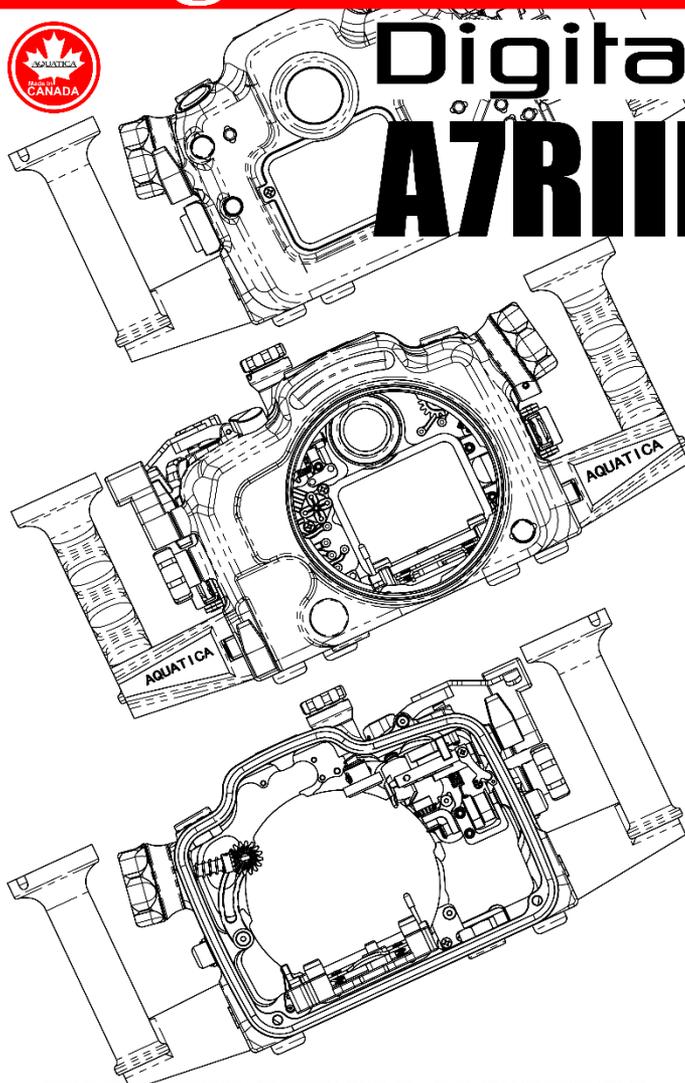


# AQUATICA™



## Digital A7R III



## INSTRUCTION MANUAL

Product #20085

- ✦ Thank you for purchasing your Aquatica A7RIII housing. Before you start to use your new housing, please read these instructions carefully. Keep this manual in a safe place for future reference.
  
- ✦ This instruction manual assumes that the camera user is already familiar with the Sony 7RIII camera. If not, please read your camera instruction manual before attempting to use the housing.
  
- ✦ Please visit the Aquatica Digital website for further information.

### AQUATICA PRODUCT NUMBERS

<b>20085-NK</b>	Aquatica housing for Sony 7RIII <i>Including dual Nikonos bulkheads</i>
<b>20085-OPT</b>	Aquatica housing for Sony 7RIII <i>Including dual optical fiber ports</i>
<b>20085-KT</b>	Aquatica housing for Sony 7RIII <i>Including dual Ikelite bulkheads</i>
<b>20085-NK-VC</b>	Aquatica housing for Sony 7RIII <i>Including dual Nikonos bulkheads + Surveyor kit</i>
<b>20085-OPT-VC</b>	Aquatica housing for Sony 7RIII <i>Including dual optical fiber ports + Surveyor kit</i>
<b>20085-KT-VC</b>	Aquatica housing for Sony 7RIII <i>Including dual Ikelite bulkheads + Surveyor kit</i>

**NOTE:** Shown housing illustrations may differ from your actual housing depending on the ordered version. General pictures are mostly showing the 20085-OPT version of the housing.

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## Safety precautions

Please carefully read and follow the following precautions and recommendations:

- ✦ Improper transportation, handling or use of this housing might cause a flood or a malfunction. Follow all recommendations stated in the next sections of this manual.
- ✦ Never remove, change a port or open the housing in a location where sand or similar foreign material might come in contact with an O-ring. Be wary of strong winds as they could potentially be carrying sand or other harmful particulate matter.
- ✦ Always perform a simple preventive seal test without the camera inside after doing maintenance on the housing.
- ✦ Non-authorized use of third-party accessories, as well as modifications and/or alterations not specifically authorized by Aquatica may affect performance, cause poor functioning of the controls or impair the sealing integrity of the housing.
- ✦ Always handle the ports carefully. Protect them when not in use to avoid scratching the acrylic or glass surface of ports and windows.
- ✦ Always confirm that the ports remain properly attached before rinsing the housing. When rinsing without a wired strobe, confirm that the bulkhead strobes connectors are sealed with their plug.
- ✦ Never jump into the water with the housing. Have the system handed to you after you have made your entry or have it lowered to you on a rope.
- ✦ Never handle the housing by grabbing the port, or if using one, the Aqua View finder.
- ✦ Make sure that boat staff are familiar with these procedures and advise them to manipulate the housing by using the grips provided with the housing.

### Product specifications

Construction	Housing body	6061-T6 Aluminium
	Surface treatment	Anodized + powder coated
	Windows	Optical acrylic
	Grip handles	Black PVC
Physical	Dimensions WxHxD (w/o grips)	250mm x 163mm x 127mm 9.8" x 6.4" x 5"
	Width (w/ grips)	350mm x 163mm x 127mm 13.8" x 6.4" x 5"
	Weight (w/o camera)	2.6 Kg / 5.7 lbs
	Buoyancy	Slightly negative
	Depth rating	100 msw - 330 fsw
Features	Ergonomic control placement	Facilitated access to following controls:
	Locking saddle	 Safe locking of the saddle inside the housing using our proven locking system. Saddle is easily released by pressing the locking tab.
	Aqua View finder compatibility	Aqua View finder 45° Aqua View finder 180°
	Moisture/vacuum alarm	Supplied with the Surveyor moisture and vacuum sensor alarm.
	Flash capability <sup>1</sup>	Compatible with the following depending on flash option: <ul style="list-style-type: none"> <li> Optical triggering</li> <li> Nikonos-style bulkhead</li> <li> Ikelite-style bulkhead</li> </ul>

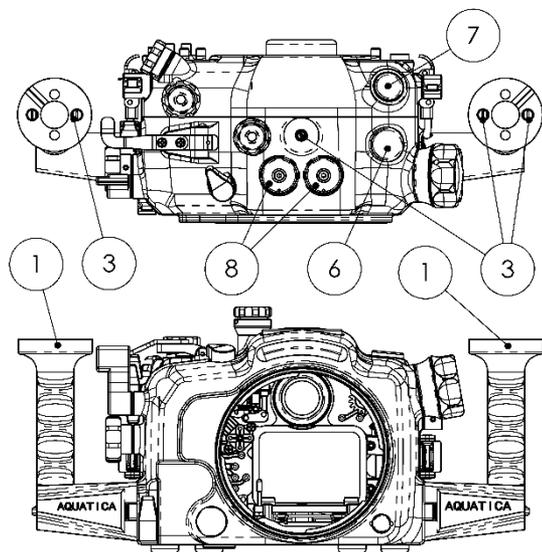
<sup>1</sup> Note that all of the A7RIII flash triggering options **are not** TTL compatible.

