

# INSTRUCTION MANUAL

**Product #20091** 

- Thank you for purchasing your Aquatica AR5 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 CANON EOS-R5 camera. If not, please read your camera instruction manual before attempting to use the housing.
- The AQUATICA Pro Digital Housing is the result of a long and continuing relationship with the most demanding underwater photographers in the world. Each housings is handcrafted, quality checked and pressure tested to a 300 feet equivalent by a small group of specially trained individuals, each of whom takes the utmost pride and satisfaction in offering the best underwater camera housing in the world.
- The Aquatica Pro Digital Housing was designed for optimum technical and optical performance and to provide easy and efficient underwater access to essentials functions and controls of the Canon EOS-R5.
- Please visit the Aquatica Digital website for further information.

#### **AOUATICA PRODUCT NUMBERS**

20091-NK	Aquatica housing for CANON EOS-R5
2009 I-NK	Including dual Nikonos bulkheads
20091-OPT	Aquatica housing for CANON EOS-R5
20091-071	Including dual optical bulkheads
20091-KM	Aquatica housing for CANON EOS-R5
2009 I-KM	Including single Ikelite bulkheads
	Aquatica housing for CANON EOS-R5
20091-KTTL	Including Ikelite TTL Connector
20071-KIIL	*** Ikelite DL5 external converter required #46074. Purchased
	separately from Ikelite

NOTE: Shown housing illustrations may differ from your actual housing depending on the ordered version. General pictures are mostly showing without any lighting attachments.

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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**

	Housing body	6061-T6 Aluminium	
Construction	Surface treatment	Anodized + powder coated	
	Windows	Optical acrylic	
	Grip handles	Black PVC	
	Dimensions WxHxD (w/o grips)	9.50" x 7.10" x 5.96" (241mm x 180mm x 151mm)	
DI : 1	Width (w/ grips)	13.7" (348mm)	
Physical	Weight (w/o camera)	6.5 lb (2.94kg)	
	Buoyancy	Slightly negative	
	Depth rating	100 msw - 330 fsw	
Features	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:  Optical triggering Nikonos-style bulkhead Ikelite-style bulkhead	

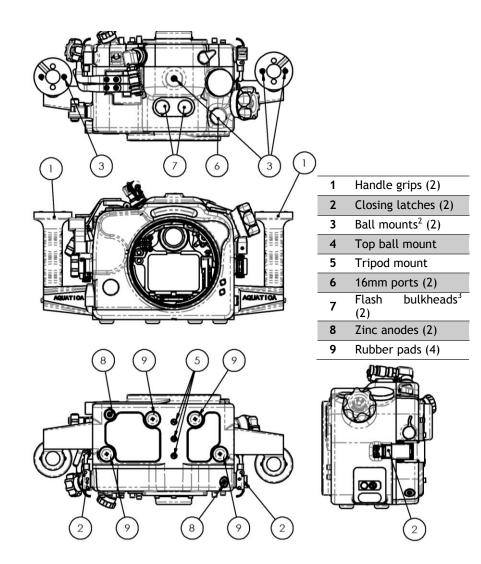
 $<sup>^{\</sup>mathrm{1}}$  Note that all of the AR5 flash triggering options  $\operatorname{\underline{are\ not}}$  TTL compatible.

### Package contents

- AR5 housing
- Handle grips (2) with screws (2)
- AR5 instruction manual
- Lens chart
- Spare housing seal O-ring
- CR 2450 coin cell battery (for Surveyor)
- Aquatica O-ring lubricant container
- Set of Allen keys
- Optical flash trigger (for 20091-OPT and 20091-OPT-VC kits)
  - CR 2450 coin cell batteries (2)
- Vacuum pump (for 20091-NK-VC, 20091-OPT-VC, 20091-KM-VC and 20091-KTTL-VC kits)

