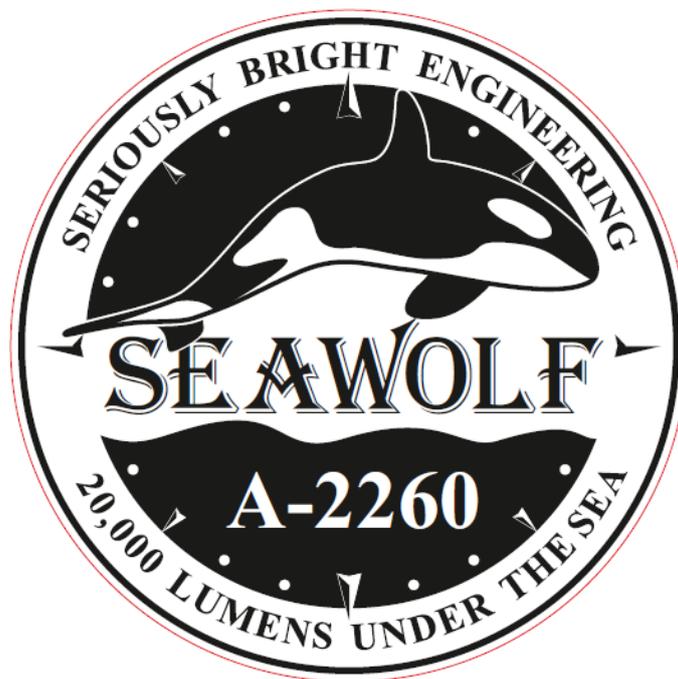




“Congratulations”

and

**“Thank you for Purchasing your new SeaWolf
2260”**



2260 USER Manual

1 Introduction

The SeaWolf has been expertly engineered and manufactured to the highest quality so we want you to get the very best use from it!

As with all things, a little maintenance and care can make all of the difference

1.1 Specifications

- **Luminosity**
- **Setting 1 Approx. 6000 Lumens**
- **Setting 2 Approx. 11,500 Lumens**
- **Setting 3 Approx. 22,000 Lumens**
- **Battery capacity 3 x 100Wh Each**
- **Optics options 45, 60 or 90 degrees**
- **Material marine grade aluminium**
- **Finish hard anodise >75microns**
- **Thermal overload cut out at LED =70degrees**
- **Battery isolation Switch**
- **Intelligent Power use & Emergency Backup**
- **Colour temperature as requested up to 7000Kelvin**
- **Working water temperature 0+25**
- **External working temp -25 + 45**
- **LED thermal cut-out will activate:**
- **Charging Temperature 0 +45 ONLY Ideally 10-40 deg**
- **DO NOT CHARGE BELOW 0 degrees**

Description

The SeaWolf is overall 96% efficient and makes the most use of power that current technology can provide.

The batteries are the highest quality badged and binned Lithium Ion's currently available on the market.

Main functions

The SeaWolf will make use of the first 235W to run in whatever mode you choose, 1/3 2/3 or full.

Once the unit has used up 235W of the available 300W the SeaWolf will default to the 1/3 run power ensuring that in emergency mode you are:

- 1) Aware that power is low
- 2) Provided with emergency light at 6000Lumens
- 3) Decreasing wear and tear on your batteries.

RUN Times

Battery Longevity

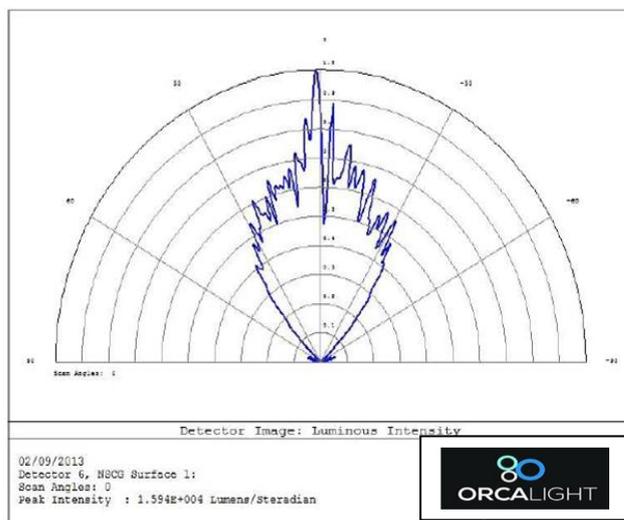
At full burn 235Watts will provide around 65 minutes of light followed by approximately 60 minutes of emergency backup.

