

SeaLife®

SportDiver™



Instruction Manual

SeaLife SportDiver Underwater Housing for iPhone *(Item SL400)*

About this manual

- How-to videos are available at: www.sealife-cameras.com/great-pictures-made-easy.
- Updates to this manual and troubleshooting is available at: www.sealife-cameras.com/manuals.
- Please register your SeaLife product online at: www.sealife-cameras.com/warranty.
- The manual content and specifications are subject to change without notice.

Important

- The limited warranty applies only to the SeaLife SportDiver underwater housing (the “Product”). This limited warranty does not cover, and does not provide any remedy for damage to, any smart phones, other electronic devices, or other products, used in connection with the Product. Purchaser understand and agrees that while SeaLife has undertaken commercially reasonable efforts to ensure that the Product functions in accordance with SeaLife’s applicable published specifications, some risk of flooding or other failure remains when the Product is used, which risk the Purchaser assumes. See page 49 for details. We recommend that you insure your smartphone through your wireless carrier for accidental loss and damages. We also recommend that you utilize cloud back-up storage (i.e. iCloud®) to preserve your phone’s data in the event of a total loss.
- Do not directly or indirectly expose the underwater housing to spray-on sunscreens. Most spray-on sunscreens contain chemicals that may react with polycarbonate and other plastics, causing cracks and potential flooding. Read and follow additional Care & Maintenance instructions on page 43.

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I. Package contents



SportDiver underwater housing (SL4001)



Color-correction filter (SL40007)



Vacuum pump (SL40006)



Rubber grip tabs (12 each small, medium and large) (SL40008)
(10 medium tabs pre-installed in UW housing)



Spare O-rings (1x Main O-ring and 1x Vacuum Check Port O-ring – SL40010)



O-ring lubricant (SL9807)

SeaLife

o-ring removal tool

SL9808

O-ring removal tool (SL9808)



Deluxe padded wrist lanyard
with BCD clip (SL72070)



Moisture Muncher sampler pack (1 capsule)
(SL2523)

SeaLife SportDiver



Instruction Manual

SeaLife SportDiver Underwater Housing for iPhone and Samsung

Instruction manual (English) (SL40024)



AAA alkaline batteries (2) (SL40011)



EVA carry case (SL40009)

Note: Smaller accessories are packed in fabric bag,
which is not shown in the above package contents.

II. Optional accessories (Sold separately)



Sea Dragon Photo-Video Light
(Best color and image quality)



SeaLife Photo Pro
Backpack (SL940)



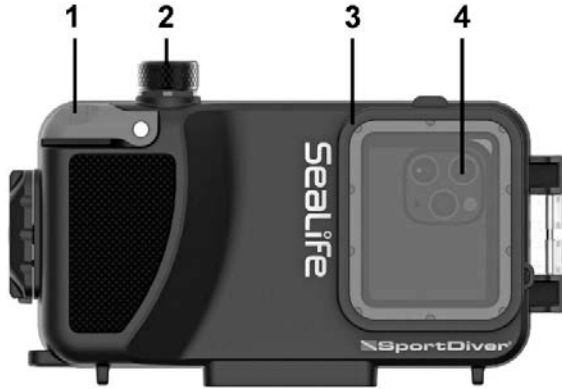
Moisture Muncher desiccant
capsules 10-pack (SL911)



Screen Shield (SL4005)
Waterproof screen protector for SportDiver

Visit your local authorized SeaLife dealer or www.sealife-cameras.com for a complete listing of accessories.

III. Getting to know the housing



- 1 – Shutter Lever
- 2 – Vacuum Check Port
- 3 – Underwater color-correction filter (removable)
- 4 – Optical glass lens port (showing iPhone inside)

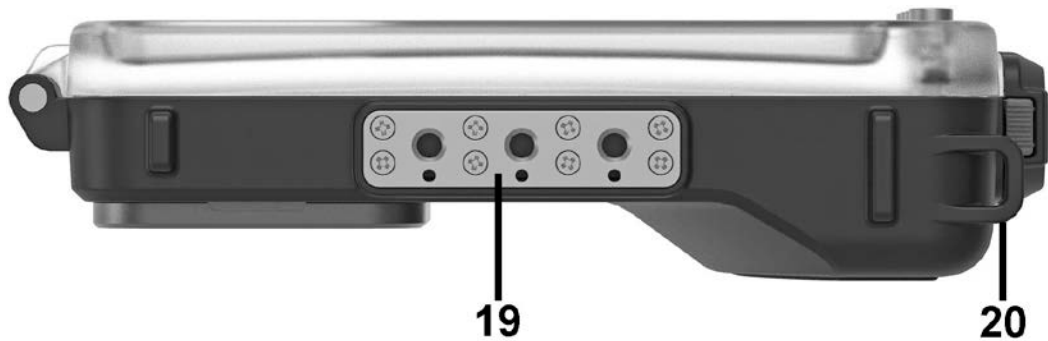


- 5 – Display window (showing iPhone inside)
- 6 – Mode button (Photo, Video, Settings, Playback)
- 7 – Up button (Scroll up or increase zoom/focus)
- 8 – Down button (Scroll down or decrease zoom/focus)
- 9 – OK button (Confirm selection)



- 10 – Main O-ring
- 11 – Rubber grip tabs (Medium size pre-installed)
- 12 – Holding spring with rubber grip pad
- 13 – Moisture Muncher capsule cavity
- 14 – Battery compartment (fits 2x AAA batteries)

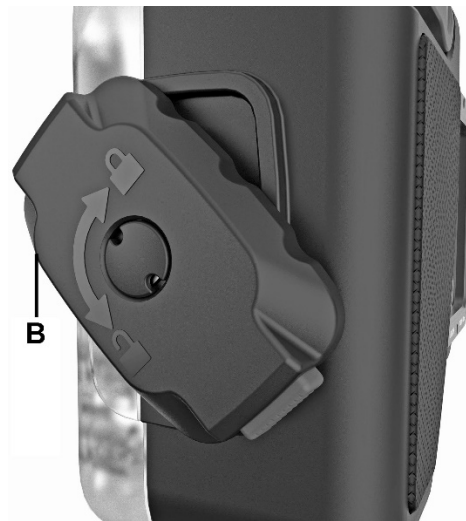
- 15 – Leak alarm status LED
- 16 – Power / Bluetooth connection status LED
- 17 – Power On/Off switch
- 18 – Water sensor
(Activates leak alarm when water touches sensor)



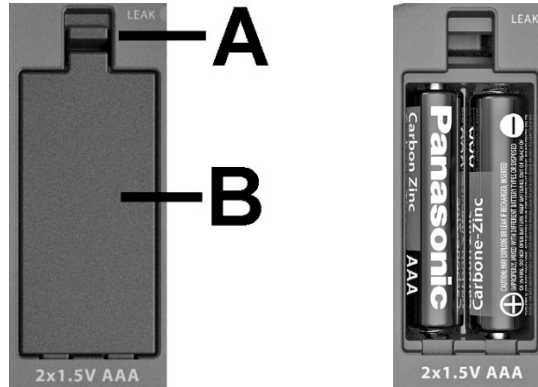
19 – Triple ¼-20 tripod mounts
20 – Lanyard connection point
21 – Cam-Lock (Opens/closes housing)

IV. Setting up the housing

1. Open the underwater housing. Push and hold release button (A) and rotate cam-lock (B) counter-clockwise.



2. Open the battery compartment by pulling down the locking tab (A) and lifting the battery cover (B). Insert two alkaline AAA batteries into the battery compartment. Make sure the batteries are inserted correctly according to the +/- polarity markings.