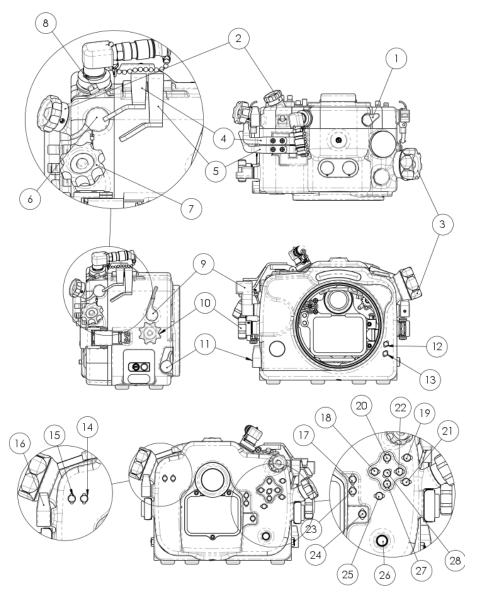
# **Housing schematics**

## Housing components



 $<sup>^2</sup>$  All mounts are using  $\mbox{\em 1}\!\!\!/_4\mbox{-20}$  UNC threads.  $^3$  Bulkheads Plugs shown.

# Housing Function



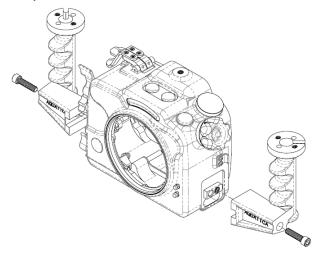
(See table on next page)

1	ON-OFF Lever	20	Multicontrol up
2	Quick Control Dial 2	21	AF Point Select Button
3	Zoom-Focus Wheel	22	Multicontrol Right
4	Movie Shooting Button	23	Info Button
5	M-FN mode Button	24	Set Button
6	AF-ON start Button	25	Quick Control Button
7	Quick Control Dial 1	26	Alarm LED window
8	Mode Button	27	Multicontrol Down
9	Main Dial	28	Multicontrol Center
10	Shutter Release Lever		
11	Port Release Lever		
12	RF Lens Release Button		
13	EF Lens Release Button		
14	Rate Button		
15	Menu Button		
16	Playback button		
17	Magnify/Reduce Button		
18	Multicontrol Left		
19	AE Lock Button		

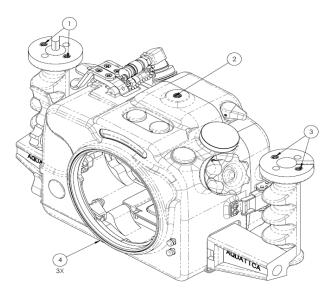
# Housing preparation

Follow these steps to prepare your AR5 housing for use:

STEP 1: Assemble your handle grips onto your housing using the provided screws (x2) and Allen key.



STEP 2: If you are adding any shoes, brackets or ball mounts onto your housing, mount them using the intended ½-20 UNC threaded holes. You can use the threaded holes on the handle grips (#1,#3), 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 28). 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.

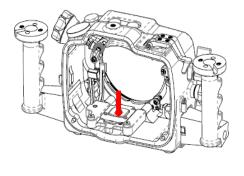
**WARNING:** For proper handling of O-rings, follow the detailed instructions outlined in the *Care and maintenance, O-rings* section (page 33).

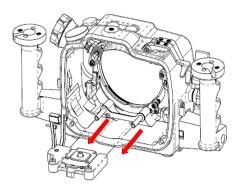
STEP 5: Insert the provided CR 2450 coin cell battery in the Surveyor alarm (rear half of housing) as described in the *Accessories*, *Surveyor sensor* section (page 22).

### Camera Installation

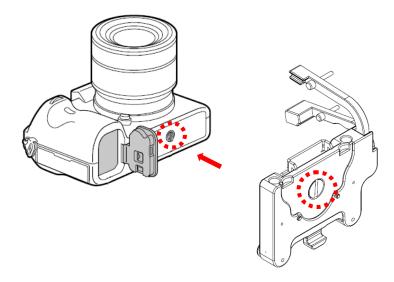
Follow these steps to prepare your Canon EOS R5 camera for use with your housing. It is also advisable before inserting the camera into the housing, in order to save valuable time underwater, to set your camera shooting preferences beforehand.

