



Finn light

User Manual

33388C01

2024-08

USER'S MANUAL FOR INTERSPIRO FINN LIGHT LONG 1400 SMART

OR:

(UW DIVERS SEARCH LAMP, 33341-01)

OR:

(DIVATOR CANISTER LIGHT, 33342-01)

(US, 33343-01 UK, 33344-01)

OR:

(DIVATOR CANISTER LIGHT PRO, 33345-01)

MADE FOR INTERSPIRO BY

FINNSUB.COM

ADVANCED TECHNOLOGIES

© 2024 INTERSPIRO AB, SWEDEN. THIS PUBLICATION CONTAINS OR REFERS TO PROPRIETARY INFORMATION WHICH IS PROTECTED BY COPYRIGHT. ALL RIGHTS ARE RESERVED. INTERSPIRO® AND DIVATOR® ARE REGISTERED TRADEMARKS OF INTERSPIRO.

THIS PUBLICATION MAY NOT BE COPIED, PHOTOCOPIED, REPRODUCED, TRANSLATED, OR CONVERTED TO ANY ELECTRONIC OR MACHINE READABLE FORM IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN APPROVAL FROM INTERSPIRO.

CHANGES OR UPDATES TO THIS PUBLICATION MAY BE MADE WITHOUT PRIOR NOTICE.

USER MANUAL

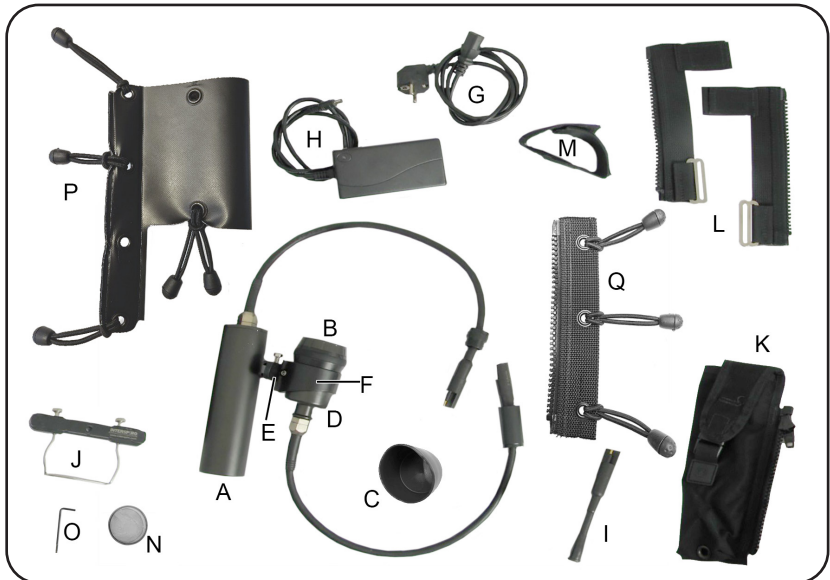
INTRODUCTION	4
LIGHT PACKAGE INCLUDES.....	4
BEFORE FIRST USE.....	5
CHARGING	5
ASSEMBLING THE LIGHT	5
FUNCTIONS	5
MOUNTING	6
USING THE LIGHT IN WATER	11
MAINTENANCE	11
TRANSPORT	12
STORAGE	12
TECHNICAL SPECIFICATIONS	12
SAFETY INSTRUCTIONS.....	12
DISPOSAL	13

INTRODUCTION

Congratulations to your purchase of an INTERSPIRO FINN LIGHT LONG 1400 SMART LIGHT. This light will provide years of good use and value to your diving. The version you have may also be called UW Divers Search Lamp or Divator Canister Light.

LIGHT PACKAGE INCLUDES

- A. Battery Canister Long 1400, with Li-ion batteries
 - B. LED Lamp Head
 - C. Thread Cover (delivered covering and protecting the threads on the Lamp Head)
 - D. Lamp Body
 - E. Slide
 - F. Lamp Holder
 - G. AC Cable (EU 98543-01, US 95589-51 or UK 95654-51)
 - H. Battery Charger, 100 - 240 V, 50/60 Hz
 - I. Cable Adaptor for Battery Canister charging
 - J. Rail Holder (30582-51)
 - K. Battery Pouch (55160-51)
 - L. Zip Mount Adaptors, Left and Right (30147-01)
 - M. Holder Strap (Only in UW Divers Search Lamp)
 - N. Silicone Lubricant
 - O. Allen Key 2,5 mm
- Soft Dry Bag (not shown in picture below)
Manual (not shown in picture below)
- P. Canister, Battery holder Divator Pro (011321-02)
 - Q. Pro accessory zip mount (55190-51)



BEFORE FIRST USE

The batteries in the Battery Canister are delivered charged to approximately 50%. To achieve the best capacity of the light it is important to charge the batteries fully before using the Light for the first time.