Notes

- NiMH rechargeable AAA batteries may also be used. The Housing battery strength indicator on the top right of the app display will only show 3 bars with fully charged NiMH batteries.
- DO NOT use single-use lithium AAA batteries.
- Single use batteries will last for approximately 50 hours of continuous use.

3. Insert Moisture Muncher desiccant capsule into cavity. Moisture Muncher absorbs the humidity inside the sealed housing and prevents fogging. A fresh new capsule is blue in color. Replace the capsule when granules turn pink in color. One sample capsule is included with the SportDiver. 10-packs of Moisture Muncher in resealable foil pouch may be purchased at your local SeaLife dealer.

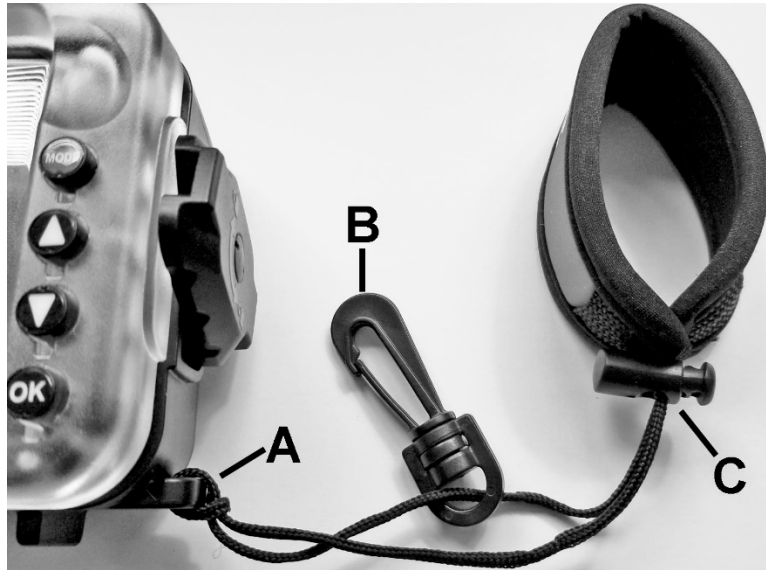


Insert one Moisture Muncher

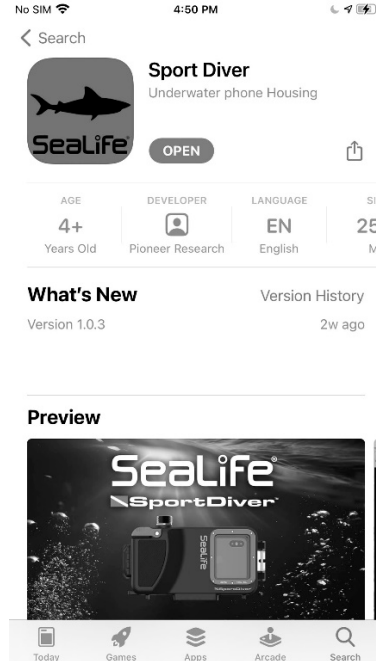


10-Pack Moisture Muncher (SL911)

4. Attach padded wrist lanyard to the underwater housing as shown below. Loop the end of the lanyard through the lanyard hole (A). The clip (B) is used for attaching the housing to your BCD D-ring. You may also attach the lanyard around your wrist, using the sliding lock (C) to tighten the lanyard.



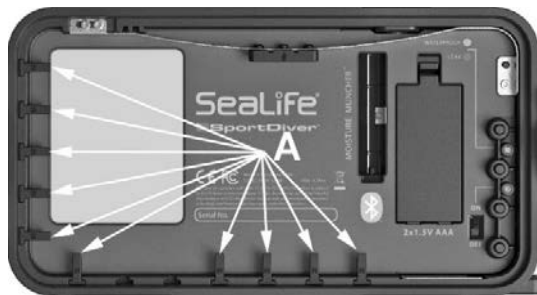
5. Download SeaLife SportDiver app from Apple App Store. Search for “SportDiver”. After installing the app, accept all the permissions, which includes access to Photos, Camera, Microphone and Bluetooth. SeaLife does not collect data, track location or gather any personal information from the SportDiver app.



6. Ten medium-sized rubber grip tabs (A) have been pre-installed into the housing as shown below. The rubber grip tabs and bow-shaped spring hold the phone in position and prevents the phone from moving around when the housing is sealed.

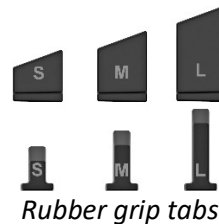
Two of the slots don't have grip tabs installed to avoid contacting the iPhone's side buttons. Do not install grip tabs in areas where the phone's side buttons are located.

Exchange the medium-sized grip tabs with small or large-sized tabs depending on your



pre-installed medium-sized rubber grip tabs (A)

specific iPhone model – see the size chart below. The grip tab end is tapered. Make sure to install the grip tabs with the longer side up and shorter side down, which keeps the phone held down.



Rubber grip tabs

iPhone Model	Grip tab size	iPhone Model	Grip tab size
12	M	10r (Xr)	M
12 Pro	M	10s (Xs)	M
12 Pro Max	S	10s Max (Xs Max)	S
12 Mini	L	8	L
11	M	8 Plus	S
11 Pro	M	7	L
11 Pro Max	S	7 Plus	S
10 (X)	M	SE (2nd Gen)	L

Grip tab size chart

7. If your phone has a protective case, it is recommended to remove it. Insert the phone into housing to check the fit. Push the phone up against the bow-shaped spring until the bottom of the phone can be pushed down and held by the rubber grip tabs. Then, slide the phone left as far as possible. Over a soft surface, like a towel, check that the phone is securely held in position and that no grip tabs touch buttons on the side of the phone. Remove the phone by pushing up on the bow spring and lifting the phone up.



iPhone 7 with large rubber grip tabs installed



iPhone 8 Plus with small rubber grip tabs installed

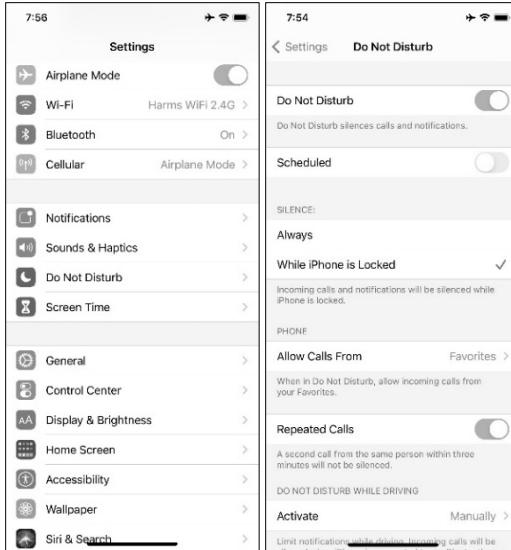
Note

- Some phones with protective case may be small enough to securely fit inside the housing without removing the protective case. In that case, you may try leaving on the protective case.
- When the housing is powered on, touching the gold water sensor (located on the inside bottom right of the housing) will cause the Leak Alarm to activate. If that happens, power the housing Off and On again.