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



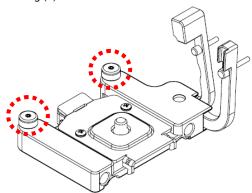


STEP 2: Install the camera on the saddle by aligning the positioning hole under the camera and screwing the bottom screw with either a flat screwdriver or a coin.



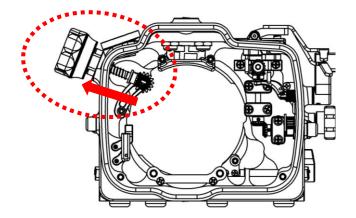
NOTE: If you are using an optical flash triggering, install your flash trigger on your camera by following the procedure outlined in the Accessories, Flash triggering section (page 27).

STEP 3: Make sure to align the camera stoppers (x2) with the LCD side of the camera when installing (2).



NOTE: Camera is not shown in this view.

STEP 4: 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 5: Slide the saddle and camera 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 For EF Lens

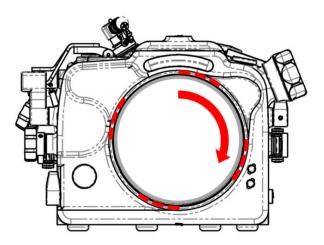
The AR5 housing is equipped with a EF adaptor extension ring for EF lens bayonet locking system that firmly attaches compatible ports and extensions.

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 33).

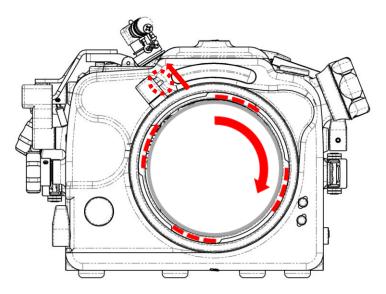
STEP 2: Place the housing on its back on a soft and steady surface.

STEP 3: Place the adaptor EF 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 EF adaptor 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. <u>Do not force it</u>. 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.
- STEP 7: Align the second extension ring or port with the EF adaptor extension ring's bayonet like done in step 3.
- STEP 8: Push with even force on both sides of the additional extension ring or port until you feel it snap into place. Make sure the bayonet is completely inside the housing.

STEP 9: Rotate the port clockwise until it stops. Lift the EF adaptor extension ring using the pin on top. Continue the clockwise rotation until the second extension ring or port can no longer be rotated.



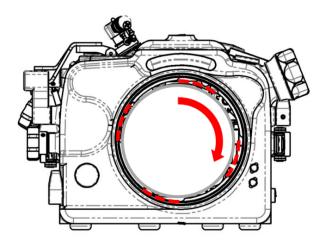
IMPORTANT: MAKE SURE THE EF ADAPTOR EXTENSION RING AND THE SECOND EXTENSION RING ARE BOTH ROTATED CLOCKWISE AT THEIR MAXIMUM POSITION FOR THE BEST ALIGNMENT OF THE DOME SHADES.

### Port Mounting For RF Lens

The AR5 housing is equipped with a bayonet locking system that firmly attaches compatible RF 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.
- STEP 2: Place the housing on its back on a soft and steady surface.

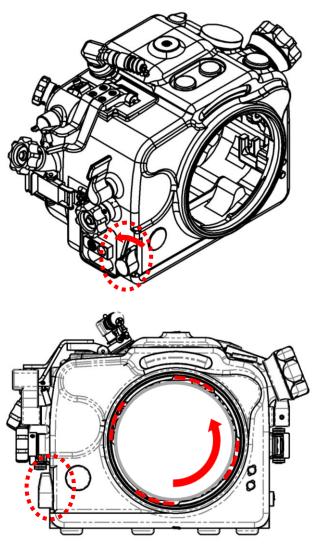
STEP 3: Place the port or extension ring inside the housing bayonet. Align the bayonet using the four alignment notches in the housing.



- 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. <u>Do not force it</u>. 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.

# Port Removal

STEP 1: While pressing the port release lever, rotate the port or extension ring counterclockwise until it stops.



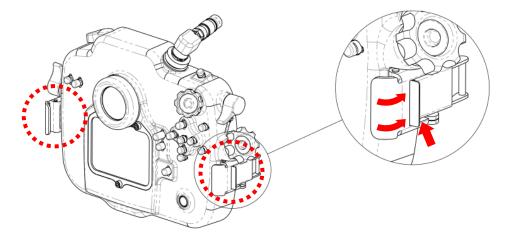
STEP 2: Carefully pull the port or extension ring out of the housing.