This may vary slightly depending on temperature and battery aging and charging.

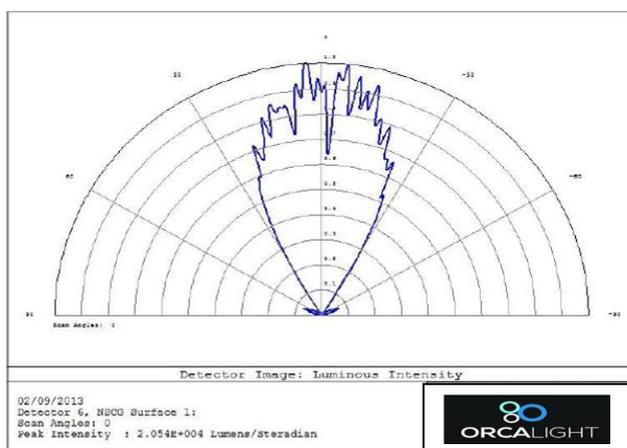
During the first part of the cycle you can use any of the three power settings, the SeaWolf constantly monitors usage and so will not go into emergency mode until 235Watts has been consumed.

2 Optics

2.1 90 Degree Plot



2.2 60 Degree Plot



3 Using Your SeaWolf 2260

Use of your SeaWolf is largely preferential; having listened to divers, likes and dislikes we have tried to provide you with as many capabilities as possible.

3.1 The SeaWolf product is intelligent

During use the SeaWolf will, amongst other things, monitor the voltages from your batteries; you should always keep, the same 3 batteries together to help the SeaWolf detect any issues.

If during use the unit seems to discharge more quickly than usual this is likely not a fault.

The first things to consider are the below.

Li batteries naturally lose some power over time, if it has been some time since you charged them a top up would be advised before use?

It is possible to mistake charging as top up: in this case one battery may have been charged twice whilst the other not charged at all?

Leaving connected to the Charger for extended periods?

In all cases before purchasing new batteries we recommend a controlled charge, carefully ensuring each battery is fully charged then removed after the charge light turns green.

Re test your unit, if the problem persists then please call us.

3.2 General Use

Attachments and Ancillaries



The unit is supplied with a standard ball joint, this can connect to a knuckle which then allows the addition of a handle, seats on the lamp head come in both UNC and M5 sizes, the seat is designed to take standard handles and camera fittings to allow the use of your favourite handle or grip type wherever you purchase it from.

Since choice of handles fittings is preferential the handle and knuckles are sold separately.

The lamp is designed to allow it to be hung, fixed or strapped to any section of your gear and two sectioned strap bars along the battery pack length facilitate a multitude of solutions from jubilee clips to bulldog double Enders, the choice and method is down to your own diving preference.



3.3 Charging the Batteries

The battery charger plugs into each battery separately.

A single charger is supplied as standard with additional chargers available for sale.

When a battery is plugged into the charger the green light on the charger will turn red indicating charge has commenced.



Once charged the green light will turn to red.

If you disconnect and reconnect the same battery you may note it turns red again, this is a built in reset and it will shortly turn back to green again.

Important

There is no need when charging to remove the batteries from the battery housing, however please take note of which you have charged and which you have not.

Since the light will always turn red you may plug in the same battery twice and not realise a full charge on each.

Always fully charge every one of the three batteries they are matched precisely to work together as a set.

NOTE: the charger has a timed cut out if left plugged in for 24 hrs or longer it will need to be unplugged and plugged back in to reset this safety feature.

We strongly advise removing the battery from the charger once the light is green rather than leaving it connected for extended periods.

You may purchase additional chargers to charge all three at the same time.