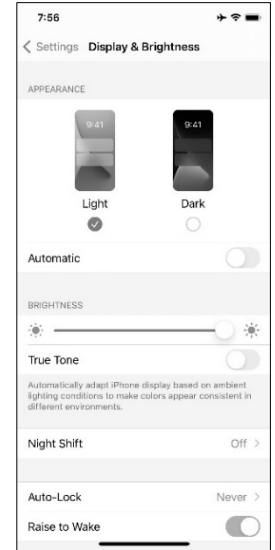
V. Prepare the housing for underwater use

1. Before underwater use, it is important to change the iPhone settings to: Airplane mode ON, Bluetooth ON, Do Not Disturb ON, True Tone OFF* and Auto-Lock OFF. This ensures the SportDiver camera app operates without interruption while the phone is sealed inside the underwater housing.

Go to Settings
and **turn On**
> Airplane mode
> Bluetooth
> Do Not Disturb



Go to Display & Brightness
Settings turn
True Tone Off
and Auto-Lock
to Never



* True tone applies to iPhone 8 and later

2. Fully charge your phone before each use. Consider using a power bank (5V portable charger) to charge your phone between dives if a wall charger is not available.



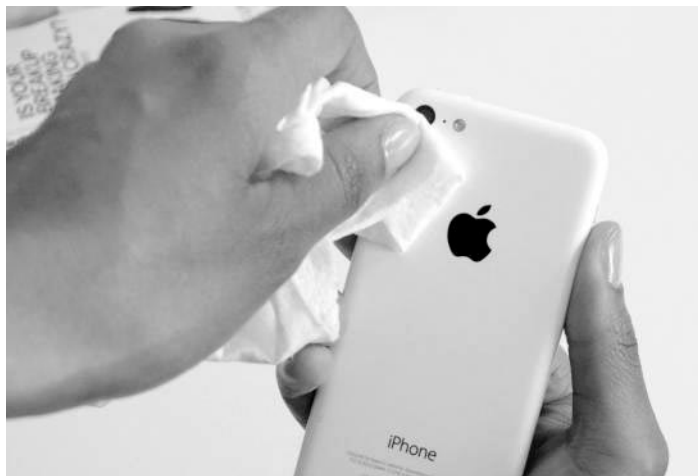
Fully charge your phone before each use to avoid Low Battery pop-up message

Note

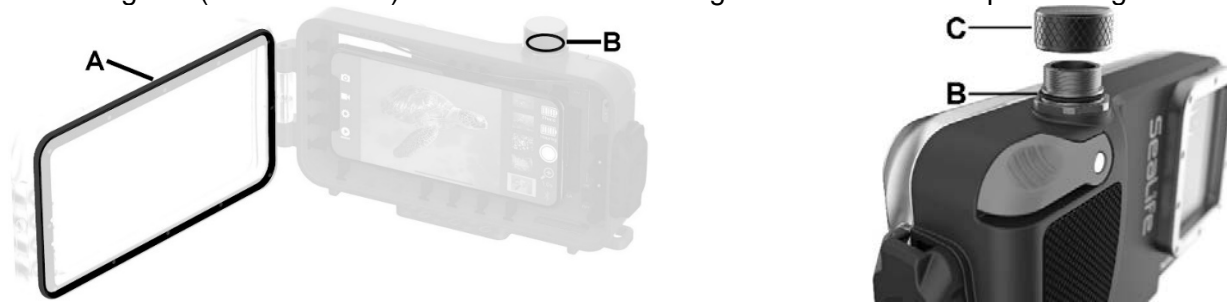
When your phone reaches <20% battery power, a “Low Battery” warning will pop-up. This message is generated by the iPhone operating system (iOS) - not from the SportDiver app. The iPhone’s operating system does not allow disabling the Low Battery message. Consider lowering your iPhone’s display brightness to preserve battery power.

The SportDiver app has a Power Save settings that will dim the display after 1, 3 or 5 minutes, depending on your setting. Push any button to exit Power Save mode. See page 37 for details about app settings.

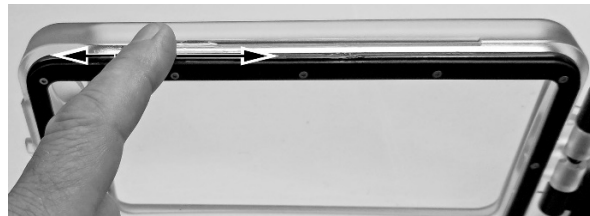
3. To optimize image quality, use a lint-free cotton or micro-fiber cloth to clean the iPhone lens(es) and underwater housing glass port.



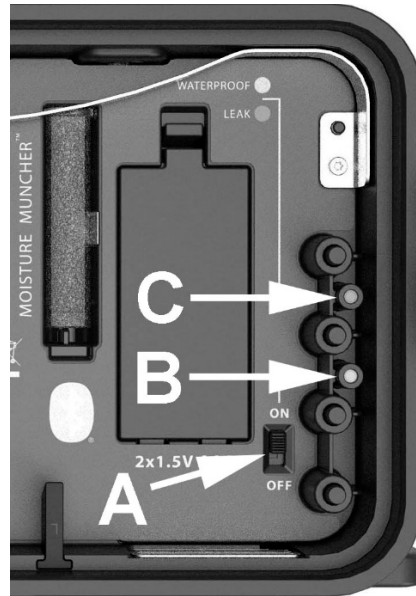
4. Inspect the main O-ring (A) and vacuum check port O-ring (B) for cuts or other damage. Remove the vacuum check port cap (C) to expose the O-ring. Clean both O-rings and opposing contact surfaces using a slightly dampened lint-free cloth. Replace the O-rings if damaged or every year. The SportDiver Spare O-ring Set (Item SL40010) includes the main O-ring and vacuum check port O-ring.



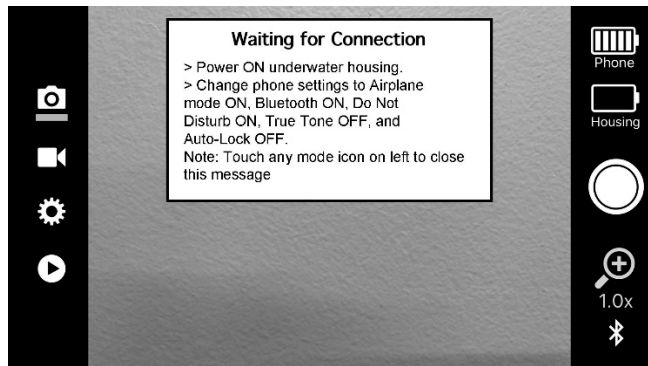
5. Put a small dab of silicone O-ring on your fingertip. Apply a thin film of silicone lube to the exposed surface of the main O-ring and vacuum check port O-ring. Use your fingertip to evenly spread the lube over the exposed O-ring surfaces. Only a thin film of lube is necessary.