## Package contents

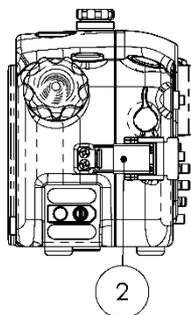
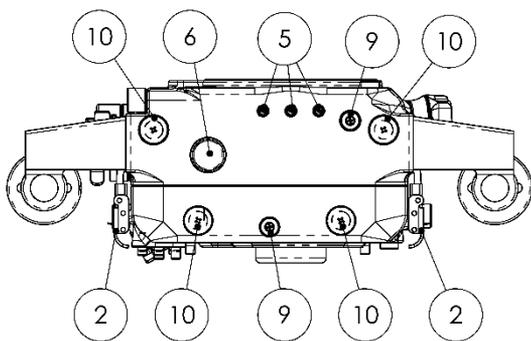
- ✿ A7RIII housing
- ✿ Handle grips (2) with screws (2)
- ✿ A7RIII instruction manual
- ✿ Lens chart
- ✿ Spare housing seal O-ring
- ✿ CR 2032 coin cell battery (for Surveyor)
- ✿ Aquatica O-ring lubricant container
- ✿ Set of Allen keys
- ✿ Optical flash trigger  
(for 20085-OPT and 20085-OPT-VC kits)
  - ✿ CR 2450 coin cell batteries (2)
- ✿ Vacuum pump  
(for 20085-NK-VC, 20085-OPT-VC and 20085-KT-VC kits)

### Housing schematics

#### Housing components



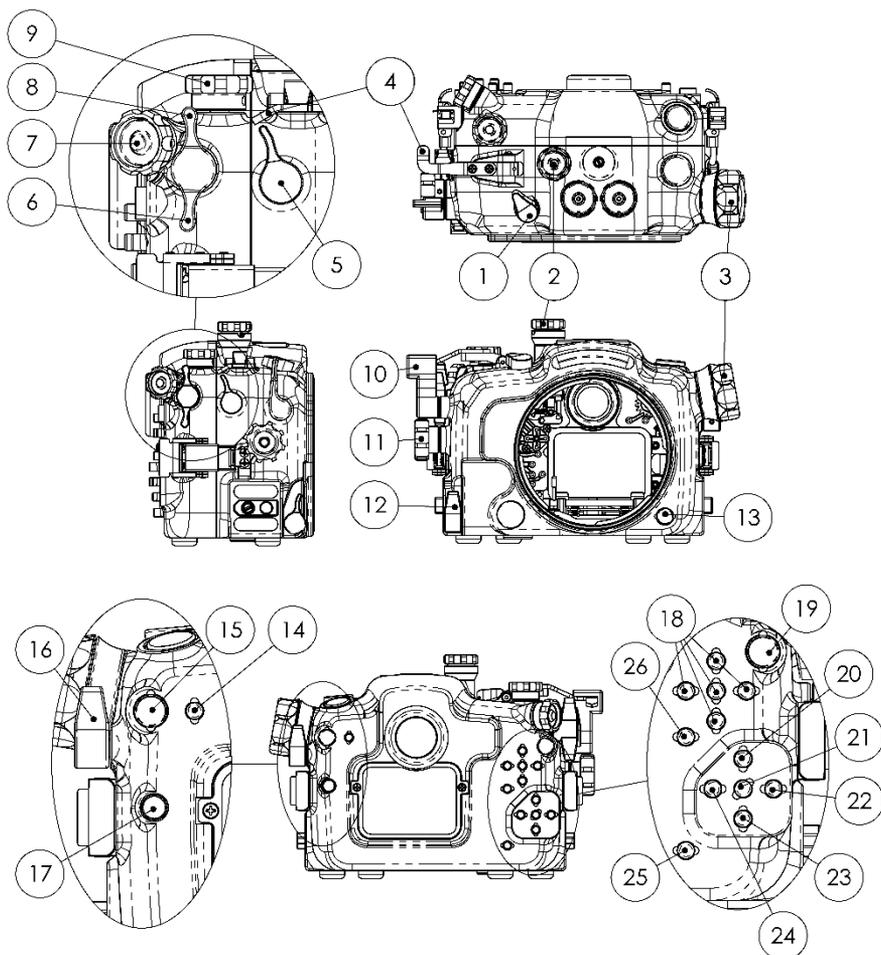
- |    |                                  |
|----|----------------------------------|
| 1  | Handle grips (2)                 |
| 2  | Closing latches (2)              |
| 3  | Ball mounts <sup>2</sup> (2)     |
| 4  | Top ball mount                   |
| 5  | Tripod mount                     |
| 6  | 16mm ports (2)                   |
| 7  | ½" port                          |
| 8  | Flash bulkheads <sup>3</sup> (2) |
| 9  | Zinc anodes (2)                  |
| 10 | Rubber pads (4)                  |



<sup>2</sup> All mounts are using ¼-20 UNC threads.

<sup>3</sup> Nikonos bulkheads shown.

### Housing functions



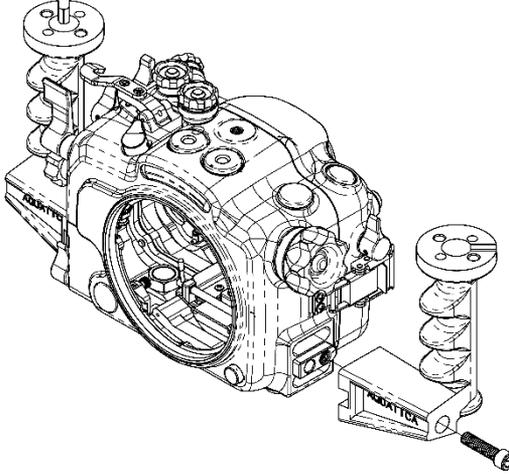
*(See table on next page)*

<b>1</b>	<b>ON-OFF lever</b>	<b>20</b>	<b>DISP button (up)</b>
<b>2</b>	<b>Mode dial</b>	<b>21</b>	<b>Select button (center)</b>
<b>3</b>	<b>Zoom-Focus Wheel</b>	<b>22</b>	<b>ISO button (left)</b>
<b>4</b>	<b>C1 lever</b>	<b>23</b>	<b>Down button</b>
<b>5</b>	<b>C2 Lever</b>	<b>24</b>	<b>Drive button (right)</b>
<b>6</b>	<b>Record lever</b>	<b>25</b>	<b>Delete button (C4)</b>
<b>7</b>	<b>Rear dial wheel</b>	<b>26</b>	<b>Fn button</b>
<b>8</b>	<b>AF-ON lever</b>		
<b>9</b>	<b>Expo comp dial</b>		
<b>10</b>	<b>Shutter release lever</b>		
<b>11</b>	<b>Front dial wheel</b>		
<b>12</b>	<b>Port release lever</b>		
<b>13</b>	<b>Lens release button</b>		
<b>14</b>	<b>Menu button</b>		
<b>15</b>	<b>C3 button</b>		
<b>16</b>	<b>Playback button</b>		
<b>17</b>	<b>Alarm LED window</b>		
<b>18</b>	<b>Multi-selector</b>		
<b>19</b>	<b>AEL button</b>		

