Sea Dragon 1500
Photo/Video/Dive Light
Item SL672

Sea Dragon 2000
Photo/Video/Dive Light
Item SL984

Sea Dragon 2100 S/F
Photo/Video/Dive Light
Item SL670

Sea Dragon 2500
Photo/Video/Dive Light
Item SL671

Contents:

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I. Safety Warnings

Make sure you follow these important safety warnings to avoid the risk of fire or injury.

Avoid using the light above water for prolonged periods of time. The light is designed for underwater use and water is needed to displace heat. The metal light head at full power will reach temperature of about 140F (60C) degrees within a few minutes, which may cause burning if touched. A thermal sensor will automatically dim the light if internal temperatures reaches 150F (65C) degrees. Immediately turn off light if any parts of the light become hot to the touch.

If water has entered the light, immediately turn off power and follow these instructions: Remove and dry the battery. DO NOT use the battery once it has become wet. Wet batteries must be replaced. Allow battery to dry and dispose it in accordance with local battery recycling regulations. The battery chamber is waterproof. If no water has entered the LED light head, the chamber may be cleaned without causing permanent damage to the electronics. Rinse the waterproof battery compartment with fresh water and allow the inside to dry. Replace the o-rings and apply lube. Install new, fully-charged battery and test light. If light does not operate properly, please contact your local SeaLife dealer or the SeaLife service center in your country.

Do not use battery if the outer casing is cracked, separated, damaged or has become wet. Dispose battery in accordance with local battery recycling regulations.

I. Safety Warnings

Never expose battery to fire or intense heat. Do not expose light to direct sunlight for prolonged periods of time.

Remove batteries from light before transporting, traveling or long periods of storage. Remember to use the protective battery cover included when the battery is not inside the light or charging tray to prevent accidental short-circuiting the battery contacts.

Airlines impose strict safety regulations for handling and shipping lithium ion batteries. Spare lithium batteries may not be packed in your checked baggage but may be packed in your carry-on baggage. It is important to pack spare batteries in such a way as to prevent metal objects from touching the contacts and potentially short-circuiting the battery. Always use protective battery cover included when the battery is not inside the light or charging tray to prevent accidental short-circuiting the battery contacts.

Only use the specified battery and battery charger approved by SeaLife. Using any other battery or charger may cause fire, injury and permanently damage the light.

Observe all SCUBA dive safety rules and control your buoyancy at all times. Consult your dive instructor for dive safety questions.

Visit www.sealife-cameras.com for updates to this manual and underwater photography tips.

II. Check What You Got

One of the following lights

Sea Dragon 1500F Light (SL672)

with Flex-Connect Grip (SL9905) and
Micro Tray (SL9902)

Sea Dragon 2000F Light (SL984)

with Flex-Connect Grip (SL9905) and
Single Tray (SL9903)

Sea Dragon 2100SF Light (SL670)

with Flex-Connect Grip (SL9905) and
Single Tray (SL9903)

Sea Dragon 2500F Light (SL671)

with Flex-Connect Grip (SL9905) and
Single Tray (SL9903)

Charging tray (SL98311)

Li-ion Battery (SL9831)
w/protective cover

AC Power Adapter (SL98312)

Sea Dragon Case (SL942)
(Case NOT included with 1500F light)
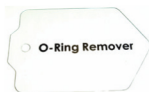

Int'l Plug Inserts (SL98306)

Spare O-rings (SL98303)

Adapter for GoPro camera (SL9813)
(GoPro adapter NOT included when light is part
of a SeaLife Camera Set)

O-ring Lube (SL9807)

O-ring remover (SL9808)

III. Product view with call-outs

Major parts

1 - **Light head**
2 - **Metal cooling bezel**
3 - **Release buttons**
4 - **Flex-Connect grip**
5 - **Tray**
6 - **1/4-20 Mounting screw**
7 - **Rubber friction pad**
8 - **Power button / Brightness adjust**
9 - **Battery status indicator**
10 - **Battery cap**
11 - **Pressure safety valve**
12 - **Flex-Connect swivel connector**

IV. Charging and Loading the Battery

1) Charge battery (green light = fully charged)
2) Unscrew the battery cap
3) Insert fully charged battery.
   Important: Make sure O-ring and sealing surfaces are perfectly clean and undamaged.
4) Screw on battery cap. *(Do not overtighten or use tools.)*

