



200DL Underwater Housing for Canon EOS 5D Mark III, 5D Mark IV, 5DS, 5DS R DSLR

Product Number 71702

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Product Registration

Please register your product at ikelite.com within 15 days of purchase. Our product registration database is the best way for us to contact you in the event of a product update.

About this Product

Thank you for your purchase of Ikelite equipment. Please read this instruction manual completely before attempting to operate or dive with this product. Please visit ikelite.com to register your product to receive information on any updates or notices pertaining to your equipment.

Included in the Box

- Housing
- Main O-ring # 0132.61
- Port O-ring # 0132.45
- Zoom Gear Retainer # 75900
- Tool for Zoom Gear Retainer # 0945.06
- Body Cap # 0200.92
- Waterproof Bulkhead Cap # 9104.5
- Silicone Lubricant # 0184.2
- Base with Left-Hand Quick Release Handle # 4077.67

Important Notices

- » **This housing requires a compatible Lens Port for waterproof operation. The housing is not waterproof without a Lens Port attached.**
- » **A bulkhead cap or sync cord must be attached to the housing for waterproof operation. Never submerge the housing without either a sync cord or waterproof bulkhead cap attached.**
- » **Never leave a housing in a rinse tank, even if it is the only system in the tank. Most catastrophic floods happen when the user walks away from a housing while it is in the rinse tank.**
- » **To prevent salt build-up and sticking controls, turn the camera off and submerge the sealed housing in clean, freshwater. Operate the controls several times each while underwater to flush out any residue.**
- » **Do not use alcohol, cleaning agents, spray lubricants, Rain-X, or other solvents on the housing or lens port. Use of an incompatible chemical compound can damage the plastic and o-rings, and may result in leaking.**
- » **This housing is only compatible with the Canon EOS 5D Mark III, 5D Mark IV, 5DS, 5DS R DSLR as shipped by the manufacturer. Unless otherwise noted, this housing does not accommodate the use of add-on grips, battery grips, eyepieces, LCD covers, or other accessories.**

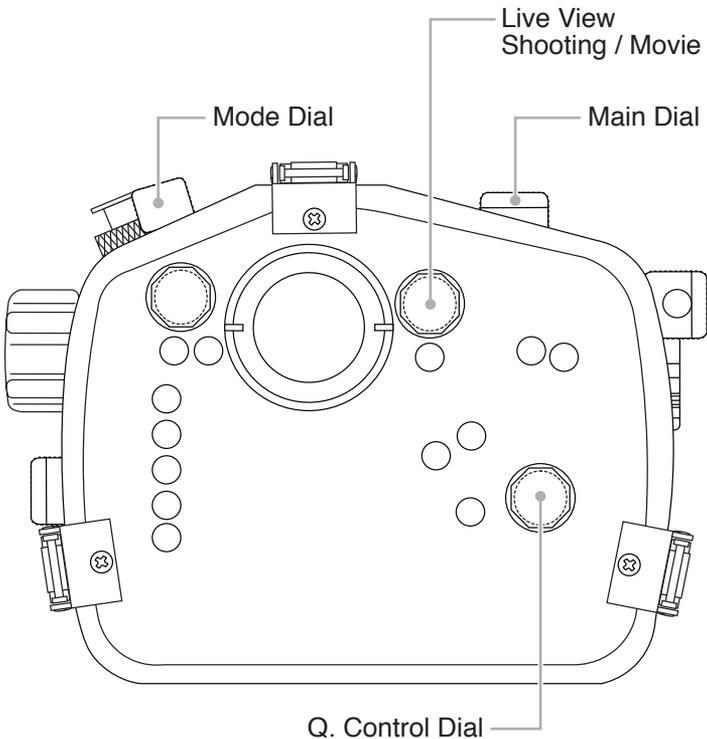
COMPATIBILITY NOTICE

This housing is pre-configured for operation with the Canon EOS 5D Mark IV camera. If you are using one of the following cameras you will need to make adjustments to four controls prior to use:

- Canon EOS 5D Mark III
- Canon EOS 5DS
- Canon EOS 5DS R

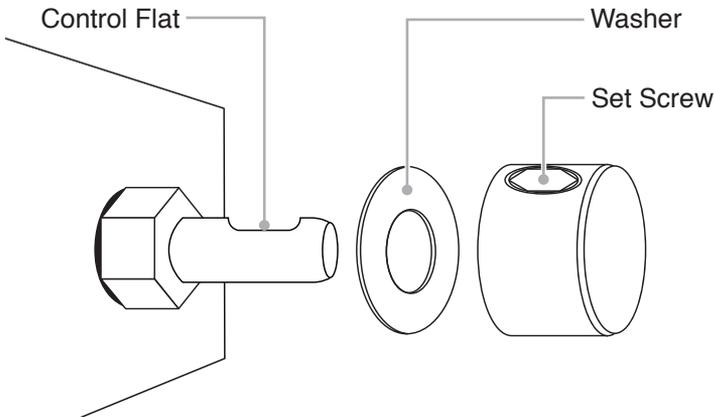
Controls Requiring Adjustment

- Mode Dial
- Live View Shooting / Movie
- Main Dial
- Q. Control Dial



Adjusting Your Controls

1. Each knob is attached by a set screw threaded into the side of the knob. Remove the knob using the included 1/8" hex key. Do not remove the control shaft from the housing.
2. Remove one nylon washer from the control shaft.
3. Align the knob set screw with the flat on the side of the control shaft.



4. Re-attach the knob using a 1/8" hex key.
5. Repeat for all four controls requiring adjustment.
6. Install your camera and check all controls.
7. Store the extra washers in a sealed plastic bag with your spare parts.

Re-Adjusting for the Canon EOS 5D Mark IV

This procedure is reversible.

If you choose to use the Canon EOS 5D Mark IV in the future, re-install the one washer underneath each of the four control knobs.

If you have any questions about this procedure please contact us by email at ikelite@ikelite.com.