3.4 Installing the Batteries

Refer to section 4.5

Batteries come with three different cable lengths and are intended to be slotted together and slid into the housing from the top.

DO NOT DROP THE BATTERIES INTO THE HOUSING

Dropping them in may potentially cause damage to them.



3.5 Battery Power

Two main switches are required to turn the lamp on. The first on the battery enclosure is either on or off, when off the circuit protects the batteries by ensuring they are all isolated from each other.

The second switch located on the lamp head has 4 settings, off, 1/3rd, 2/3rd & Full, allowing users the capability of reducing the power output and increasing the battery charge. Note that even at 50W your 2260 will produce around 6000lumens and should last in the region of 6 hours from a fully charged pack.

3.6 Transporting

Note:

This product has been manufactured in accordance with the transportation of dangerous goods act and is compliant, that said you should ALWAYS check with airlines first before attempting to check in.

The only time you should need to remove the batteries from the housing is for transporting when flying.

The flight-case provided ensures that a customs officer can inspect each separate battery to be sure none are connected together.

You should inform the officer that:

Each is less than 100Watt hours

All are required to run the product

They are not connected to each other

They are lithium Ion **not lithium metal**

Be sure to travel with the MSDS material safety data sheet and certificate of compliance supplied when you first bought the unit.

If you need an electronic copy please visit the web site or contact us

3.7 Optics

Two main optical lenses are provided a 60 degree and a 90 degree; these can be swapped by unscrewing the bezel and swapping.

Refer to the maintenance section for method

3.8 Storage

Before storing your unit we strongly advise it is cleaned serviced and completely dried, remove the batteries from the battery compartment and store in the case provided. We recommend storing the unit in a garage or cool (not freezing) area where it cannot be inadvertently damaged

Batteries can be dangerous be diligent treat them with respect and always remain cautious.

4 Maintenance

General Do's and Don'ts

- When not in use we recommend you store your SeaWolf in its container with the batteries located in the seating's provided and disconnect them from the PCB and each other.
- If you have spare battery packs we recommend always keeping them together when charging and using, this way they will develop and age together and reduce any unnecessary stress.
- Use by use the best way to keep your unit in good working order is rinsing down immediately with fresh clean water.
- Generally whenever you remove a lid or part it's always good practice to double check the o-rings and o-ring seats are clean and well-greased.
- Always turn off both switches whenever off
- The cable between the lamp head and battery compartment is highly engineered to be as reliable and tough as we can possibly make it. That said it is highly recommended that you do not use the cable as a means to carry the unit or use it to remove the battery lid. For that purpose we have provided small slots either side to allow you to use a small lever to pop the lid off as required.
- Don't run the lamp out of water for extended periods, as a safety mechanism the lamp has a thermal cut out to protect it.
- Always ensure both the lamp and battery switches are in the off position when not in use, better still, always remove the batteries whenever possible and certainly when storing.
- Whenever transporting use the battery slots provided in the case, there are strict rules governing the carriage and transportation of Lithium ion batteries around which this system has been designed
- Do not touch or tamper with the LED all works conducted on the LED must be done so by the manufacturer.
- Do not remove the batteries from their cases, or tamper with them in any way. Any batteries damaged or defective should be returned to the manufacturer to be correctly disposed of.

4.1 Maintenance Routine

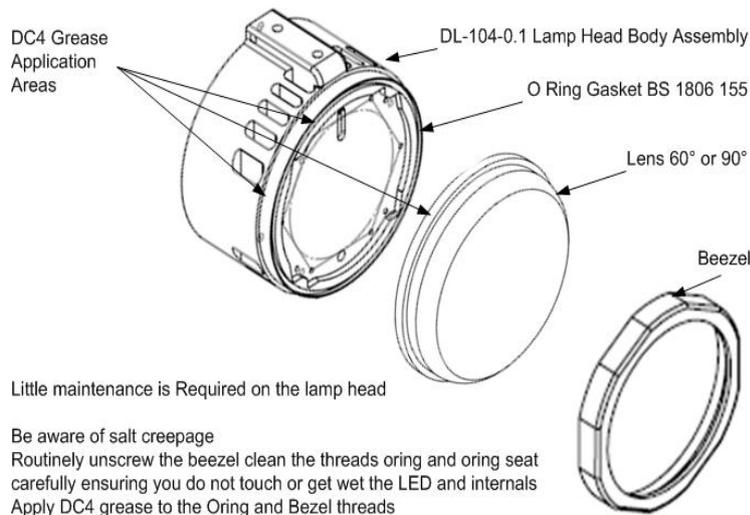
The main reason why seals can break down on all dive type equipment is nipped o-rings and salt creepage, as the sea water dries salt build up can cause seals to become unreliable, we know divers are well aware of these facts and generally look after gear so have provided an in depth guide to allow you to take full advantage of the SeaWolf design to get the most out of your kit.