Battery charged when green
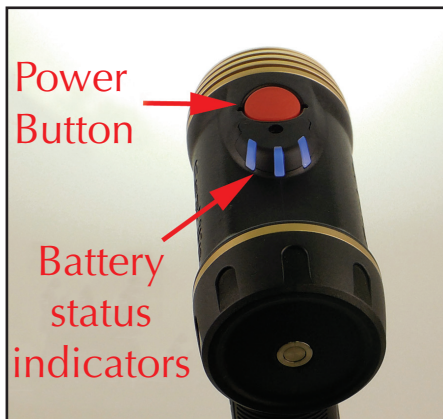
V. Operating the light

1) Push and hold the power button for 1 second to power ON the light.

2) Push the power button to change between the following light modes:

    1500F, 2000F and 2500F lights: 100% ➔ 50% ➔ 25% ➔ 100% ➔ etc.

    2100SF light: 100% Flood ➔ 50% Flood ➔ 25% Flood ➔ 100% Spot ➔ 100% Flood - etc.

Power Button

Battery status indicators

3) Push and hold the mode button for 2 seconds to power OFF the light.

VI. Battery Status Indicator

3 status lights indicate remaining battery power:

Status lights	Battery power
3 solid	100%
2 solid	75%
1 solid	50%
1 blinking	25%

VII. Maintaining a waterproof seal (Before your dive)

1) The light uses two O-rings to maintain a waterproof seal.
2) Every time you open the battery cap make sure the O-rings and sealing surfaces are clean, undamaged and lubricated.
3) Dampen a clean cotton cloth and wipe it around the o-ring and o-ring contact surfaces to remove any hair, sand or debris.
4) Carefully inspect the o-ring for cuts, tears or other damage. Replace o-rings if damaged.
5) Lube O-rings regularly. Apply a small amount of silicone lube on your finger tip and wipe it around the O-rings. Wipe off excess lubricant. The o-ring surface should have shiny, wet appearance.

O-rings

O-rings contact surface

Important:

Replace O-rings every year if damaged or not. Visit your local SeaLife dealer or www.sealife-cameras.com for information on ordering spare o-rings.

VIII. Care and maintenance (After your dive)

1) After each dive, soak the sealed light in fresh water for about 15 minutes to remove any residual salt, sand and dirt. Never allow the saltwater to dry on the light.

2) Push the power button about 10 times to clean any saltwater or sand trapped under the button.

3) Let the water drain out of the small holes located at the bottom of flex arm. (If using Flex Arms - see page 14 for optional accessories).

4) Dry off the light with a towel. Make sure you and the light are dry before opening the waterproof battery cap.

5) Remove battery before storing the light.

6) Allow light to thoroughly dry before storage.

7) Never use any detergents, cleaners, solvents or chemicals to clean the light.

8) Insert a fresh Moisture-Muncher capsule (item #SL911) inside the battery compartment during storage to help keep the inside dry and free of corrosion or mildew during storage.

IX. Replacing the O-rings

Replace the two O-rings if damaged or at least once per year.

1) Use the O-ring Remover tool provided to lift and remove the O-rings.

2) Carefully clean O-ring grooves and O-rings before installation.

3) Install O-rings by stretching and lifting O-ring into the groove. Do not roll the O-ring or allow it to twist.

4) Apply a small amount of silicone lube on your finger tip and wipe it around the O-rings. Wipe off excess lubricant. The o-ring surface should have shiny, wet appearance.

X. Attaching light to underwater camera

Important:
Only attach the light to cameras/housings with minimum thread depth of 0.28″ and using standard 1/4-20 tripod type thread. Don't over-tighten screw or you may damage the housing and threads.

Align the underwater camera to the light's mounting screw and hand-tighten.

XI. Expanding your Flex-Connect™ Lighting System

Get brighter, more colorful results by expanding your Sea Dragon underwater camera system. The modular Flex-Connect arms, grips and trays easily clicks together to create these popular configurations:

**DC1400
Pro Set**
w/ single flash

**DC1400
Pro Duo**
*w/ light, flash and
dual tray*

**DC1400
Maxx Duo**
*w/ light, flash, 2 flex arms
and dual tray*

Micro HD+
w/ 2500 light

Flex Arm - "Click" on the Flex Arm for more creative lighting and easy aiming. Reduces backscatter by positioning the flash or light farther away from the camera. Add up to two arms per side. Each arm features 100° bending motion and adds 7″ length in addition to the 5″ grip. Flex arm also attaches to any tray and can be used as a grip. (SL9901)

Grip – Rubberized grip for a comfortable hold. Built-in channel to hide and secure optical cable. (SL9905)

Expanding your Flex-Connect™ Lighting System (continued)

Select from three universal mounting trays:

Dual Tray – Add another flash or light with the dual tray to double brightness, reduce shadowing and stabilized aiming control. Sold separately (SL9904).

