covered by the warranty!

After each use in salt water it is necessary to wash the light with the fresh water. CAUTION: the light head has to be screwed on the body!!

7. TECHNICAL SPECIFICATION

Luminous flux: 2000 lumens

Temperature of light: cold white, 6500 K

Cells type: Lithium-Ion

Input voltage: max 16,8 V

Output current: 1250 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!!

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.

Serial number explanation:

S = model SHORT

L = canister model LONG

S 1110166
serial number

Explanation of the type indication:

S = model SHORT

L = canister model LONG

L 2000
luminous flux ~ 2000 lumen

Manufacturer:

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