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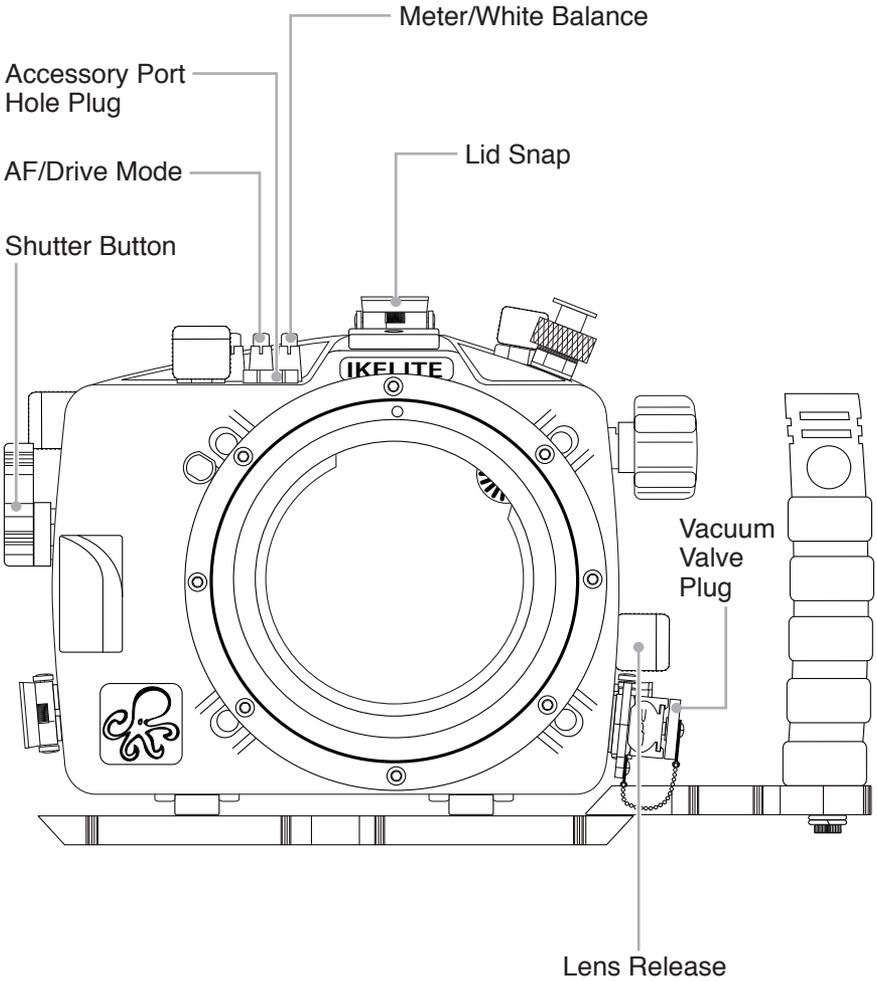
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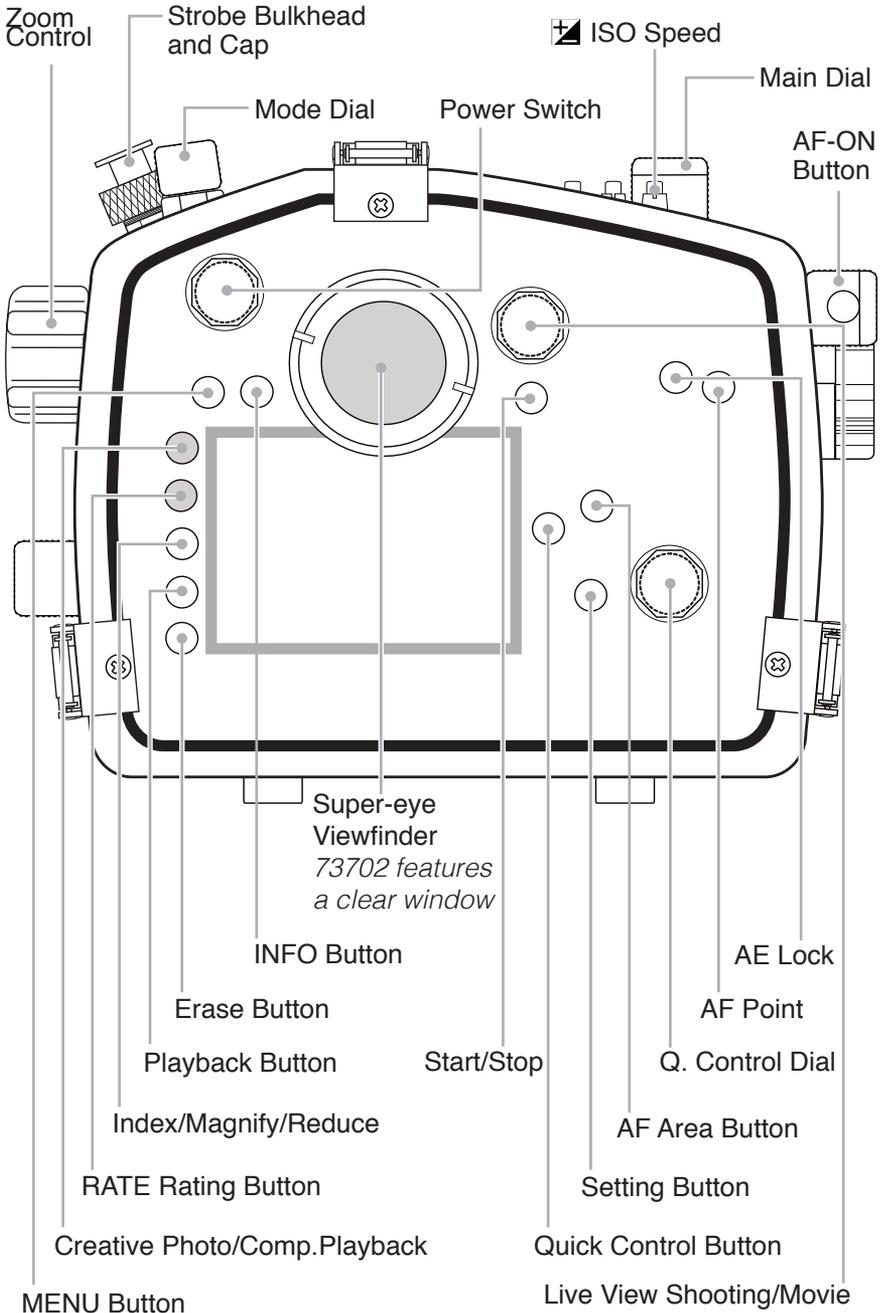
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Getting to Know Your Housing