CHARGING

CHARGING WITH CABLE ADAPTOR:

1. Connect the AC Cable (G) and the Cable Adaptor (I) to the Battery Charger (H).
2. Connect the Cable Adaptor to the Battery Canister (A) cable.
3. Connect to a 220 V (110 V) wall socket.

CHARGING VIA THE LAMP BODY:

1. Connect the AC Cable (G) to the Battery Charger (H).
2. Remove the Lamp Head (B) from the Lamp Body (D) by turning it anticlockwise (the Lamp Body shall still be connected to the Battery Canister (A)).
3. Connect the Battery Charger (H) to the socket inside the Lamp Body.
4. Connect to a 220 V (110 V) wall socket.

The LED on the Battery Charger glows red when the battery is charging. Once LED turns green the battery is charged to approximately 80%. You can keep it on the charger longer to reach the maximum capacity.

If the battery is fully discharged, the charging cycle lasts 8 hours for the LONG model.

To stop charging, first unplug the AC Cable from the wall socket. Secondly, unplug the Battery Canister or the Lamp Body from the Battery Charger.



WARNING! ONLY USE THE ORIGINAL BATTERY CHARGER THAT IS INCLUDED IN THE PACKAGE!

It is recommended to always charge the battery canister after every use.



NOTE! DO NOT LEAVE A DISCHARGED BATTERY CANISTER IN COLD ENVIRONMENTS! THIS WILL LEAD TO BATTERY DAMAGE!

ASSEMBLING THE LIGHT

Clean and lightly grease the threads on the Lamp Head (B) with Silicone Lubricant (N) before assembling it with the Lamp Body (D). Carefully push the Lamp Head into the Lamp Body and turn the Lamp Head clockwise to fix it. Do not over tighten!

Connect the Lamp Body cable with the Battery Canister cable and lock the connection with the locking sleeve.

FUNCTIONS

SWITCHING THE LIGHT ON AND OFF

Switching the light on and off and changing between the different modes is done by turning the magnetic ring on the Lamp Head.

It is possible to turn the magnetic ring in both directions but it is recommended to turn it clockwise to eliminate the risk of releasing the Lamp Head. When turning the ring there is a "click" for each change of mode setting.

- Mode 1 = 10 % of total output (100 lumen) + indication of remaining battery level*.
- Mode 2 = 50 % of total output (700 lumen).
- Mode 3 = 100 % of total output (1400 lumen).
- Mode 4 = Switches the light OFF.

* *In Mode 1, the charging level of the battery is indicated.*

- *3 x "flash" = fully charged*
- *2 x "flash" = half charged*
- *1 x "flash" = it's necessary to charge the Battery Canister.*

HEAT CONTROL FUNCTION

The Light has a heat control safety circuit that automatically switches the Light into mode 1 (10% of full output) when reaching a critical temperature.

There are two benefits with this. First, it protects the Lamp Head against overheating and secondly, it protects from a Lamp burning at full output outside of the water, for example in a diving bag.

Switching between modes is possible again after the temperature has decreased to the safe level.



NOTE! IF AN OVERHEATED LAMP IS LEFT IN MODE 1 OUTSIDE OF THE WATER, THE PROCESS OF COOLING DOWN IS VERY SLOW. IMMERSION OF THE LIGHT IN WATER WILL MAKE THE COOLING DOWN PROCESS QUICKER.

MOUNTING

REMOVING, MOUNTING AND ADJUSTING THE LAMP HOLDER

The Lamp Holder (F) (with the Slide (E) attached to it) are delivered mounted on the Lamp Body. Use the 2,5 mm Allen Key (O) to loosen the screw on the Lamp Holder to adjust or remove the Lamp Holder from the Lamp Body. When the Lamp Holder is removed it is possible to loosen the Slide from the Lamp Holder by removing the two screws holding them together. Reassemble the Lamp Holder on the Lamp Body by sliding it on and tighten the screw moderately with the 2,5 mm Allen Key. Make sure that there are a 1-2 mm distance between the Lamp Holder and the Lamp Head.

MOUNTING THE LIGHT ON A DIVATOR BCW OR RESCUE BC

Lay the BCW or BC with the back side up. Detach the lower stainless steel mounting ring on the side you have chosen to mount your Battery Canister.

Place the Zip Mount Adaptors on a table as shown in picture.



The left Zip Mount Adaptor is for mounting on the Divator BCW's (or Rescue BC's) left side, and the right one is for mounting on the right side.

Open the velcro strap on the chosen Zip Mount Adaptor.

Put the velcro strap through the third slot in the webbing as shown in picture. (You might have to use a screw driver or similar tool to do this.)



Close the velcro strap.

Put the harness ring through the ring on the Zip Mount Adaptor as shown in picture.