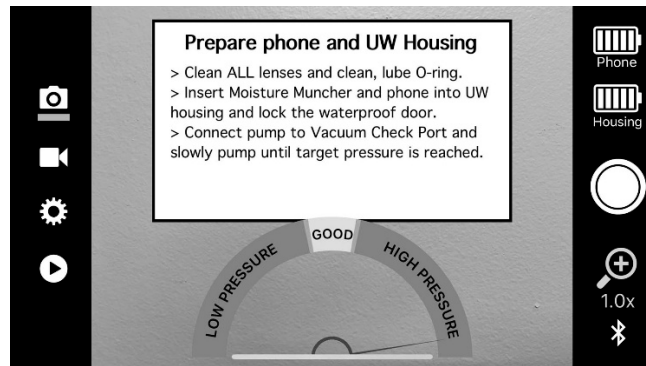
6. Power On the underwater housing (A). The housing has two status LED's to indicate Power/Bluetooth connectivity (B) and Leak Alarm status (C). The blue Power/Bluetooth LED and red Leak Alarm LED will both be blinking. If not, check that the batteries are installed correctly.



7. Power on your iPhone and open the SportDiver app. The app will display “Waiting for Connection”. The iPhone with opened SportDiver app closest to the housing will automatically connect within about 1 minute. Once connected, the blue Power/Bluetooth LED will stop blinking and turn solid blue, and the Bluetooth icon in the lower right of the display will turn from white to blue. Once the housing has connected, the app will display a pressure gauge. If so, proceed to the next step. If the phone does not automatically connect, power Off the housing and repeat step 6. Make sure your phone is close to the housing and app is open.



Waiting for connection message



Once connected a pressure gauge is displayed

Note

- Do not touch the gold water sensor located on the inside bottom right of the housing. That will cause the Leak Alarm to activate and display a “Leak Detected” message. If that happens, power the housing Off and repeat steps 6 through 8.

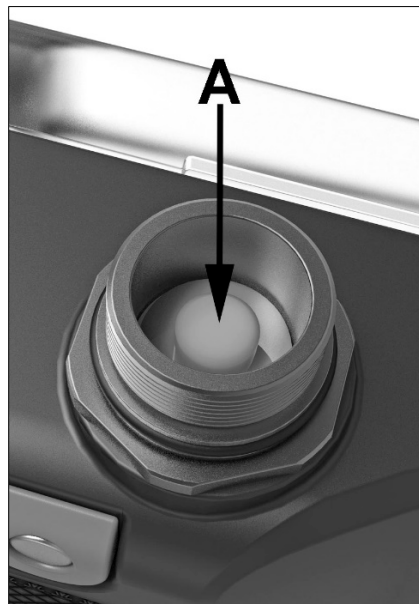
8. Insert the phone into the housing, close the waterproof door and rotate the cam lock clockwise until it stops and locks in place. Make sure not to trap anything in the sealing area when closing the waterproof door.



Note

- Do not touch the gold water sensor located on the inside bottom right of the housing. That will cause the Leak Alarm to activate and display a “Leak Detected” message. If that happens, power the housing Off and repeat steps 6 through 8.
- It is normal for there to be a small gap between the waterproof door and the front housing after the door is closed. Applying vacuum pressure in step 10 will close the gap.

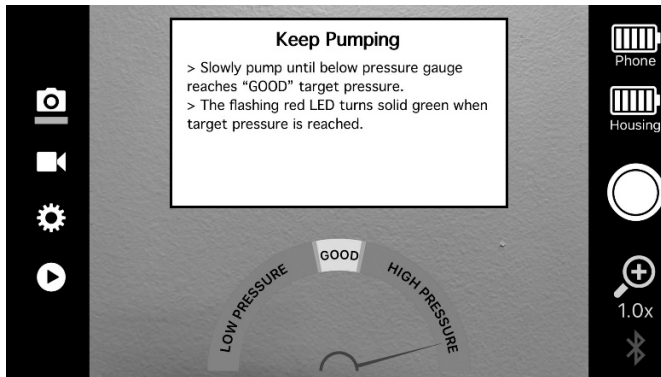
9. Unscrew Vacuum Check Port cap. You will see a yellow rubber one-way valve (A), which allows air to be removed from the inside of the housing using the vacuum hand pump.



10. Press the rubber tip of the hand pump against the open vacuum check port and pump until the on-screen gauge needle reaches "GOOD". It takes about 2 to 3 full pumps. Screw-on the vacuum check port cap!



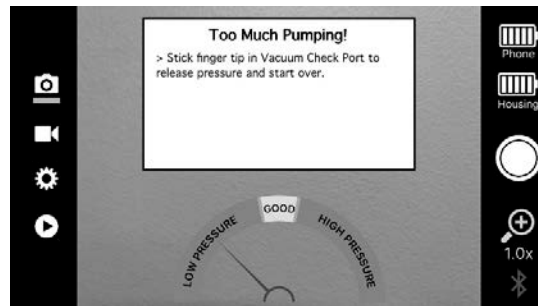
Hand pump pressed against vacuum check port



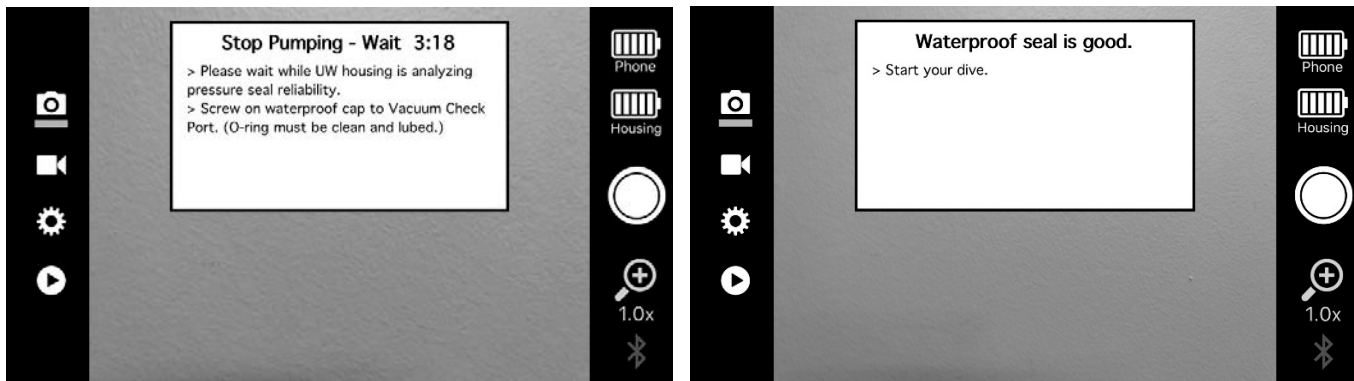
Pump until gauge needle reaches "GOOD"

Note

- If you pumped too much, use your fingertip to move the yellow rubber one-way valve sideways and release some air pressure. Then, pump again until pressure is "GOOD".
- If the gauge needle does not move when pumping, apply thin film of lube to the O-ring and try again.