Avoiding this and therefore the requirement to perform too much maintenance is as simple and as easy as completely rinsing the unit down or hosing off with a light jet using fresh clean water.

The following guide can be used to both come to know your equipment and also to re-order any part that may be damaged.

4.2 Lamp Head Front Cleaning and Lens swap

Frequency: Routinely



IMPORTANT

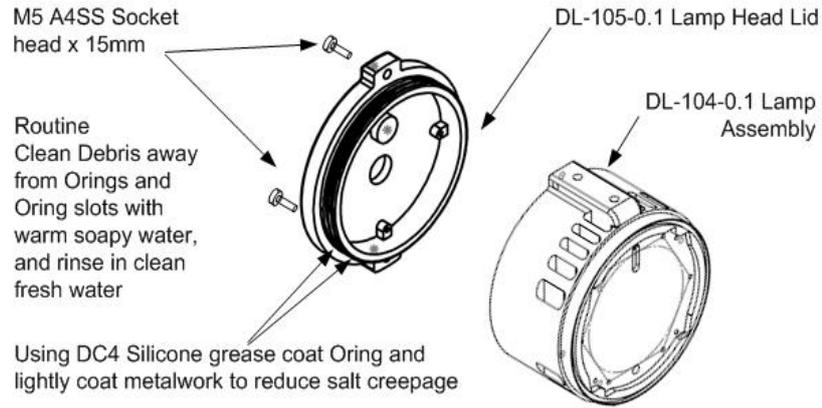
When placing the lens into the bezel ensure that it is correctly seated evenly, a small recess is provided to locate the lens accurately. You must ensure that the bezel screws down completely. If you can see more than one thread remaining once screwed down please recheck it has seated correctly so that even forces is applied all around the lens sealing face.

Apply grease liberally over the entire thread to assist in removal of the lens following multiple wet dry sessions where salt build up may occur

We strongly advise removing the bezel and lens following use followed by a quick clean using a toothbrush dipped in clean water to remove salt before drying. DO not get the LED wet or rinse the entire head whilst the lens is removed.