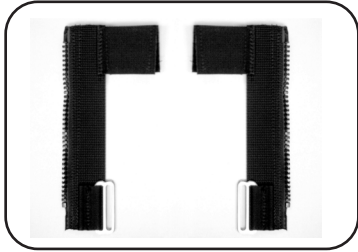
Put the harness mounting ring (on the connector strap) through the mounting ring on the BCW bladder, so that it looks the same as on the other unaltered side as shown in picture.



Attach the Battery Pouch (with or without the Battery Canister in it).
It is recommended to mount the “other” side Zip Mount Adapter at the same time.

MOUNTING ON A AGA BCD OR OTHER BC'S

1. Place the Zip Mount Adaptors on a table as shown in picture.



2. Place the AGA BCD with the cylinder side down.
3. Attach the right Zip Mount Adapter with the velcro strap to the right side on the back plate of the AGA BCD as shown in picture.
4. Attach the Holder Strap (M) to the mounting ring on the Zip Mount Adapter and fasten it on the AGA BCD as shown in picture.
5. Attach the Battery Pouch.



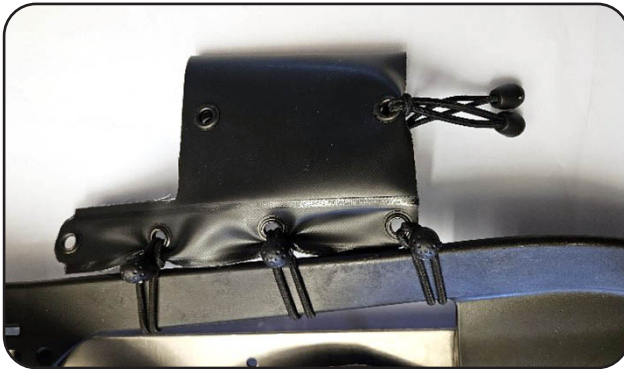
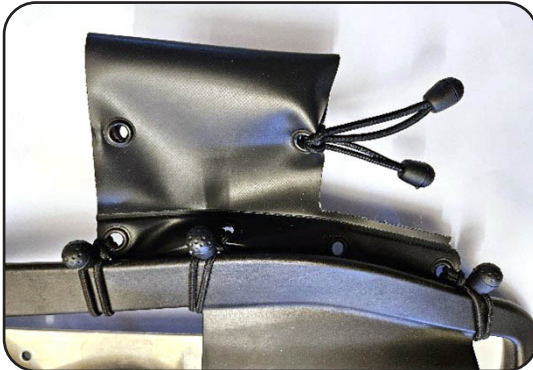
MOUNTING ON A DIVATOR PRO HARNESS

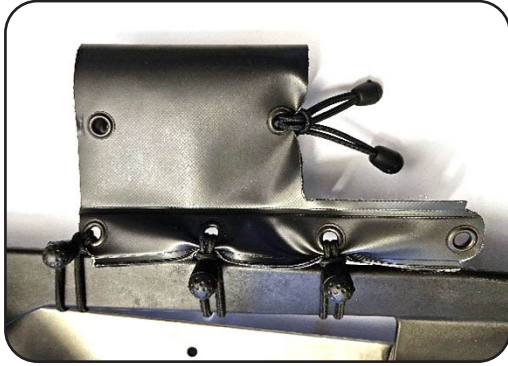
Mount the Canister Battery Holder Divator Pro on either, the Left or Right side of the Divator Pro Harness.



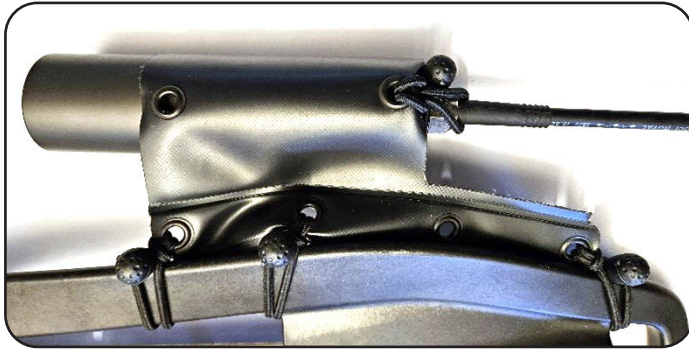
The holder can be mounted in three different positions making the height of the battery canister different. Try until you find your suitable position.

Wind the Elastic cord loop round the plastic side of the harness and push through the knob.





When the holder has been mounted, slide in the battery canister and guide the cable through both elastic cord loops.



Now you can connect the cable to the light head

MOUNTING WITH PRO ACCESSORY ZIP MOUNT

If you want to have the cable from the battery terminating upwards instead.