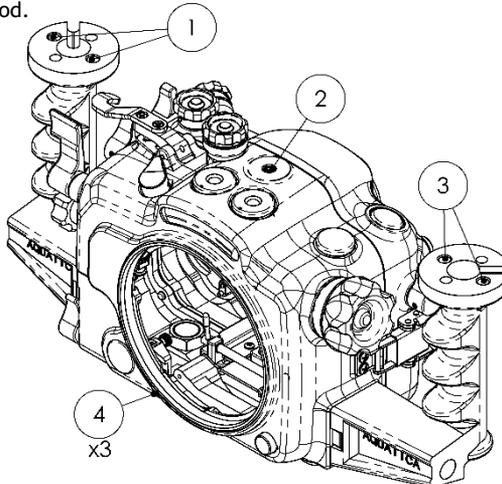
## Housing preparation

Follow these steps to prepare your A7RIII housing for use:

**STEP 1:** Assemble the grips onto your housing using the provided screws (2) and Allen key.



**STEP 2:** If you are adding any shoes, brackets or ball mounts onto your housing, mount them using the intended 1/4-20 UNC threaded holes. You can use the threaded holes on the handle grips (#1,#2), the top one (#3) or the bottom ones (#4) for your tripod.



**STEP 3:** Mount your strobes and their arms onto the housing. For details about optical flash triggering and wired bulkheads, refer to the *Accessories, Flash triggering* section (page 25). Follow your strobe manufacturer manual and its recommendations.

**STEP 4:** Before use, remove the main O-ring seal from its groove on the front half of the housing and carefully verify that the O-ring and its groove are free from scratches or foreign matter. Lubricate the O-ring with a light coat of silicone grease.

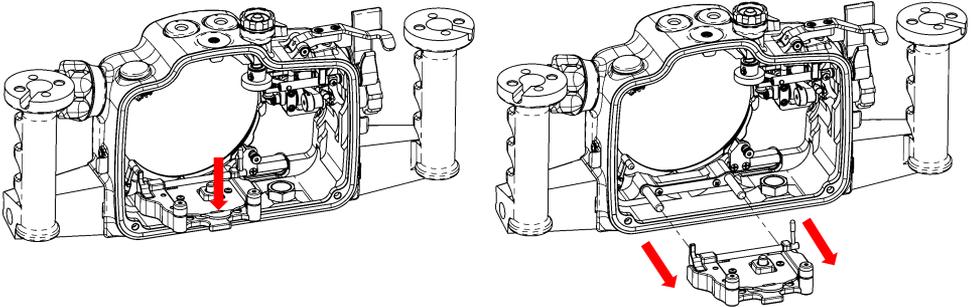
**WARNING:** For proper handling of O-rings, follow the detailed instructions outlined in the *Care and maintenance, O-rings* section (page 31).

**STEP 5:** Insert the provided CR 2032 coin cell battery in the Surveyor alarm (rear half of housing) as described in the *Accessories, Surveyor sensor* section (page 21).

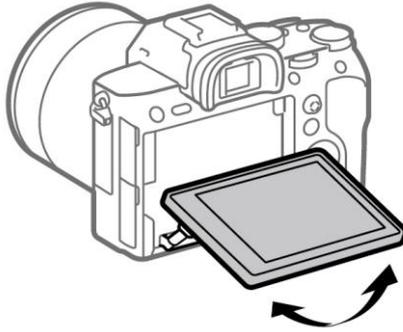
## Camera installation

Follow these steps to prepare your Sony A7RIII camera for use with your housing. It is also advisable to set your camera shooting preferences before inserting the camera into the housing in order to save valuable time underwater.

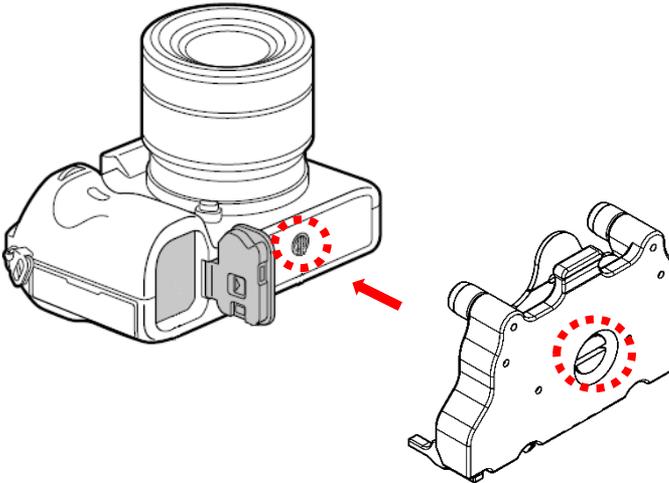
**STEP 1:** Remove the saddle from the housing by pressing the saddle locking tab and pulling the saddle out of the housing.



**STEP 2:** Tilt the camera monitor screen up.

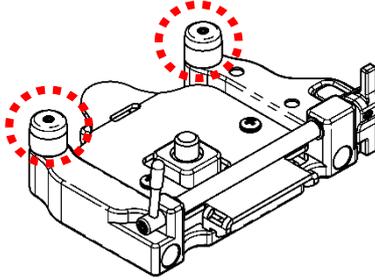


**STEP 3:** Install the camera on the saddle by aligning the positioning hole under the camera and tighten the bottom screw with either a flat screwdriver or a coin.



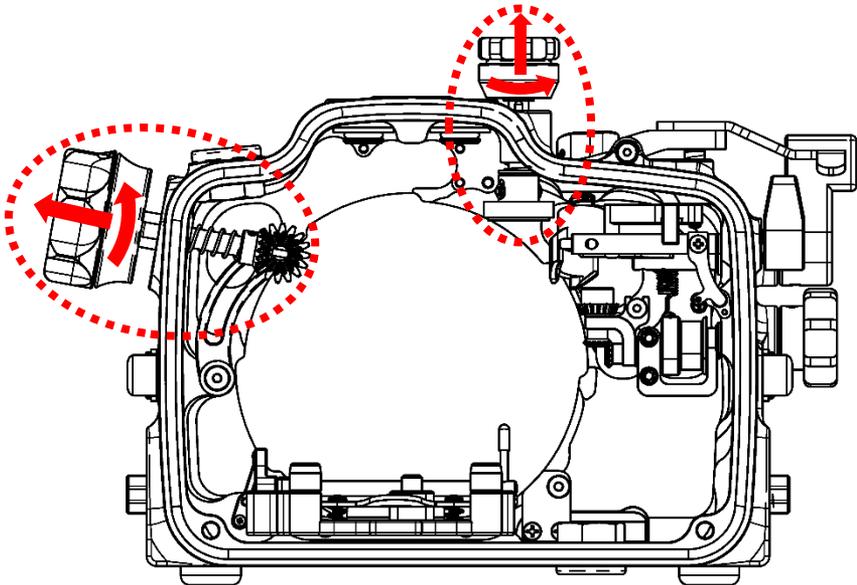
**NOTE:** *If you are using optical flash triggering, install your flash trigger on your camera by following the procedure outlined in the Accessories, Flash triggering section.*

**STEP 4:** Tilt the camera screen down until it is resting on the saddle rear stoppers.



*NOTE: Camera is not shown in this view.*

**STEP 7:** To avoid interference with the camera pull the mode dial away from the housing and turn it in any direction to lock it in place. If you have a lens with a gear installed on the camera pull the zoom-focus knob and turn it to lock it in place as well as shown in the figure below.