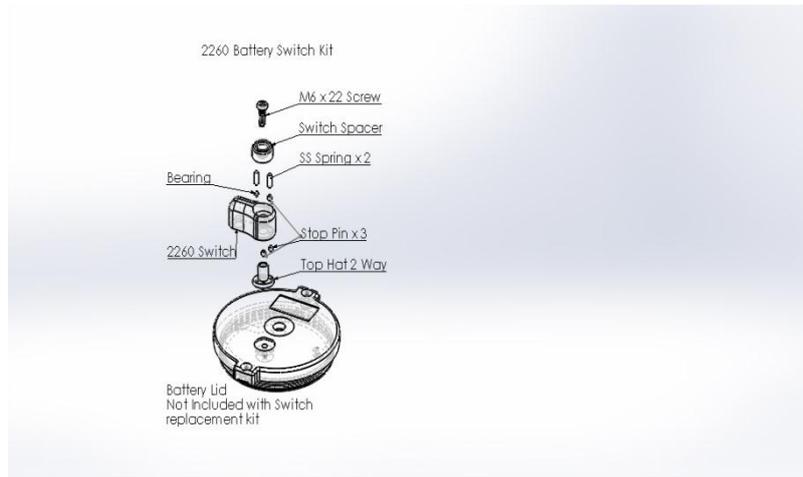
4.3 Lamp Head Rear,

Frequency: Rare



4.4 Switch assembly

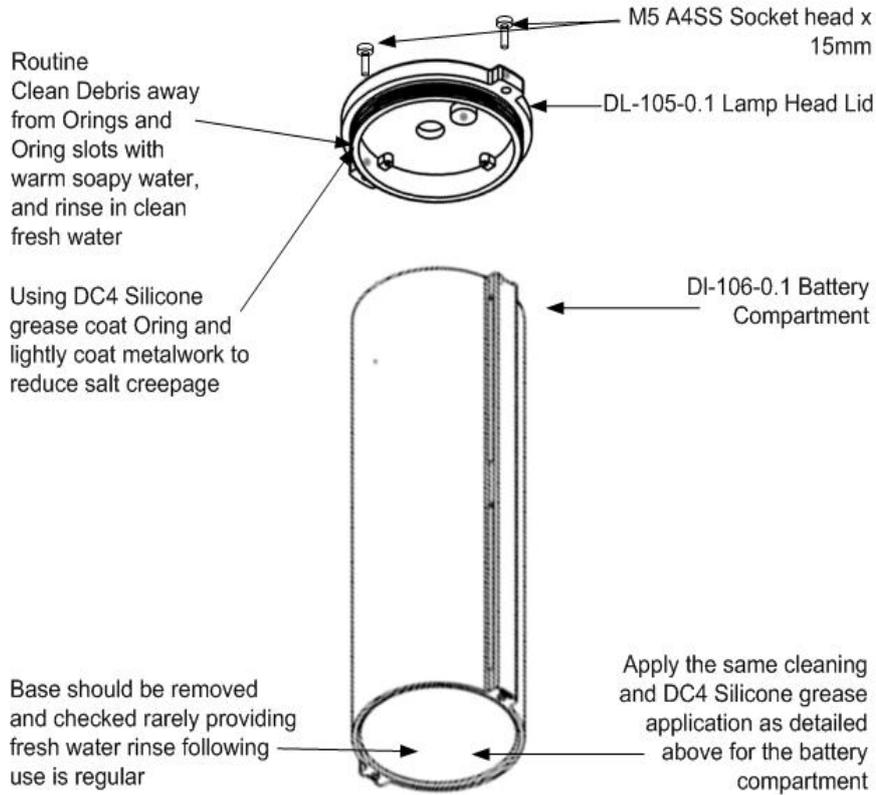
Frequency: Rare



4.5 Battery Compartment

Frequency: Routine

Because this compartment is regularly accessed for battery recharge and swap out, special attention should be paid to ensure O rings are in good working order and regularly cleaned and checked, we strongly advise this is done on every battery swap out.



Returns

In the unlikely event that a malfunction occurs whether your product is still within its guarantee or not we have a technical support department committed to getting you running as fast as possible with minimal fuss or expense.

In the first instance you can seek FAQ's on our website

www.orcalight.co.uk

Alternatively you can email directly support@orcalight.co.uk

Or call us on +44 (0)1207 281 501

If returning a part or product it is important for us to find out as much information as possible about what caused the failure, this enables us to quickly determine the best course of action for you and harden our products against such failures.

When you call to return a product you will be asked several questions on what has failed, how and what the cause may be.

This is all stored against an "RMA number" you can then return the product to us with that RMA number clearly marked on the package. Once received we aim to call you within 24-48 hours with the results of an initial inspection, offer quotation for repair, if applicable and ask you what course of action you wish to take

Guarantee Terms

The product is guaranteed against manufacturing defects. It is not guaranteed against defects that arise from, physical damage, miss-use, poor maintenance or tampering other than maintenance activities specified in the manual.

IMPORTANT

Batteries and all parts when end of life should be returned to the manufacturer.

The labels below should be placed on the packaging

If however they have any physical damage then a disposal facility should be sought locally since transportation of damaged cells is forbidden under the shipment of dangerous goods act.

If you have difficulty in finding a suitable facility, please contact us and we shall do everything possible to assist you.