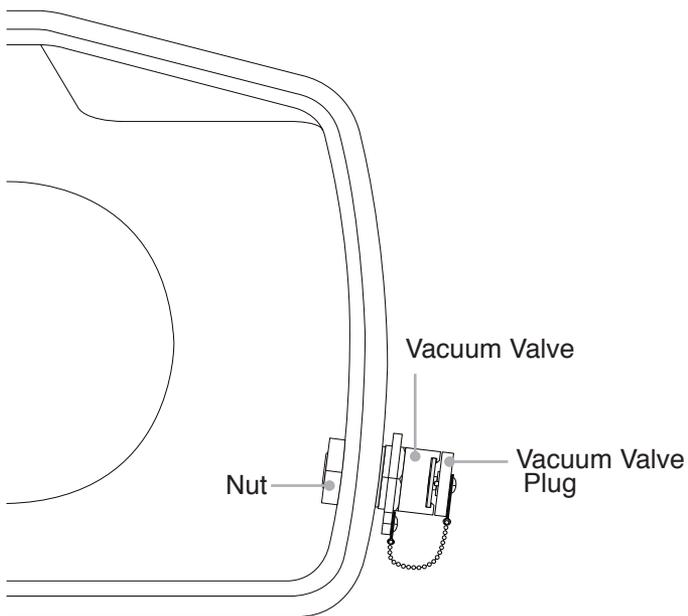
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Vacuum Valve

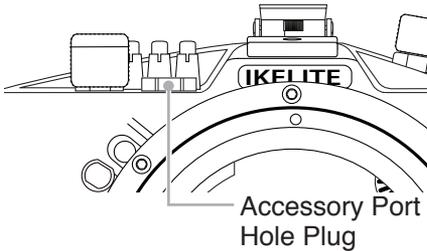
Your housing features a Vacuum Valve to check watertightness before a dive. Use of the vacuum valve requires a pump, sold separately.

- » **DO NOT remove Vacuum Valve Plug unless you are plugging in a Vacuum Pump.**
- » **DO NOT submerge the housing without the vacuum valve plug installed. The housing will NOT be waterproof without the vacuum valve plug installed.**



Accessory Port

Your housing features one 1/2-20 threaded Accessory Port which may be used for attachment of factory optional or aftermarket housing accessories. Visit ikelite.com for an updated list of factory optional accessories



Installing an Accessory via the Accessory Port

1. Remove the Hole Plug using an 11/16" open end wrench.
2. Check the accessory fitting o-ring sealing area. Check o-ring and housing o-ring sealing area. All should be clean and free of hair, sand, or other debris.
3. Lightly lubricate o-ring with Ikelite lubricant. Use ONLY Ikelite lubricant. Other manufacturer lubricants can cause the o-ring to swell.
4. Carefully screw in and tighten accessory fitting. The accessory port features a 1/2-20 threaded hole. Make sure your fitting is the same thread pattern. DO NOT cross-thread. DO NOT overtighten.
5. After installing an accessory, pressure test the housing by diving without a camera inside.

⚠ NOTICE: Your Ikelite housing warranty DOES NOT extend to cover the attachment of aftermarket housing accessories by 3rd parties. Warranty DOES cover factory optional accessories attached by certified Ikelite service technicians.