You can mount the Pro Accessory Zip mount (55190-51) in the same way as earlier described. Then use the Battery pouch (55160-51) to hold the battery canister.



FOR ANY OTHER MOUNTING

Use the “Weight Belt” strap on the Battery Pouch to mount the pouch on any other gear or equipment.



USING THE LIGHT IN WATER

It is possible to turn the magnetic ring clockwise or anticlockwise. Interspiro recommends to turn the magnetic ring clockwise when changing Mode setting of the Light underwater, this will prevent accidentally releasing the Lamp Head.

When the Light is turned ON, and attached to the Interspiro Full Face Mask, shield the Light with your hand if looking at or communicating with a fellow diver!

Holding the Lamp Head in your hand when swimming (searching) underwater enhances your visibility (contrast). When you need to work with your hands, slide the Lamp Body onto the Rail Holder. With some practise you can remove and reattach the Light onto the Rail Holder on the Full Face Mask underwater.

MAINTENANCE

Check and lubricate the threads and O-rings in the Lamp Body after every dismounting of the Light. If threads or O-rings are dirty, they have to be cleaned and lubricated slightly with some Silicone Lubricant.



NOTE! IF THREADS AND O-RINGS ARE NOT LUBRICATED, WATER MAY PENETRATE AND IT CAN BECOME DIFFICULT TO SWITCH ON AND OFF THE LIGHT DURING HYDROSTATIC PRESSURE.

The construction and shape of the Lamp Head and of the threads are designed to prevent tightening of the Lamp Head without lubrication and cleaning of the sealing parts!

Put a small amount of grease on the underwater cable connectors regularly.

Thoroughly wash the Light with fresh water after every use in sea water.

Wipe the Light and its parts with a clean and lint free cloth. Lubricate O-rings and connectors lightly with Silicone Lubricant. Leave to air dry in a cool and dark (shaded) place.

If the charging hole in the Lamp Body needs to be cleaned it is important to first detach the cable between the Battery Canister and the Lamp Body, otherwise the battery may be short-circuit (if using any kind of liquid for cleaning).

TRANSPORT

To prevent the risk of fire, disconnect the Lamp Head cable from the Battery Canister cable for transport. Otherwise there is a risk to accidentally switch on the light. Pack all parts in the Soft Dry Bag for transport and storage.

STORAGE

Disconnect the Lamp Head cable from the Battery Canister cable. For short term storage, you can leave the Lamp Head in the Lamp Body, after untighten it, to protect the Lamp Head threads. For longer storage, remove the Lamp Head from the Lamp Body and assemble the Thread Cover (C) on the Lamp Head to protect the threads. Be sure that all parts are completely dry! Pack all parts in the Soft Dry Bag for transport and storage.

If you store the Battery Canister fully depleted, the battery lose in capacity and can be destroyed! Stored Battery Canisters must be periodically charged to full capacity at least every three months, DO NOT leave the battery continually connected to the charger!



NOTE! ONLY CONNECT THE LIGHT CABLES PRIOR TO USING IT FOR DIVING! DISCONNECT THE CABLE AFTER USE OF THE LIGHT TO SAVE BATTERY POWER.

TECHNICAL SPECIFICATIONS

Luminous flux:	100, 700 and 1400 lumens.
Light temperature:	Cold white, 5000 – 8300 °K.
Battery cell type:	Lithium-Ion.
Input voltage:	16,8 V.
Output current:	1350 mA.

Burning - times for the LONG:

Mode 1	48 hrs.
Mode 2	9 hrs.
Mode 3	5 hrs.

Water depth: 200 meters of sea water (656 ft).

SAFETY INSTRUCTIONS

The batteries are delivered charged to approximately 50% of their capacity. To achieve the best capacity of the light it is important to charge the batteries fully before using the light for the first time.

It is necessary to fully charge the battery before any longer storage. If the battery are stored discharged it can lead to lowering of its functional capacity and after only one month to an irreversible damage of the battery cells!

Optimal storage temperature is 15 - 18°C (59 - 65°F). Higher storage temperatures accelerate the self - discharge process and an earlier recharging time would be needed.



WARNING! DO NOT PUT AN ACTIVATED LIGHT ON FLAMMABLE SURFACES TO PREVENT THE RISK OF FIRE!

DISPOSAL

THIS PRODUCT SHOULD NOT BE DISPOSED OF IN GENERAL MUNICIPAL WASTE

The crossed-out wheeled bin symbol, on this product, its packaging or instructions indicates that the product was manufactured after 13/8/05 and is subject to European Community directive 2002/96/EC, issued 27/1/03, on the correct handling of Waste Electronic and Electrical Equipment (WEEE).

WEEE must not be disposed of in general waste and should be collected and disposed of by waste collectors appropriately licensed for special waste.

This product contains substances deemed potentially harmful to the environment or human health if disposed of incorrectly.