Micro Tray – This tiny tray is the perfect fit for SeaLife Micro HD, Go Pro and other compact cameras. (SL9902).

Single Tray – The standard single tray is ideal for SeaLife DC1400, Olympus and other medium size underwater cameras. (SL9903).

Cold Shoe – Mount a light or flash on the SeaLife DC1400 or other cameras with a cold shoe mount for the most compact lighting solution available. Or use it to add a third light when using a dual tray. (SL991).

Expanding your Flex-Connect™ Lighting System (continued)

Y-S Adapter – Attach any underwater light or flash using the Y-S mount to the Flex-Connect system. This includes the Sea Dragon Mini 600/650 light, Light & Motion, Sea&Sea, Olympus, Inon, Fantasea and more (SL994).

Ball Joint Adapter – Connect Sea Dragon Lighting to any underwater camera using the 1″ ball joint mounting system. Heavy duty machined anodized aluminum construction for maximum durability (SL995).

Adapter for Ball Joint Lights – Connect any UW light using 1″ ball joint to Flex Connect system. Heavy duty machined anodized aluminum construction for maximum durability (SL999).

Adapter for GoPro Camera w/ acorn nut – Attach GoPro cameras to the Flex-Connect cold-shoe adapter, grip, tray or flex arm (SL996).

Flex-Connect Handle – Use your Sea Dragon as a dive light with this compact, comfortable handle. Includes standard ¼-20 tripod mount for attaching to the AquaPod SL913 or other tripod screw accessories. Use as a GoPro handle when combined with GoPro Flex-Connect Adapter (SL998).

Sea Dragon Red-Fire Filter – Many fish and other ocean animals shy away from white light but not from red light, especially on night dives. The filter uses special formulated wavelength tested not to scare off sea creatures. Easily snaps on/off the front of the Sea Dragon 1200F, 1500F, 2000F, 2500F and 2100SF lights. Can be attached underwater (SL9832).

XII. Recommended Camera Settings

For SeaLife camera, follow the Easy Set-up menu to correctly set the camera.

For other underwater camera brands:

1) Set the Scene mode to "Auto" or "Underwater" scene mode, as recommended by the camera manufacturer.

2) You may also need to change the White Balance setting to DAYLIGHT depending on the camera's underwater color correction or if pictures/video turns out red.

XIII. Great pictures made easy

There are plenty of challenges that photographers face in the underwater world. Please take some time to review SeaLife's online guide called Great Pictures Made Easy by visiting www.sealife-cameras.com. The guide is located under the Technical Support menu. The following information summarizes the basic principles of underwater photography.

Crystal clear water

Clear water is essential for good underwater pictures. Low visibility, caused by fine particles suspended in the water, will diminish the picture and video quality. As a general rule, limit your shooting distance to 1/10 of the water visibility. For example, if the visibility is 20 ft, limit your shooting distance to 2 ft. Try to keep the light as far away from the camera lens as possible to minimize backscatter.

Limit your shooting distance

Water is 800 times denser than air and quickly absorbs light. The Sea Dragon lights have an effective range of about 3ft (90cm) to 4ft (120cm) depending on visibility and ambient light conditions. Closer shooting distances result in better pictures and video.

Control your buoyancy

Get your buoyancy under control and set yourself up in the ideal position before taking a picture or shooting video. This allows you to hold the camera steady and control your shooting distance. Good buoyancy control will help you avoid stirring up the sandy bottom which will cloud-up the water and cause backscatter. Controlling your buoyancy is very important for your diving safety so don't start shooting until your buoyancy is under control.

Practice makes perfect

There is no better way to learn than from your mistakes. Become familiar with your camera controls so you can make quick adjustments depending on the conditions. Take the time to practice and experiment with different settings. Review your pictures and learn from your mistakes.