- STEP 8:** Slide the camera and saddle assembly inside the housing using the two guiding pins. Push it all the way through until you hear the locking mechanism click in the housing. Perform a check by pulling on the saddle to ensure it is firmly attached to the housing.

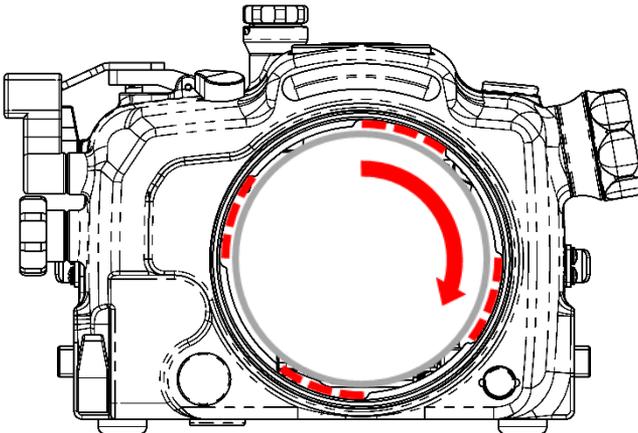
## Port mounting

The A7RIII housing is equipped with a bayonet locking system that firmly attaches compatible ports and extensions.

- STEP 1:** Before mounting the port, remove the O-ring seal from its groove and carefully verify that the O-ring and its groove are free from scratches or foreign matter. Lubricate the O-ring with a light coat of silicone grease. Also check that the O-ring mating surface on the housing is clean and free of any physical damage.

**WARNING:** For proper handling of O-rings, follow the detailed instructions outlined in the *Care and maintenance, O-rings* section (page 31).

- STEP 2:** Place the housing on its back on a soft and steady surface.
- STEP 3:** Place the port or extension ring inside the housing bayonet. Align the bayonet using the four alignment notches in the housing.





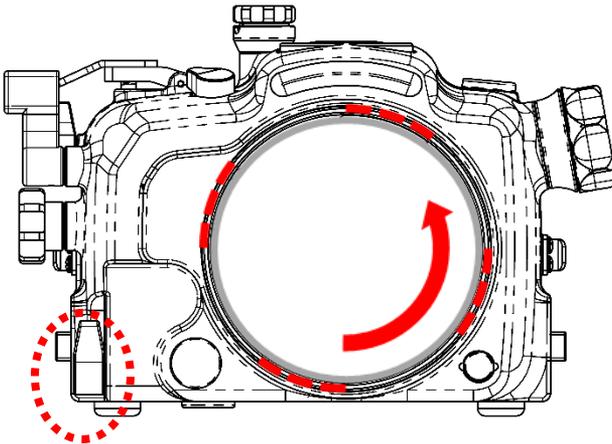
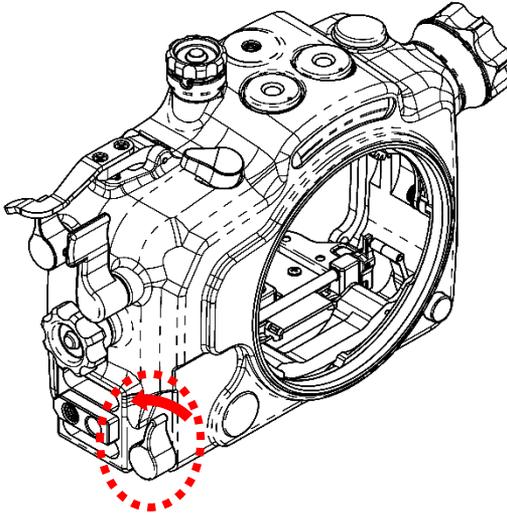
- STEP 4:** Push with even force on both sides of the port or extension ring until you feel it snap into place. Make sure the bayonet is completely inside the housing.
- STEP 5:** Rotate the port clockwise until it stops. **Do not force it.** If there is too much resistance, take the port off, check the O-ring and see that the port or extension ring is properly seated before attempting to rotate it again.
- STEP 6:** Confirm that the port or extension ring is safely locked in the housing by gently trying to rotate it counter-clockwise. The bayonet lock should prevent any counter-clockwise rotation.

**WARNING:** If you are using older lenses, never attempt to manually focus the camera if it is set to autofocus mode with a mounted focus gear engaged. This will strain the focus mechanism motor and might damage your lens.



## Port removal

**STEP 1:** While pressing the port release lever, rotate the port or extension ring counter-clockwise until it stops.



**STEP 2:** Carefully pull the port or extension ring out of the housing.

## Housing closing

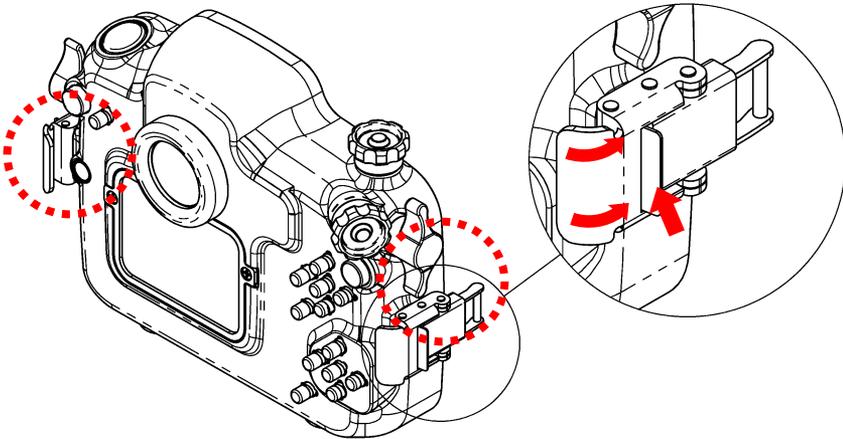
**STEP 1:** Before closing the housing, remove the O-ring seal from its groove and carefully verify that the O-ring and its groove are free from scratches or foreign matter. Lubricate the O-ring with a light coat of silicone grease. Also check that the O-ring mating surface on the housing is clean and free of any physical damage.

**WARNING:** For proper handling of O-rings, follow the detailed instructions outlined in the *Care and maintenance, O-rings* section (page 31).

**STEP 2:** Perform either a Surveyor moisture alarm test or a vacuum check if you are using a pump. Refer to *Accessories, Surveyor sensor* and *Vacuum pump* sections (from page 21) for a complete procedure.