### **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 Oring mating surface on the housing is clean and free of any physical damage.

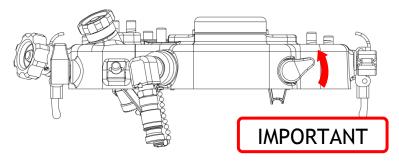
WARNING: For proper handling of O-rings, follow the detailed instructions outlined in the Care and maintenance, O-rings section (page 33).

- 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 22) 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 portion 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.

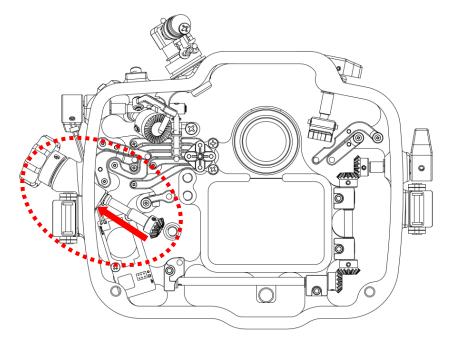


STEP 5: Pull the latches out so they don't interfere with the front portion hooks upon closing.

STEP 6: Set the camera to the OFF position and align the ON-OFF lever in the OFF position as well.

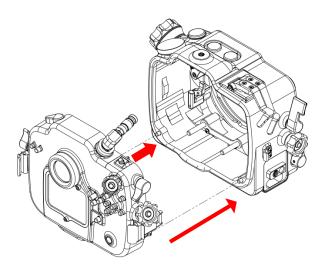


STEP 7: Pull the Quick Control Dial 1 towards the outside of the housing. <u>Do not apply excessive force</u>. Stop pulling when the stopper will not allow any more pulling.

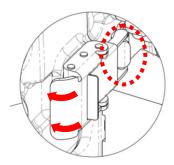


STEP 6: Align the rear portion of the housing with the front one using the two guiding pins.

STEP 7: Close the two housings shells together.



**STEP 8:** Once both portions of the housing are pressed against each other, rotate latch towards the front until it catches the front hook, and then pull back until it locks into position. Repeat for second latch.



**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.

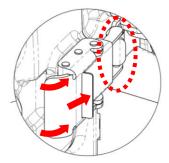
STEP 10: Verify that both latches are locked by trying to pull them out without pressing the locking tab. If properly locked, you should not be able to open them by simply pulling them out.

# **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 portion.

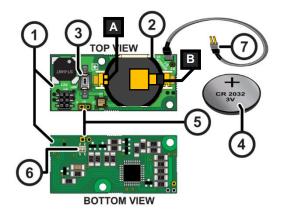
### **Accessories**

#### Surveyor sensor

Your AR5 housing comes standard with the Surveyor moisture alarm. This sensor device has two distinct purposes, a moisture detection circuitry and an ambient pressure sensor circuitry.

NOTE:

Once a battery is installed, the moisture detector function of the Surveyor alarm will remain on standby and does not need to be activated. If not being used for a prolonged period of time, it is recommended to remove the battery from the sensor circuit to avoid unnecessary drain.



Sensor circuit
Battery holder
Vacuum power switch
CR 2032 3V battery
External LED point
Integrated warning LED
Probe wire harness

#### To insert your 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 your 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.

**WARNING:** If you are only using the moisture alarm function without the vacuum, 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.

Standby mode	LED is off System is on standby	0000
Water detected	Red LED flashing with audible alarm Water is making contact with probe	(1))

Moisture alarm 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 its housing sealing integrity before and during his dive.

The next table shows the vacuum sensor mode LED code. See Accessories, Vacuum pump section (page 24) for the required procedure to obtain a vacuum using the pump.