11. When the vacuum pressure is good, the housing will start a 3.5-minute leak analysis to ensure the internal vacuum pressure is maintained and the housing is airtight. After the leak analysis is complete, a “Waterproof Seal is Good” message is displayed. The housing is now ready for underwater use. If a “Leak Detected” message appears, go to step 12.



Important

- Do not expose the housing to direct sunlight during the leak analysis. That may cause heat to build-up inside the housing, increasing internal air pressure and resulting in a leak alarm failure.
- Make sure to screw-on the vacuum check port cap. The vacuum check port without the cap is NOT waterproof and will cause the housing to leak.
- The internal vacuum pressure needs to be released before opening the housing. Use your fingertip to move the yellow rubber one-way valve sideways to release vacuum pressure.

12. If a “Leak Detected....> Internal pressure changed...” message appears during the leak analysis go back to step 6. Inspect the O-rings for damage - replace O-rings if damaged. Clean the O-rings and repeat steps 6 through 11.



Note

- You may disable the leak alarm in the app settings. Refer to page 37 for more details. Disabling the leak alarm will stop the housing from alerting you if an air pressure or water leak is detected. If you disable the leak alarm, it is still important to apply internal vacuum pressure, which helps the waterproof seal.

VI. After using the housing underwater

Follow these important steps after each underwater use:

1. Soak the sealed housing in fresh water for about 20 minutes. Push each button 20 times to flush out any saltwater, sand or dirt trapped under the buttons.
2. Towel-dry the housing. Make sure that you and the waterproof housing are dry before opening the waterproof door.
3. Release the internal vacuum pressure before opening the housing. Unscrew the vacuum check port cap and use your fingertip to move the yellow rubber one-way valve sideways to release vacuum pressure.
4. Make sure water drops around the O-ring sealing areas do not drip into the housing. Use a clean dry towel to dry any water drops that have entered the housing.
5. The leak alarm may activate (beep) when opening the waterproof door. Power Off the housing to turn off the leak alarm.
6. Follow the other care and maintenance instructions on page 43.

VII. Operating the housing


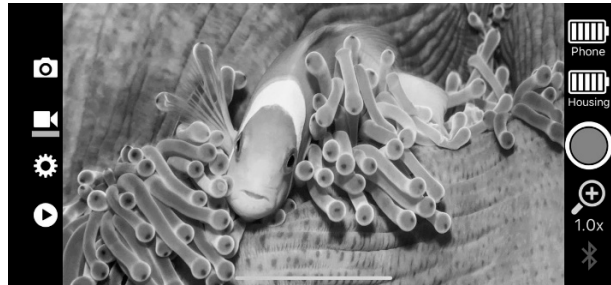
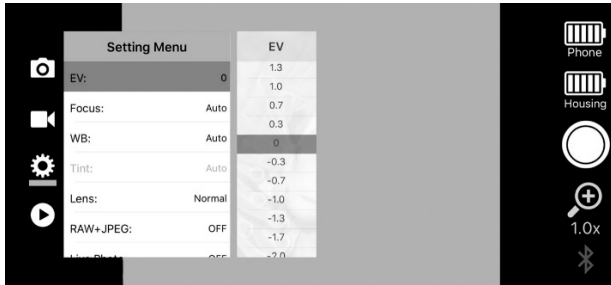
The SportDiver has four primary modes – Photo, Video, Settings and Playback. Push the Mode button  to switch modes. A blue line appears under the selected mode icon.



Photo mode for taking pictures



Video mode for recording video

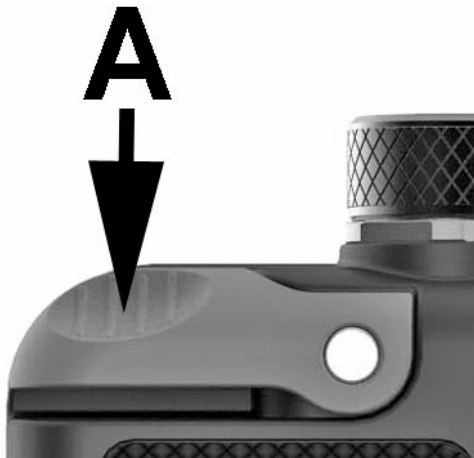


Settings Menu mode for adjusting camera settings









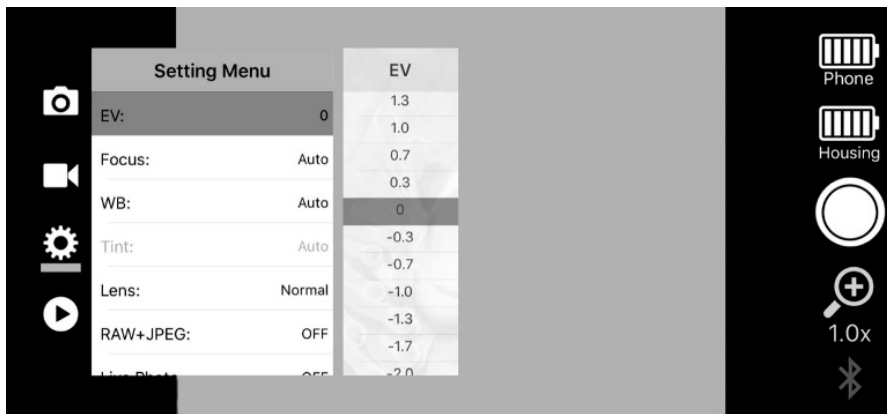
Playback mode for reviewing photos and videos

1. Taking a picture - Set mode to Photo and push the shutter lever (A).
2. Recording video - Set mode to Video and push the shutter lever (A) to start video recording. Push shutter lever again to stop recording. A red elapse time will appear on top of the display when video is being recorded.



Push shutter to take picture or start/stop video recording



3. Changing settings – Set mode to Settings Menu. Use the Up  and down  buttons to scroll through the main settings menu and push  to enter a setting sub-menu. In the setting sub-menu, use the Up  and down  buttons to scroll through setting options and push  to confirm the setting.



Example of main setting with “EV” setting sub-menu.

Note

For information about each setting in the Setting Menu, please refer to chapter VIII, page 33.

4. Playback pictures and videos - Set mode to Playback. The last picture or video taken is displayed. A thumbnail strip on the right side highlights the single-view image displayed. Use the Up  and down  buttons to scroll through the images. Video clips will have a video camera icon on the thumbnail. Videos will start playing automatically when selected. You may delete any one file by pushing the OK button, selecting Yes and pushing OK to confirm.



Single-view photo with thumbnail strip on the right



Push OK button to open "Delete this file?" option

Note

Files are also saved in your iPhone's Photos app in a folder titled SportDiver. Deleting a file in the SportDiver app will also delete the file in the Photos app. Deleting a file in the Photos app will also delete the file in the SportDiver app.

5. Zooming – In Photo or Video modes, pushing the Up  button increases the zoom. Pushing the down  button decreases zoom.