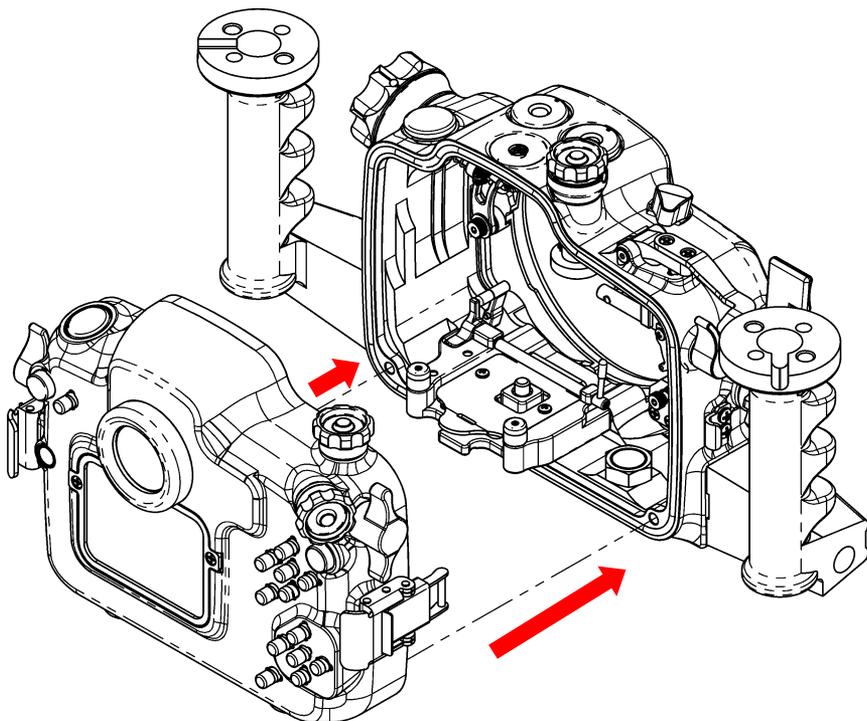
**STEP 3:** Be sure that the housing is free of any foreign object that could interfere during closing.

**STEP 4:** Be sure that both locking latches on the rear section of the housing are unlocked. If unlocked, latches should be able to rotate freely, if they cannot rotate freely, unlock them by pressing the locking tab and pulling them out.



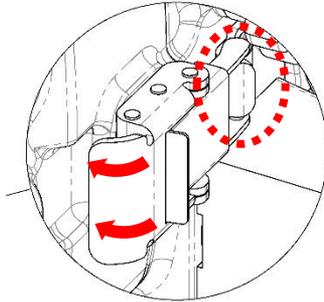
**STEP 5:** Pull the latches out so they don't interfere with the front section hooks upon closing.

**STEP 6:** Align the rear section of the housing with the front one using the two guiding pins.



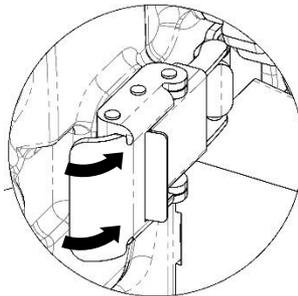
**STEP 7:** Close the two housings shells together.

**STEP 8:** Once both sections of the housing are pressed against each other, rotate each latch towards the front until it catches the front hook then pull back on both latches simultaneously until they lock into position.



**WARNING:** In the event that you should feel any unusual resistance when attempting to close your housing, do not force closure. Reopen and inspect carefully for any potential obstruction before trying again.

**STEP 10:** Verify that both latches are locked by trying to pull them out **without pressing the locking tab**. If properly locked, you should not be able to open them by simply pulling them out.

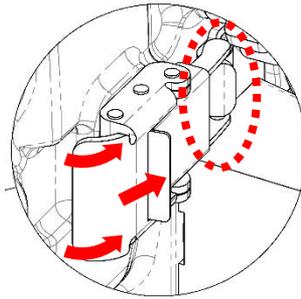




## Housing opening

**NOTE:** *If your housing is under vacuum, you won't be able to open it directly with the following procedure. See note in Accessories, Vacuum pump section.*

**STEP 1:** Unlock both latches by pressing the locking tabs and pulling them out.



**STEP 2:** Rotate both latches to free them from the front hooks and pull out the rear section.

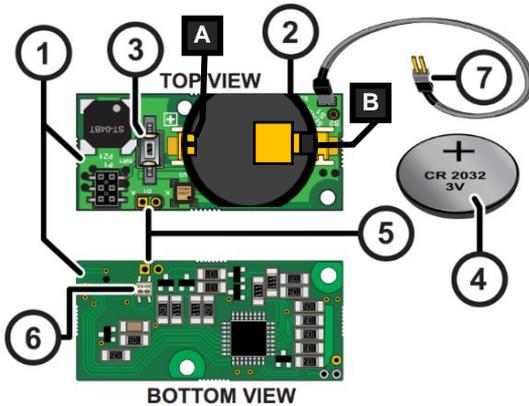
## Accessories

### Surveyor sensor

Your A7RIII housing comes standard with the Surveyor moisture alarm. This sensor device has two distinct subsystems that operate independently.

- 1- a moisture detection circuit that is always on as long as the battery is not depleted
- 2- an ambient pressure sensor circuit that can be activated before using a vacuum pump

**NOTE:** *If not being used for a very prolonged period of time, it is recommended to remove the battery from the sensor circuit to avoid unnecessary drain.*



1	Sensor circuit
2	Battery holder
3	Vacuum power switch
4	CR 2032 3V battery
5	External LED point
6	Integrated warning LED
7	Probe wire harness

#### To insert the CR 2032 battery:

- STEP 1:** With the (+) side facing up, slip the battery under the plastic tab (B).
- STEP 2:** Push the part of the battery that is sticking out into the holder (on A side).

#### To remove the CR 2032 battery:

- STEP 1:** Push the plastic tab (B) away from the holder.
- STEP 2:** Grab the battery by the sides sticking out of the holder and pull it out.

**Moisture alarm mode LED code:**

Standby mode	LED is off <i>System is on standby</i>	
Water detected	Red LED flashing with audible alarm <i>Water is making contact with probe</i>	

**WARNING:** It is recommended to perform a quick test of the circuit before every dive. To do so, simply moisten the tip of your finger and establish contact between the board probes (#7). If it fails to activate the alarm, check that the battery is correctly inserted and replace it with a fresh one if required.

**Vacuum sensor mode LED code:**

If you want to benefit from the full capabilities of your Surveyor sensor, you can order the optional vacuum pump system (#19228). The vacuum function of the Surveyor offers the user an efficient monitoring tool to check the housing’s sealing integrity before and during a dive.

The table on the following page shows the vacuum sensor mode LED code. See *Accessories, Vacuum pump* section (pages 25-27) for the required procedure to obtain a vacuum using the pump.