Standby mode  Vacuum ready  Vacuum ready  Vacuum ready  Vellow LED flashing  System is ready to be depressurized  Yellow LED flashing	0000
System is ready to be depressurized	
Yellow LFD flashing	
40-100% Vacuum  Building vacuum inside housing	
100% Vacuum Green LED solid Required level of vacuum is achieved	0000
Over- Green LED flashing depressurization <sup>4</sup> System is getting over depressurized	
Vacuum standby  Green LED flashes once every 4 sec Housing system is holding vacuum	0000
Loosing vacuum <sup>5</sup> Yellow LED flashing 40-60% Housing is losing vacuum over time	
Lost vacuum Red LED flashing w/ audible alarm <sup>6</sup> 0-40% Housing has lost vacuum	(1)
Water detected Red LED flashing with audible alarm Water is making contact with probe	(1)

Vacuum sensor mode LED code:

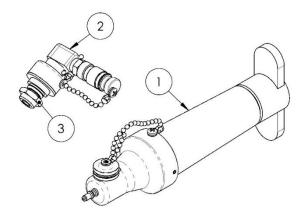
Accessories

Everything is OK, just stop pumping vacuum.
 Indication of a slow leak behavior.

<sup>&</sup>lt;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:

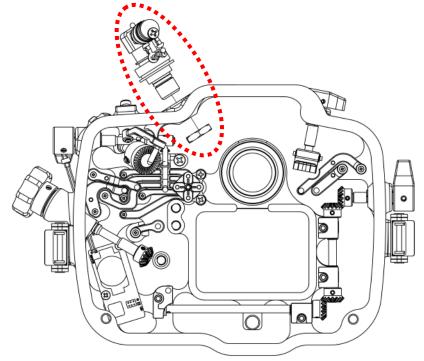


1	Vacuum pump
2	Pressure valve
3	Retaining nut
*	Aquatica lubricant

If your pump was not factory installed or bought separately, you will need to install the pressure valve bulkhead on your housing in the rear  $\frac{1}{2}$ " bulkhead port as shown in the next page.

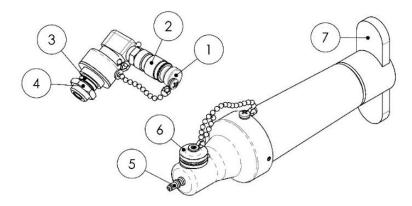
#### To install your valve:

- 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 33 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.

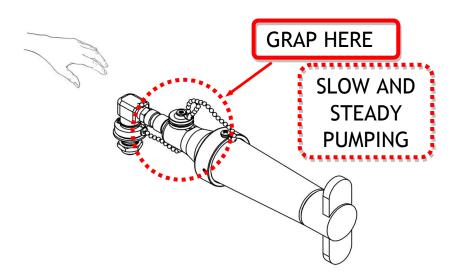


#### To use your vacuum monitoring system:

- 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 22). The Surveyor green LED should be flashing rapidly upon activation.
- STEP 2: Close your housing using procedure outlined in the section Housing Closing (page 18).



- STEP 3: Remove the valve plug (#1) by sliding the guick-disconnect collar (#2).
- STEP 4: Insert the pump stem (#5) in the pressure valve and release the quick disconnect collar (#2).
- STEP 5: Make sure the pressure release plug (#6) is screwed all the way in (clockwise).
- STEP 6: Grip the vacuum and the pump at the connection of both parts firmly. Keep the pump aligned with the vacuum. DO NOT BEND OR APPLY FORCES ON THE PUMP FROM DIFFERENT DIRECTIONS, THIS COULD LEAD THE STEM TO BREAK.



STEP 8: Build vacuum inside your housing by pumping the handle (#7). Pump the handle at a constant and steady rate (there is no need for excessive force or speed). 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.

**WARNING:** Be careful <u>not to over-depressurize</u> the housing. This will trigger the alarm and require the sensor to be reset.

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

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.

NOTE: Once your housing is under vacuum, it is important to pressurize it back to ambient pressure before attempting to remove your port or open the housing. To pressurize it back, 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 at ambient pressure.