Compose a good picture

Avoid shooting down on the subject from above. Shooting down usually results in a poor contrast because the subject blends into the background. Try and shoot upwards from below the subject so you get a blue water background and better contrast. Get the entire subject into your picture frame. Don't cutoff the hands, fins or head of your subject. You can always crop you image later on your computer if you want.

Video tips

Hold the camera as steady as possible and move (pan) very slowly. A jumpy, fast-moving video is hard for anyone to watch and can actually cause motion sickness.

Avoid shooting video clips more than 1 minute. It is difficult to edit a lengthy video clips because the large file size. You can always patch together short video scene into a longer movie using video editing software, like Microsoft Movie Maker or Mac iMovie.

Always observe dive safety rules and Never Touch Marine Life

Do not let photography distract you from diving safely. Observe marine life - Never touch marine life. Be aware of your surroundings to avoid contacting anything. Keep your dive gear close to your body.

XIV. Advanced Settings

Auto Flash Detect

(Only applies to Sea Dragon 2000F SL984 light)

The Sea Dragon 2000F light (SL984) includes a flash sensor that will turn off the light for 2 seconds if it detects an external flash firing. This feature helps reduce backscatter. You may disable the auto flash detect as follows:

1) With light in the OFF state, push and hold the power button for 3 seconds.

2) Release the power button when the indicator lights begin blinking and light turns off.

3) Two quick blinks per second indicates Flash Detect is enabled. One blink per second means the Flash Detect is disabled.

4) Push and release power button to switch modes.

5) Push and hold the power button to save and exit the Flash Detect setting.

Performance and Economy modes

(Only applies to Sea Dragon 2000F SL984 light)

The Sea Dragon 2000F light (SL984) is set to "Performance" mode, which means it maintains constant brightness (lumens) even as the battery charge is depleted. The light can also be set to "Economy" mode, so the brightness gradually reduces as the battery charge drops, which doubles the battery life (burn time). To select between these two modes:

1) With light in the OFF state, push and hold the power button for 7 seconds.

2) Release the power button when the middle indicator light begins blinking.

3) Two quick blinks per second means the light is set to Performance mode. One blink per second means the light is set to Economy mode.

4) Push and release power button to switch between the two modes.

5) Push and hold the power button to save and exit the mode setting.

Blinking and SOS mode

(Only applies to Sea Dragon 1500F, 2100SF and 2500F lights)

The Sea Dragon 1500F, 2100SF and 2500F lights include a blinking and SOS mode for emergency signal purposes.

1) With the light in the OFF state, push and hold the power button for 4 seconds.

2) Release the power button when the light starts blinking.

3) Push and release the power button to switch between 1 second interval blinking and SOS Morris code signal.

4) Push and hold power button for 2 seconds to turn off light.

XV. Troubleshooting Guide

Light does not power ON

Make sure battery is fully charged and contacts are clean.

Replace battery if it has become wet or is damaged.

Blue or dark pictures/videos

Keep your shooting distance inside of 2ft to 3ft, depending on visibility and ambient light.

If you are using only one light, considering adding another light (dual lights) or/and external flash accessory. The ideal set-up is a combination of a light plus flash.

For the DC1400 and other SeaLife DC-series cameras, Consider purchasing the SeaLife Wide Angle Lens (SL975). The fisheye lens allows you to get closer to the subject and fit more into to picture frame.

Pictures or Videos too red

The camera's white balance setting may not be set correctly. Refer to page 18 of this manual for information on camera settings.

For updated information and advice, please refer to the SeaLife website at www.sealife-cameras.com or contact your local SeaLife dealer or service center for help.

XVI. Specifications

Sea Dragon 1500F (item SL672)

Light source/ Bulb type:	1 x Flat panel LED Array (Flood)
Brightness:	1500 lumens
Beam angle:	120 degrees
Color temperature:	5700K
Color Rendering Index (CRI):	80
Run [Burn] time:	70 minutes at full power/140 min at half power/280 min at quarter power

Sea Dragon 2000F (item SL984)

Light source/ Bulb type:	6 x 3W LED Light (CREE XM-L LEDs)
Brightness:	2000 lumens
Beam angle:	100 degrees
Color temperature:	5300 ~ 5700K
Color Rendering Index (CRI):	70
Run [Burn] time:	60 minutes at full power/120 min at half power/240 min at quarter power

Sea Dragon 2100SF (item SL670)

Light source/ Bulb type:	6 x 3W LED Flood Light and 1 x 3W Spot (CREE XM-L2 LEDs)
Brightness:	2100 lumens flood and 800 lumen spot
Beam angle:	100 degrees flood and 15 degree spot
Color temperature:	5300 ~ 5700K
Color Rendering Index (CRI):	70
Run [Burn] time:	60 minutes at full power flood and 150 min at full power spot.