Standby mode	LED is off <i>System is on standby</i>	
Vacuum ready	Green LED flashing <i>System is ready to be depressurized</i>	
40-100% Vacuum	Yellow LED flashing <i>Building vacuum inside housing</i>	
100% Vacuum	Green LED solid <i>Required level of vacuum is achieved</i>	
Over-depressurization <sup>4</sup>	Green LED flashing <i>System is getting depressurized over the required threshold</i>	
Vacuum standby	Green LED flashes once every 4 sec <i>Housing system is holding vacuum</i>	
Loosing vacuum <sup>5</sup> 40-60%	Yellow LED flashing <i>Housing is losing vacuum over time</i>	
Lost vacuum 0-40%	Red LED flashing w/ audible alarm <sup>6</sup> <i>Housing has lost vacuum</i>	
Water detected	Red LED flashing with audible alarm <i>Water is making contact with probe</i>	

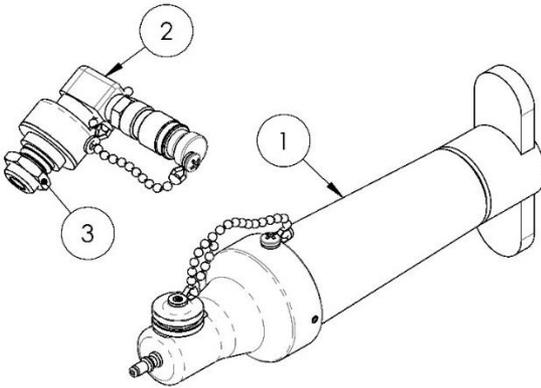
<sup>4</sup> Everything is OK, just stop pumping vacuum.

<sup>5</sup> Indication of a slow leak behavior.

<sup>6</sup> Alarm will stay on during 30 seconds before going back to standby mode.

### Vacuum pump

A vacuum pump will allow you to fully benefit from the capabilities of your Surveyor sensor. Your pump kit (either #19228 or #19233) includes the following parts:



1	Vacuum pump
2	Pressure valve
3	Retaining nut
*	Aquatica lubricant

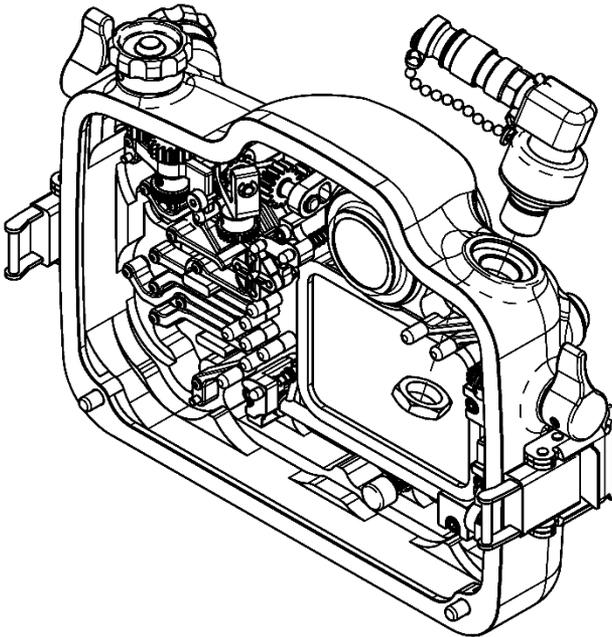
If your pump was not factory installed or purchased separately, you will need to install the pressure valve bulkhead on your housing. You have two optional locations to install your vacuum pump system:

- ✚ Rear ½" bulkhead port, compatible with pump kit #19228
- ✚ Front 16mm bulkhead port, compatible with pump kit #19233

While it is possible to mount your pump in the front 16mm port, it is recommended to use the dedicated ½" port. **Using the front 16mm port will prevent you from using an external HDMI monitor bulkhead.**

### To install your valve:

- STEP 1:** Remove the existing plug by unscrewing the hexagonal nut inside.
- STEP 2:** Lubricate the valve bulkhead O-ring using provided Aquatica O-ring lubricant (see *Care and maintenance, O-rings section at page 31* for more information).
- STEP 3:** Carefully insert the valve bulkhead into the selected port, slightly rotating the valve while pushing will facilitate the insertion.
- STEP 4:** Tighten the retaining nut using a 5/8" wrench.

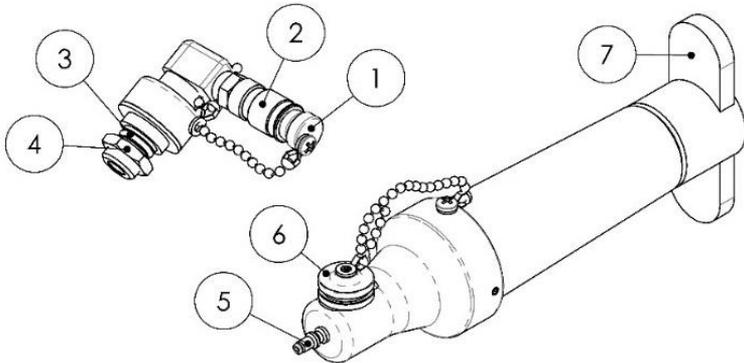


*NOTE: Installation is shown on rear 1/2" bulkhead port.*

## To use your vacuum monitoring system:

**STEP 1:** Prior to closing your housing, put your Surveyor sensor in vacuum mode by pressing the activation switch on the board (#3 on page 21). The Surveyor green LED should be flashing rapidly upon activation.

**STEP 2:** Close your housing using procedure outlined in the *Housing closing* section (page 17).



**STEP 3:** Remove the valve plug (#1) by sliding the quick-disconnect collar (#2).

**STEP 4:** Insert the pump stem (#5) in the pressure valve and release the quick disconnect collar (#2).

**WARNING:** To avoid breaking or bending the stem (#5), keep the pump body in line with the valve while pumping air out of the housing.

**STEP 5:** Make sure the pressure release plug (#6) is screwed all the way in (clockwise).

**STEP 6:** Build vacuum inside your housing by pumping the handle (#7). The amount of pumping required will vary according to the housing dimensions and the port configuration being used. However, the proper amount of vacuum should always be attainable within a reasonable delay. Refer to vacuum LED code table in *Accessories, Surveyor sensor* section.

**NOTE:** Once you reach 100% vacuum (solid green) stop pumping air out of the housing. Pumping too long past the desired threshold can trigger an alarm. You will have to reopen the housing and start over from step 1.

**STEP 7:** Remove the pump by sliding the quick-disconnect collar (#2) and put back the plug (#1) in the pressure valve.

**NOTE:** *Once your housing is under vacuum, it is important to return the housing back to ambient pressure before attempting to remove your port or open the housing. To return ambient pressure, insert the pump back into the valve (STEP 4) and remove pressure release plug (#6). Once the hissing sound stops, you can remove the pump (STEP 7). The housing is now back to ambient pressure.*

**WARNING:** If your housing fails to maintain a constant vacuum, proceed a thorough inspection of the user serviceable O-rings of the housing. If unsuccessful in determining the source of the leak, refrain from immersing the housing and return it to your authorized service center for inspection.