### Flash triggering

There are three flash options compatible with the AR5 housing:

- Optical triggering (#20091-OPT and #20091-OPT-VC)
- Nikonos-style bulkhead (#20091-NK and #20091-NK-VC)
- *Ikelite*-style bulkhead (#20091-KM and #20091-KM-VC)

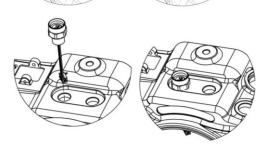
NOTE: Note that not all of the offered flash triggering options on the AR5 housing are TTL compatible. An Ikelite DL5 external converter (#46074) is required for TTL functionality. Purchased separately from Ikelite

For Nikonos and Ikelite style bulkheads, simply insert the velcroed board inside your camera hot-shoe. On top of your housing, you will find two Nikonos or Ikelite type bulkhead connectors, the main and secondary connectors are wired through a switch board that gives the user the option

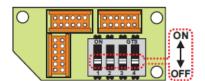
of flash triggering.

Nikonos (#20091-NK and #20091-NK-VC)

Ikelite (#20091-KT and #20091-KT-VC)



Using the tip of a pen push the switches 1, 2, 3 & 4 to the ON (up) position, this will activate the connections on your main 6 pins bulkhead connector allowing eTTL communication between the camera and the housed flash or eTTL converter.



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

STEP 1: Remove the battery trays from the flash trigger



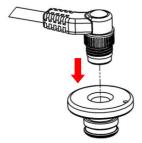
STEP 2: Insert the provided CR 2045-coin cell batteries inside the 2 battery trays (positive side up).

**WARNING:** Only use 2 x CR 2450-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. The front LEDs and the rear LED will flash once.

STEP 4: 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 5: Upon the flash trigger being inserted into the hot shoe, the rear LED will flash once. If it flashes red the battery level is low, replace them with new ones. If it flashes green, the battery levels are good.



STEP 7: Push the optical cable bushing in their sockets in the optical bulkheads.

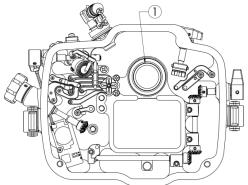
NOTE: The slim flash trigger battery should be able to fire strobes at least 15,000+ times. However, some CR 2450 cells have a very limited shelf life, so make sure to change your batteries if your flash trigger has not been used for a few months.

### Aqua View finder

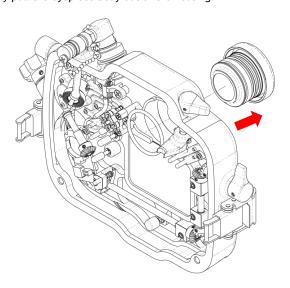
The AR5 housing is compatible with both the 180° Aqua View finder (#20054) and the 45° Aqua View finder (#20059). To install your Aqua View finder, you will have to remove the standard eyepiece.

#### 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 using only your fingers.

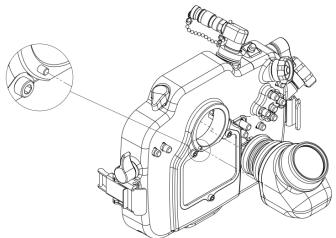


STEP 2: Carefully pull the eyepiece body out of the housing.

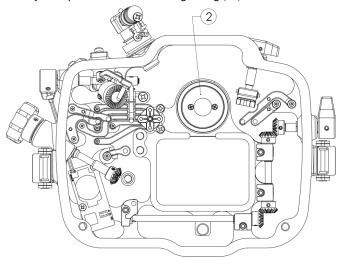


#### To install your Aqua View finder:

- STEP 1: 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 2: Insert your Aqua View finder inside your housing. Be sure to align the Aqua View finder with the aligning pin on the housing.



STEP 3: Install your Agua 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**

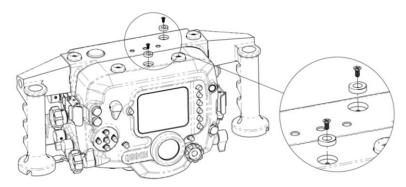
After every salt water dive, soak and/or rinse your housing system in fresh water. It should soak for a minimum of 30 minutes. Operate all the controls several times, while soaking, to dislodge any trapped salt water residues.

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 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. <u>Do not over lubricate</u>. 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 housed in Aquatica housings are <u>not covered</u> under this warranty and <u>any water damage sustained due to installation error or any other reason is not the responsibility of Aquatica</u>. 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