Sea Dragon 2500F (item SL671)

Light source/ Bulb type:	1 x Flat panel LED Array (Flood)
Brightness:	2500 lumens
Beam angle:	120 degrees
Color temperature:	5000K
Color Rendering Index (CRI):	90
Run [Burn] time:	60 minutes at full power/ 120 min at half power and 240 min at quarter power.

Shared specifications

Body material:	Anodized aluminum light head with fiber-reinforced polycarbonate body
Brightness control:	100%, 50% and 25% power
Battery:	Lithium Ion 7.4V, 3400 mAh, 25 Wh (included)
Depth:	Tested to 200 ft (60m)
Light modes:	Full power (100%), half power (50%) Quarter Power (25%)
Dimensions:	8.5″ x 9.5″ x 2.3″ (22cmx24cmx6cm) fully assembled light head w/battery, grip and tray
Weight:	23 ounces (652 grams) light head w/battery, grip and tray
Bulb life:	35,000 hours
O-ring:	Dual NBR o-rings (lube included)
Buoyancy:	Negative

XVII. Parts and Service

SeaLife guarantees the original purchaser of this product, for a period of one (1) year from the date of purchase, that the product is free from defects in workmanship and materials. For a detailed warranty statement, please refer to the warranty information included with the product. In the event the original purchaser believes there is a defect in a product, it is recommended that the purchaser first visit www.sealife-cameras.com for product updates and technical advice. The SeaLife website also includes detailed information on how to get repair service.

Happy Diving!
SeaLife
www.sealife-cameras.com

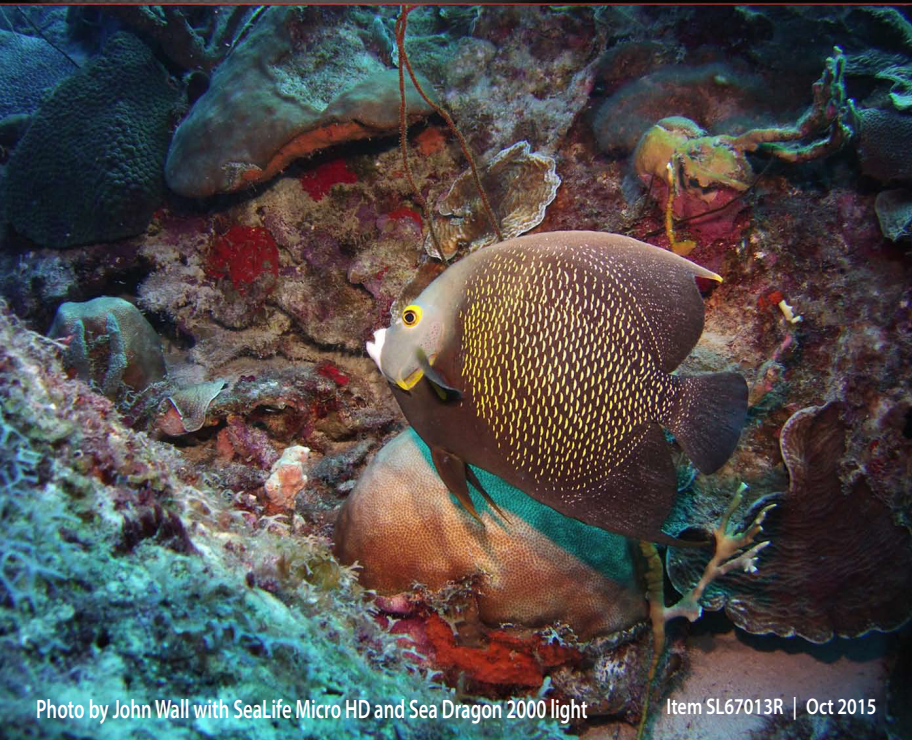Photo by John Wall with SeaLife Micro HD and Sea Dragon 2000 light

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