### Flash triggering

There are three flash options compatible with the A7RIII housing:

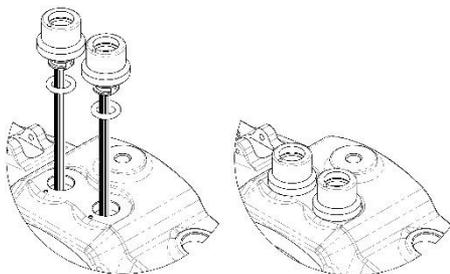
- ✦ Optical triggering (#20085-OPT and #20085-OPT-VC)
- ✦ *Nikonos*-style bulkhead (#20085-NK and #20085-NK-VC)
- ✦ *Ikelite*-style bulkhead (#20085-KT and #20085-KT-VC)

**NOTE:** Note that none of the offered flash triggering options on the A7RIII housing are TTL compatible.

For *Nikonos* and *Ikelite* style bulkheads, simply insert the hotshoe cable (usually velcroed to the top of the housing) into your camera's hotshoe.

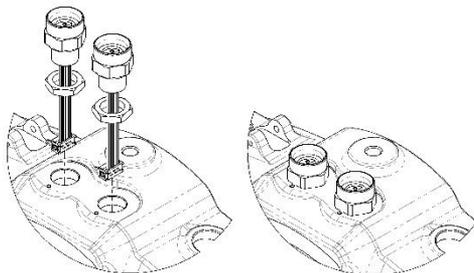
#### *Nikonos*

(#20085-NK and #20085-NK-VC)



#### *Ikelite*

(#20085-KT and #20085-KT-VC)



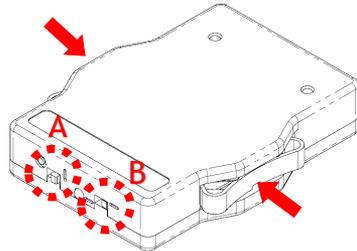
# AQUATICA™

## Digital



If your housing is equipped with the optical flash option, you will need to use the provided optical flash trigger (#).

- STEP 1:** Remove the battery trays from the flash trigger
- STEP 2:** Insert the provided CR 2045-coin cell batteries inside the 2 battery trays (positive side up)

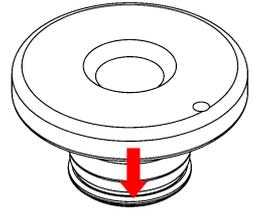


**WARNING:** Only use 2 x CR 2045-coin cell batteries to power your flash trigger. Using other types of batteries could cause damage to your flash trigger.

- STEP 3:** Insert the battery trays inside the flash trigger
- STEP 4:** The flash trigger has a power switch (A) and intensity switch (B).

Upon turning on the flash trigger the notification LED will flash once. If it flashes red the battery level is low, replace them with new ones.

You can adjust the intensity of the flash trigger by moving switch (B). Left for low, right for high. You can select the required setting depending on the quality of the fiber cables and the sensitivity of the strobes you are using. High intensity will reduce battery life.



- STEP 5:** Insert your flash trigger in your camera hot shoe using the bottom mount. Make sure it is pushed all the way in to align the LEDs with the bulkheads on the housing.
- STEP 7:** Push the optical cable bushing in their sockets in the optical bulkheads.

**NOTE:** *The optical flash trigger batteries should be able to fire strobes over 3,000 times. However, some CR 2450 cells have a very limited shelf life, so make sure to change your batteries if your flash trigger has not been used for a few months.*

*The optical flash trigger has a fast recycle time and will keep up with the 10-fps capability of the A7RIII, check your strobe's instruction manual to learn about its recycle time.*

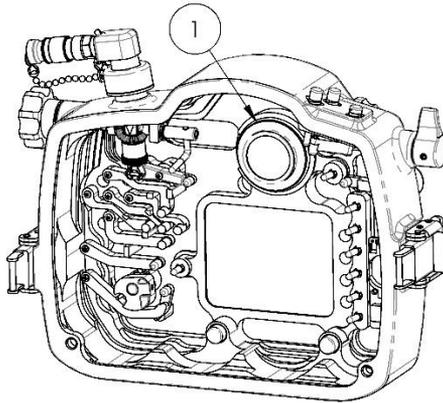
**WARNING:** If you are using SEA & SEA YS-D2 strobes with your slim flash trigger, you should use the SEA & SEA Fiber-Optic Cable II (using 613 fibers). Smaller optical fiber cable will not fire the strobes consistently.

## Aqua View finder

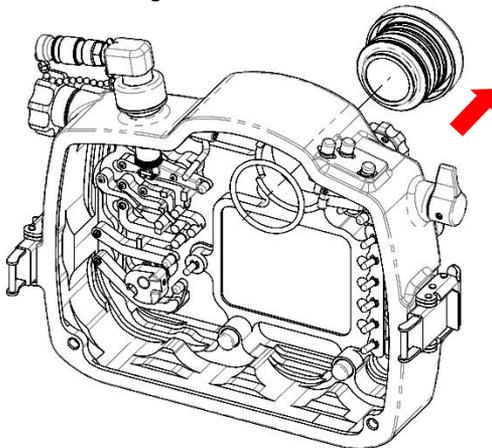
The A7RIII housing is compatible with both the 180° Aqua View finder (#20054) and the 45° Aqua View finder (#20059). To install your Aqua View finder, you will have to remove the standard eyepiece.

**To remove your standard eyepiece:**

**STEP 1:** Using an O-ring removal tool, remove the eyepiece retaining O-ring (#1). If you don't have a removal tool, the O-ring can also be pinched between you two fingers until it pulls away from the groove, and then easily removed.

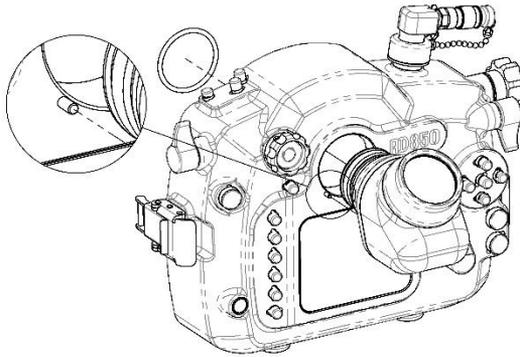


**STEP 2:** From inside the housing, slowly apply pressure to the viewfinder until it pops out from the back of the housing.

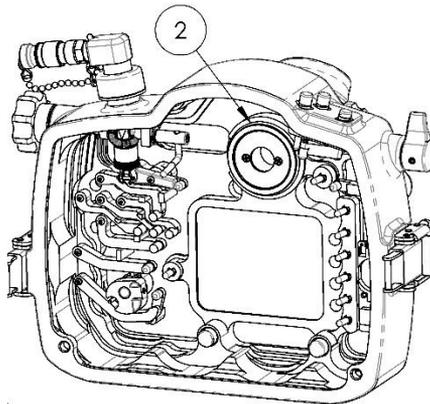


**To install your Aqua View finder:**

- STEP 1:** Remove the retention O-ring from the Aquaview finder and set aside.
- STEP 2:** Carefully verify that the O-ring and its groove are free from scratches or foreign matter. Lubricate the O-ring with a light coat of silicone grease. Also check that the O-ring mating surface on the housing is clean and free of any physical damage.
- STEP 3:** Insert your Aqua View finder inside your housing. Be sure to align the Aqua View finder with the aligning pin on the housing.