Example of 1X zoom (no zoom)



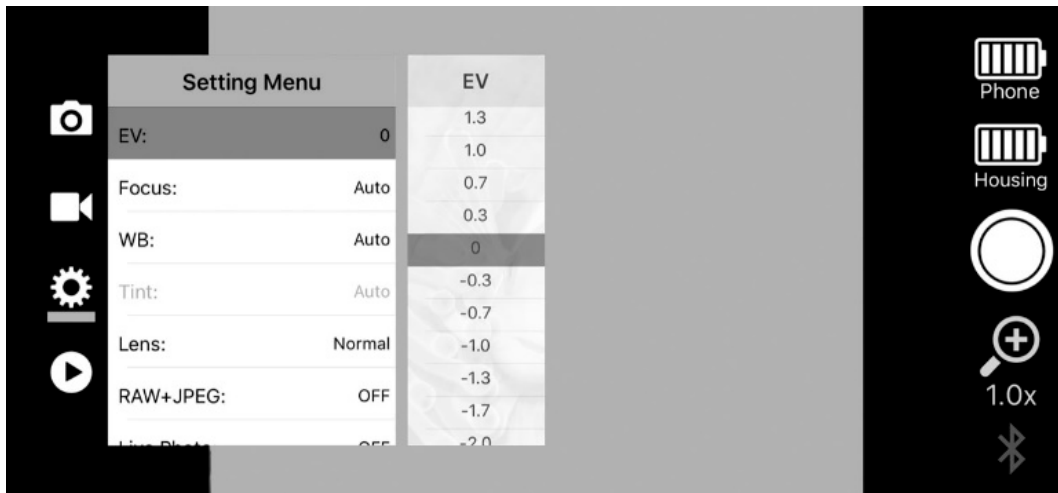
Example of 4X zoom

Note

- You may zoom from 1X (no zoom) to 10X zoom in 0.5x step increments.
- Zooming is disabled when Dual Lens, RAW+JPEG or Background Blur settings are enabled.
- When Focus is set to “Manual”, pushing the OK button switch between zoom and Manual Focus (MF)

VIII. About the Settings Menu

The SportDiver camera app will default to Auto settings when first installed. Settings will be saved when closing and opening the app. For more creative control, you may change camera settings in the Settings Menu. Available settings vary depending on what iPhone model you are using. For example, single lens iPhone models will not allow you to change the lens setting. Some settings are blocked-out when other settings are enabled. For example, Background Blur setting is blocked out unless dual lens is selected. Here is detailed information about each setting.



EV (Exposure Value)

This setting adjusts the camera's auto exposure program. Increasing the value (+) results in a brighter image exposure. Decreasing the value (-) results in a darker image exposure. The EV setting can be adjusted from +3.0 to -3.0 in 0.3 step increments. Each step is equivalent to approximately 1 exposure stop.

Focus

There are two options – Auto focus or Manual focus. Selecting Manual allows you to manually adjust the focus using the up/down buttons. When Manual is selected, push the OK button in Photo and Video modes to switch between zooming function and manual focus (MF) function. Manual focus can be adjusted from 0.00 (closest focus) to 1.00 (infinity focus) in 0.05 increments.

This setting is useful when photographing smaller subjects in the foreground, but the camera attempts to focus on the larger background area.

WB (White Balance)

The white balance setting adjusts the color temperature of light that you are shooting in, so natural colors can be restored. For example, shooting a white object underwater [without photo-video lighting], will appear blue/green rather than white. Adjusting the white balance setting can offset this color shift effect and make this object appear white again.

The default WB setting is Auto and works well in most ambient lighting environments, but not so well underwater unless you are using a photo-video light. You may manually adjust the WB color temp from

3000K (kelvin) to 8000K. When a manual WB value is selected, the color effect can be fine-tuned using the Tint adjustments described below.

SeaLife is testing different manual WB and Tint settings in varying underwater lighting conditions and depths and will post recommended settings to sealife-cameras.com when available.

For best underwater colors, use an underwater photo-video light with at least 2000 lumens. More lumens is better. Set the WB to Auto when using a photo-video light. When not shooting with a photo-video light, use the included underwater color-correction filter to help restore the lost colors.

Tint
The Tint setting is only available when a manual WB setting is selected. You cannot adjust tint if WB is set to Auto. Tint allows you to fine-tune the manual WB color setting.

Lens
If your iPhone has multiple camera lenses, you may select the lens of choice depending on what you are shooting. For most shots, the normal lens produces excellent results. The wide lens is ideal for shooting larger subjects while keeping a close shooting distance. The telephoto lens is best for subjects that don't allow you to get close-up.

The focus range for each lens varies depending on your iPhone model. The normal and wide lenses typically allow close-up shooting distance of about 2" (5cm), while the telephoto lens has a minimum shooting distance of about 10" (25cm).

If your iPhone has 2 or more lenses, you will see a dual lens option. That means the phone will use both lenses to shoot the scene for some creative effect. For example, the dual lens setting can be used for background blur effect, similar to the “Portrait” mode available with most multi-lens iPhones.

RAW+JPEG

When RAW+JPEG is On, each photo taken will be saved as a standard .jpg image and as an unprocessed RAW .dng image. RAW files are not compressed or processed, and the file size tends to be about 4 times more than a compressed JPEG image.

RAW images require post-editing using Adobe Photoshop or Lightroom. This setting is best used by photographers experienced in RAW image editing - It will take time and experience to acquire the skills needed to convert a RAW image file into a good quality image that is better than a standard processed JPEG image file.

Photo + 3 sec. Video

When Photo + 3 sec. Video is On, the app will capture a 3-second video clip with each still image. The video clip is captured 1.5 seconds before and 1.5 seconds after the still image is captured. The app will save two files – one still image and one video clip.

Background Blur

Only iPhones with two or more lenses can use the background blur setting, because two lenses are needed to create this effect. Set the Lens to Dual Lens and then turn Background Blur On. This setting works just like the Portrait mode of your native iPhone camera app.

To adjust the amount of background blur desired, open the photo in your native iPhone Photos app and select Edit. Then, select the aperture (f) adjustment. A DEPTH slide bar will appear under the displayed image. Slide to the left for lower aperture and more background blur and right for higher aperture and less background blur. The select Done to save the photo.

Power Save

Power save dims the screen after a certain amount of inactivity to save battery power. Push any button to exit the power save. You may select Off, 1, 3 or 5 minutes. The default Power Save time is 3 minutes.

Display Brightness

This setting adjusts the screen brightness. It ranges from 1.0 (brightest) to 0.0 (darkest) in 0.1 step increments. 0.8 is the default display brightness. Using a higher screen brightness makes it easier to see the display in bright sunny conditions but also uses more battery power.

Leak Alarm

The leak alarm can be turned Off if you want to bypass the 3.5-minute leak analysis described on section 5. The default setting is On.

The SportDiver underwater housing features two leak alarms. One is the pre-dive vacuum pressure analysis described in section 5. The app will display a leak alarm alert if it detects an internal pressure changing during the 3.5-minute leak analysis. This leak alarm may be turned Off.

The other leak alarm is a gold water sensor located on the inside bottom right of the underwater housing. The app will display a leak alarm alert if water, or any conductive object, like your finger, touches the sensor. This leak alarm cannot be disabled.

Blocked-out settings

The following chart shows which settings will be blocked out (not available) depending on other settings. For example, Dual Lens may not be selected when Focus is set to Manual.