- STEP 4:** Now reinstall your Aqua View finder retaining O-ring (#2).



**WARNING:** It is highly recommended to perform a simple seal test without the camera after performing the installation. View following section for details.

## Care and maintenance

With basic care and a regular maintenance schedule, your Aquatica housing will provide years of enjoyment and satisfaction in producing spectacular underwater images. Please follow all undermentioned care and maintenance instructions.

### Housing components

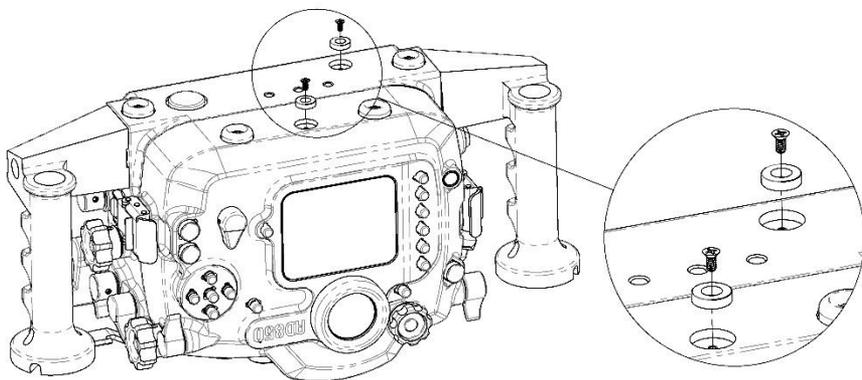
After every salt water dive, soak and/or rinse your housing system in fresh water. It should soak for a minimum of 30 minutes. Operate all the controls several times, while soaking, to dislodge any trapped salt water residues.

Periodically remove the hand grips for storage and transportation to avoid having the thread of the attachment bolts fuse on to the housing. Unscrew, clean and lubricate the bolts with a small amount of WD-40 or Zinc-based lubricant.

**WARNING:** Use WD-40 or any lubricant carefully, sparingly and only on metal to metal surfaces. WD-40 or other petroleum-based lubricants can damage the acrylic on the ports, the optical surfaces of a lens or O-rings.

### Sacrificial anodes

Two anodes are attached to the bottom parts of the housing to prevent galvanic corrosion due to electrolysis. As time goes and depending on use, they will deteriorate and need replacement. Contact your dealer to order replacement anodes (#19220).



## O-rings

When replacing the main seal O-ring, place the entire O-ring over the O-ring groove and start by pushing the O-ring in the corners. Work your way around the O-ring making sure it is snugly sitting in the groove. Avoid going solely in one direction as doing so will stretch the O-ring material and possibly prevent it from properly seating.

When working on your housing or port O-rings, please follow these instructions:

- ✦ Never use a sharp instrument when removing an O-ring as this may damage the sealing surface of the groove or the O-ring itself. A dedicated O-ring tool, a dull pointed object or the edge of a credit card usually works well.
- ✦ Once removed, the O-ring should be inspected for damage. Carefully check that it is free of nicks or cuts and that it retains its original round profile. O-rings that appear to be damaged should be immediately replaced with new ones.
- ✦ Rinse the O-ring with fresh water and dry it with a clean lint free cloth.
- ✦ Clean the O-ring groove (the channel where the O-ring sits) with a cotton swab. Make sure to remove any lint the cotton swab may leave behind.
- ✦ Wipe the matching sealing surface part of the housing with a clean lint-free cloth.
- ✦ Lubricate the O-ring with a thin layer of Aquatica O-ring lubricant (# 19213) until it appears to be smooth and shiny. **Do not over lubricate.** Use just enough lubricant so the O-ring will pull smoothly through your fingers. Excessive amounts of grease will only attract and trap dirt onto the O-ring.
- ✦ Confirm that the Port and extension ring O-rings are properly and evenly seated in their O-ring groove.
- ✦ To reinstall the clean and lubricated main O-ring of the housing:
  - ✦ Place the entire O-ring over the groove and start by pushing the O-ring in at each corner.
  - ✦ Push the O-ring at each side to distribute it evenly across the surface before finally working in the rest of the O-ring.
  - ✦ Never start at one end and work your way around the O-ring. This creates uneven tension on the O-ring which may cause the O-ring to stretch.

**WARNING:** When changing ports or O-rings, a simple seal test without the camera inside should be performed. Strapping a weight to the housing and lowering the unit to a depth of 30 to 50 feet of water for at least 10 minutes will assure you that you have a proper seat of the new port or O-ring. This test, **though time consuming and often considered unnecessary, may save your camera equipment from irreparable water damage.**

The internal O-rings of the housing are not user replaceable. While these O-rings are not as susceptible to damage as the main seal, rinsing the housing properly with fresh water to flush out salt crystals and sand residues will assure trouble free operation. Aquatica recommends yearly maintenance of the internal O-rings. Authorized service centers are offering this service with factory-approved procedures and replacement parts. You can check the closest service center to you on the Aquatica website.

**WARNING:** Only use the Aquatica O-ring lubricant (#19213). Petroleum-based lubricants, used by some manufacturers to lubricate their Silicone-made O-rings will cause the O-ring material to swell. This will cause difficult installation and will likely result in O-ring being damaged or pinched.

## Storage and transportation

Store and transport the housing in a sturdy, shock proof container and avoid travelling with the camera mounted inside the housing. In the event of an impact, especially on the external push buttons, the impact could potentially be transferred to the camera controls and damage them.



When travelling by air or in situation where atmospheric pressure changes are foreseen, leave the housing opened, or alternatively, remove the port and the eye piece. Doing so allows equalization of the air pressure inside the housing with ambient pressure. Failure to follow this recommendation may cause an internal pressure build up which could potentially force ports or acrylic windows to pop out or potentially unseat their O-ring seal.

## Warranty

### PLEASE READ CAREFULLY

#### One-year limited warranty

All Aquatica products are guaranteed against defects in material or workmanship for one (1) full year from the date of purchase for consumer use. These same products when used commercially will carry a 90-day warranty. No statutory warranty applies. Camera housings in Aquatica housings are **not covered** under this warranty and **any water damage sustained due to installation error or any other reason is not the responsibility of Aquatica**. Therefore, the appropriate insurance should be maintained by the user.

Warranty does not apply to replaceable seals or damages to impacts or abrasive surfaces. Warranty applies only to products purchased from authorized Aquatica dealers and does not extend beyond the original retail purchaser. Unauthorized modifications or repairs will automatically void this warranty. This applies to removal of serial numbers and Aquatica identification labels.

To obtain service during or after the warranty period you must notify Aquatica at +1 (514) 737-9481 and ship **by registered mail (insured) only**, enclosing your proof of purchase to:

*Aquatica Digital*  
*3025 De Baene*  
*Montreal (Quebec)*  
*H4S 1K8*

Mark clearly on your package "Canadian goods returned for repair".

Do not ship by any other means.  
Unauthorized packages will be refused.

YOUR SERIAL NUMBER \_\_\_\_\_