Setting	Zoom adjust	EV adjust	Focus manual	WB adjust	Tint adjust	Lens Normal	Lens Dual	Lens Telephoto	RAW+JPEG	Photo+3sec Video	Background Blur	Power Save	Display Brightness	Leak Alarm
Zoom adjust	■	■					x		x		x			
EV adjust		■												
Focus manual			■				x				x			
WB adjust				■			x				x			
Tint adjust					■		x				x			
Lens Normal						■	■	■			x			
Lens Dual	x		x	x	x	■	■	■	x	x				
Lens Telephoto						■	■	■			x			
RAW+JPEG	x						x		■	x	x			
Photo+3sec Video							x		x	■	x			
Background Blur	x		x	x	x	x	x	x	x	x	■			
Power Save												■		
Display Brightness													■	
Leak Alarm														■

x	= Setting not available
■	= Setting available
■	= Does not apply

IX. Great Pictures Made Easy

Clear water visibility

Clear water is essential for good results. Tiny particles floating in the water cause low visibility and poor image quality. Avoid stirring up the sea floor with your fins. Limit your shooting distance to 1/10 of the water visibility. For example, if the visibility is 40ft (12m), you should keep your shooting distance to within 4 feet (1.2m).

Keep close shooting distance

The ideal shooting distance is within 6ft (1.8m), and the closer the better. The iPhone's minimum focus range varies depending on your model and lens selected but is typically about 2" (5cm). The iPhone can shoot excellent macro photos and videos, so take advantage of that feature.

Move calmly and control your buoyancy

It is awfully hard to take good photos or videos when you are moving around, or if your buoyancy is not controlled. Look around for great picture opportunities. Position yourself at the best angle and neutralize your buoyancy. Use the LCD monitor to perfectly frame your subject, check your shooting distance and keep the housing steady. Be calm and patient - Sometimes you must wait a little bit so fish that were frightened away, come back. Do not chase the fish, let the fish come to you. Always observe safe-diving rules.

Take several photos of each subject

You can always delete the bad shots later.

Avoiding blue photos and video

Water reduces light and filters out red/yellow colors resulting in darker, bluer ambient lighting. There are two ways to restore the lost colors:

- 1) Use one or two SeaLife Sea Dragon underwater photo-video lights (optional accessory) to enhance colors and photo/video quality. This will result in best colors, brightness and sharpness.
- 2) Use the included color-correction filter. The filter is most effective in blue water conditions at depth less than 50ft (15m). Do not use the filter when shooting with a Sea Dragon photo-video light.

Visit the SeaLife website for updates and how-to tutorials

Any updates to the manual or additional tips and advice can be found on the SeaLife website at www.sealife-cameras.com.

Ask your local SeaLife dive dealer about underwater photography courses. Most SeaLife dive dealers offer underwater photography courses which includes hands-on training as well as many helpful tips and techniques to underwater photography.

X. Replacing the O-rings

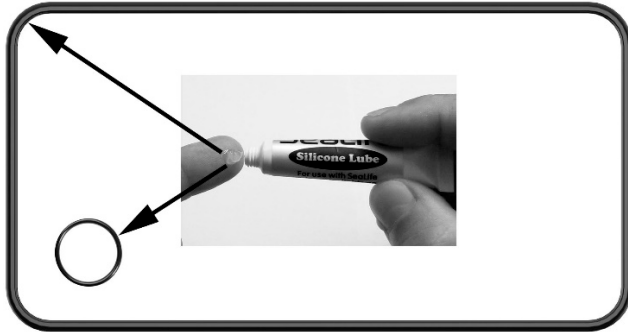
The SportDiver underwater housing has two accessible O-rings that maintain a waterproof seal - the main O-ring (A) and vacuum check port O-ring (B). Replace the O-rings if damaged or every year. One spare O-ring set is included. See your authorized SeaLife dealer to purchase additional O-ring Sets (Item SL40010)



Remove the O-rings - Use the O-ring removal tool to lift and remove the O-ring from its groove.

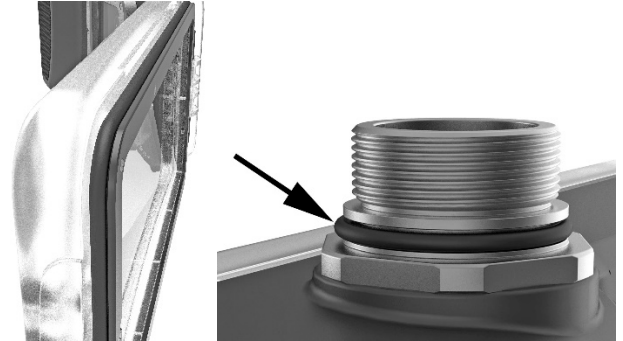


Lube the O-rings - Before installing the O-rings, clean the O-rings with a slightly dampened, lint-free cloth. Apply a thin film of silicone lube to each O-ring. Use your fingertips to evenly spread the lube. Do not stretch the O-rings.



Apply thin film of lube to O-rings

Install O-rings – Clean the O-ring grooves with a slightly dampened, lint-free cloth. Carefully install the O-rings making sure not to twist the O-rings.



Be careful not to twist the O-ring when installing

XI. Care and maintenance

Every SeaLife SportDiver underwater housing is inspected for quality, including a 130ft (60m) pressure chamber test to ensure a waterproof seal. It is your responsibility to properly care for housing and maintain the O-ring sealing area. Carefully follow these important O-ring care instructions. Not following these care instructions may cause the waterproof housing to leak and void your warranty.

- The underwater housing is depth tested to 130ft (40m). Exceeding this depth may cause the housing to flood and may result in damaging the underwater housing and inner camera.
- Do not directly or indirectly expose the underwater housing to spray-on sunscreens. Most spray-on sunscreens contain chemicals that may react with polycarbonate and other plastics, causing cracks that compromise the waterproof seal. If sunscreen gets on the housing, clean it with moistened soft cloth.
- Soak the sealed housing in fresh water for about 20 minutes after underwater use or if the housing becomes dirty. Push each button 20 times to flush out saltwater, sand or dirt trapped under the buttons.
- Use clean, soft cloth to dry housing. Make sure that you and the waterproof housing are completely dry before opening the waterproof door.
- Store camera and housing only after careful cleaning and when totally dry. Keep the housing's waterproof door slightly open when storing for more than 3 months.

- Do not use any household cleaners, soaps, detergents, or chemicals to clean the underwater housing. Chemicals may cause negative reaction with the plastic materials.
- Replace O-ring every year to ensure proper seal. Only use the official SeaLife O-rings designed for the SportDiver underwater housing (Item # SL40010). Replacement O-rings are available at your local authorized SeaLife dealer, or online at www.sealifepartsdirect.com (USA Only).
- Do not expose the housing to direct sunlight for prolonged periods of time. Keep housing in a shaded area or under a towel to prevent it from overheating.
- Do not disassemble or attempt to repair the housing as this will void your warranty. Contact your local authorized SeaLife dealer or the SeaLife Service Center in your country for repairs.
- Use the included lanyard to strap the underwater housing to your wrist or clip the housing to your BCD (buoyancy control device).
- Do not let any moisture or dirt get inside housing when opening. This may result in fogging when using the camera underwater.
- Avoid opening housing in wet, sandy, or humid environments. It is recommended to open and load the housing in dry cool air, such as inside an air-conditioned room. This will prevent water or humidity from being trapped inside the housing, which may cause fogging during underwater use.
- Store housing at room temperature in a clean and dry place.

XII. Specifications

For comprehensive product specifications, visit www.sealife-cameras.com

Model	SeaLife SportDiver Underwater Housing for iPhone®
Item #	SL400
Certifications	CE, FCC, Bluetooth SIG Listing, ROHS
Depth rating	130ft (40m)
Buoyancy (in seawater)	Positive + 2.8 oz. (80g) UW housing only with batteries, red filter and Moisture Muncher; without phone. Subtract weight of phone for total UW buoyancy
Controls	Top: Shutter lever Back: Mode, Up, Down and OK
Operating Temp.	Underwater: 33°F to 110°F (1°C to 43°C) Land: 0°F to 120°F (-17°C to 49°C)
O-ring	Rabalon™ TPE material (item # SL40010)
Lens port	Optical glass lens port with anti-reflective coating on internal surface
Tripod mount	Triple ¼-20 tripod threads for attaching accessories.

Housing material	Polycarbonate body, TPE rubber, T6061 hard anodized lens frame and 304 - 316 series marine grade stainless steel metal hardware.
Radio frequency	Bluetooth® Low Energy (LE) Frequency Band: 2402-2480MHz; RF Power: -1.95dBm
Battery	2x AAA Alkaline (or NiMH rechargeable battery)
Battery life	Approx. 50 hours
Weight	24.0 oz. (680g) UW housing only – with batteries, filter, Moisture Muncher
Dimensions	External: 8.4" x 4.9" x 2.2" (213.1 mm x 125.7 mm x 54.8 mm) Internal: 6.3" x 3.1" x 0.6" (160 mm x 79 mm x 15mm)
Warranty	1 year limited warranty.

XIII. Troubleshooting

Refer to the symptoms and solutions listed below before sending the camera for repairs. Any updates may be found on the SeaLife website at www.sealife-cameras.com. Look for “Technical Updates” section. If repair service is still needed, please contact your local authorized SeaLife dealer for service.

XIV. Spare parts and service

If your SeaLife product needs service or if you need replacement parts, please contact your local authorized SeaLife dealer or visit the SeaLife website for instructions at www.sealife-cameras.com/parts-and-service/.

XV. FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC Statement

(RSS-Gen section 7.1.3)

Canada, Industry Canada (IC) Notices

This device complies with Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Canada, avis d'Industry Canada (IC)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when operated in portable exposure conditions.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce dispositif a été évalué pour et démontré conforme à la Taux IC d'absorption spécifique ("SAR") des limites lorsqu'il est utilisé dans des conditions d'exposition portatifs.

CE

The SeaLife SportDiver SL400 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.



XVI. Limited Warranty

Manufacturer warrants to the original purchaser (the “Purchaser”) of this product (the “Product”), provided the Product was at the time of purchase, new and unused and in its original packaging for a period of one (1) year from the date of purchase (the “Warranty Period”), that the Product is free from defects in workmanship and materials when used in accordance with Manufacturer’s published specifications. In the event that the Purchaser believes the Product contains a defect, the Purchaser should seek troubleshooting advice from the SeaLife website at www.sealife-cameras.com or the importer of the Product in the country in which the Product was purchased by the Purchaser. The local authorized SeaLife Dealer can also assist with Product servicing and, in the event it is determined that the product requires servicing, can issue to Purchaser a return authorization number. To be entitled to any remedy hereunder, Purchaser must return the Product to Manufacturer within the Warranty Period, at the sender’s risk, accompanied by the following (the “Claim Requirements”): (a) a Manufacturer issued return authorization number, (b) a letter describing in the defect in reasonable detail; (c) a valid address for the Purchaser; and (d) a copy of the original purchase receipt or proof of purchase specifying the purchase date of the Product. For more information about repair service, or to locate a service center in your country, please visit the SeaLife website at www.sealife-cameras.com.

Important: The foregoing limited warranty applies only to the Product sold by Manufacturer. This limited warranty does not cover, and does not provide any remedy for damage to, any smart phones, other electronic devices, or other products, used in connection with the Product. Purchaser understand and agrees that while Manufacturer has undertaken commercially reasonable efforts to ensure that the Product functions in accordance with Manufacturer’s applicable published specifications, some risk of flooding or other failure remains when the Product is used, which risk the Purchaser assumes.

In the event Purchaser returns the Product to Manufacturer with the Claim Requirements, and Manufacturer is able to replicate the alleged defects or leaks, and determines in its reasonable discretion that the Product contains a defect in workmanship or materials, Manufacturer will, in its absolute and sole discretion, repair or replace this Product and return it to Purchaser free of charge. In the event that Manufacturer is unable to replicate alleged defects or leaks, or determines that the product does not contain a defect in workmanship or materials, Manufacturer will notify Purchaser and upon request by Purchaser Manufacturer will return the Product to Purchaser at Purchaser expense.

Excluded from this warranty are any damages caused by the failure to use the Product in accordance with Manufacturer's published specifications, cosmetic damages, damages caused by abuse, misuse, wear, tear, water damage caused by damaged O-ring or O-ring contact surfaces or debris trapped between the product housing and the O-ring, damages caused by exposure to sunscreens or other chemicals, repair or attempted repair by unauthorized persons, improper storage, non-performance of scheduled maintenance, and battery leakage.

THE FOREGOING IS PURCHASER'S SOLE AND EXCLUSIVE REMEDY, AND MANUFACTURER'S SOLE AND EXCLUSIVE OBLIGATION, WITH RESPECT TO A CLAIM THAT A PRODUCT IS DEFECTIVE. EXCEPT FOR THE LIMITED WARRANTY SET FORTH ABOVE, MANUFACTURER DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCT INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. UNDER NO CIRCUMSTANCES SHALL MANUFACTURER BE LIABLE TO PURCHASER OR ANY THIRD PARTY FOR ANY SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS, INJURIES TO PERSONS OR PROPERTY, OR DAMAGES FOR WHICH PURCHASER MAY BE LIABLE TO OTHER PERSONS OR ENTITIES, EVEN IF MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND WHETHER THE CLAIM IS FOR BREACH OR REPUDIATION OF CONTRACT, BREACH OF WARRANTY, TORT, NEGLIGENCE OR OTHERWISE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE FOREGOING LIMITATIONS MAY NOT APPLY. ANY OF THE FOREGOING NOTWITHSTANDING, IN NO EVENT SHALL MANUFACTURER'S MAXIMUM AGGREGATE LIABILITY ARISING OUT OF OR RELATING TO THE SALE OF THE PRODUCT EXCEED THE PURCHASE PRICE PAID TO MANUFACTURER FOR THE PRODUCT.

This limited warranty is governed by the laws of the State of New Jersey, U.S.A. Any warranty claim, or other dispute arising out of or related to this limited warranty or the Product, shall be brought exclusively in the state or federal courts located in the State of New Jersey, U.S.A., the exclusive jurisdiction and venue of which Purchaser and any party from which Purchaser purchased the Product, directly or indirectly, irrevocably consent to for this purpose.

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SportDiver™

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