» **Do not remove the Accessory Port Hole Plug unless you are installing a compatible accessory.**

Setting Up Your Camera

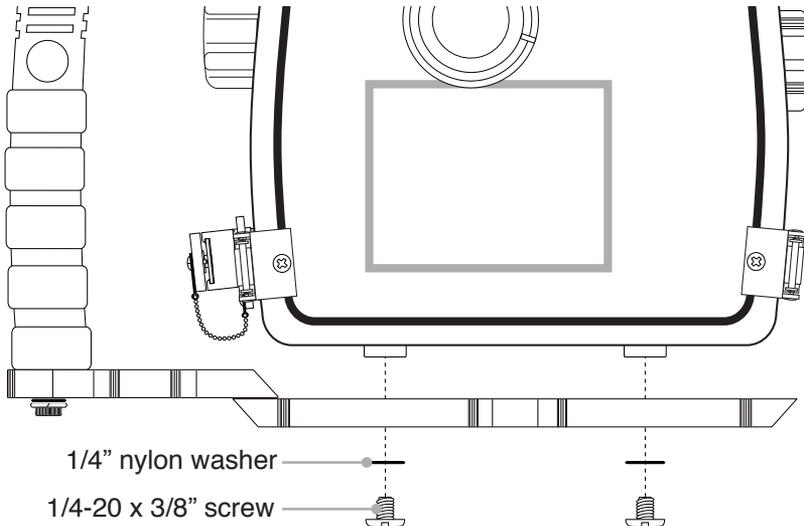
Pre-Installation Checklist

1. Insert a fully charged camera battery.
2. Insert a properly formatted memory card.
3. Set Mode Dial to “M.” Set shutter speed to 1/60th second or 1/125th second for fast moving subjects. Set aperture to F8 for general photography or F22 for macro photography (close-ups). Adjust settings as needed for each shooting situation.
4. When using an external flash, set External Speedlight control to “Flash firing - Enable.”

Setting Up Your Housing

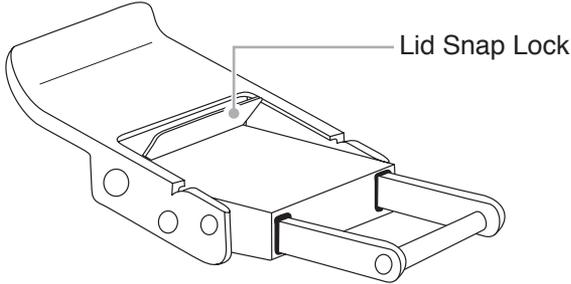
Attaching the Base with Quick Release Handle

Using a flat head screwdriver, attach the Tray and Handle to your housing with the two 1/4” nylon washers and 1/4-20 x 3/8” screws.



Opening the Housing

1. Lid snaps are designed to provide enough force to compress the o-ring for a proper seal. Keep firm pressure against the lid snap while lifting it away.

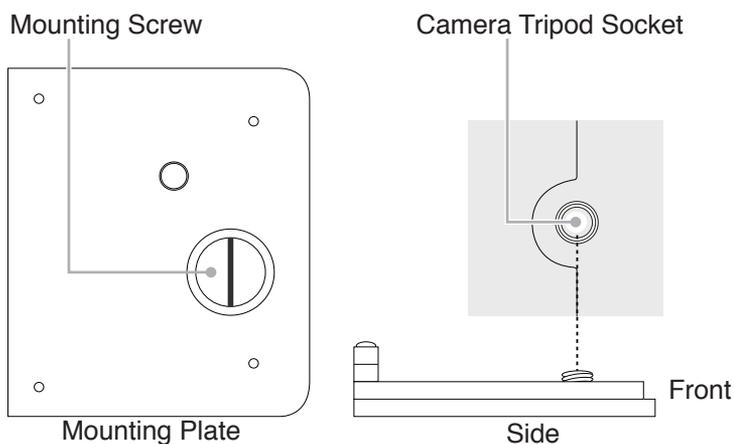


2. Repeat with remaining lid snaps.
3. Remove the housing back.

Inserting the Camera

1. Remove housing body cap.
2. Remove any lanyard or neck strap which may be attached to the camera.
3. Check to see whether the camera's lens will fit through the port opening of the housing. If not, the lens will need to be removed from the camera body and re-attached AFTER the camera body is installed in the housing.
4. Remove the camera mounting plate from the housing.

5. Line the Mounting Screw up with the Camera Tripod Socket. Use a coin or flat head screwdriver to tighten the mounting plate to the camera.



6. Pull out on the housing control knobs to move them out of the way.
7. Insert the mounting plate into the slot on the inside bottom of the housing. Push the camera all of the way forward until the back of the mounting plate is flush with the back of the housing mount.

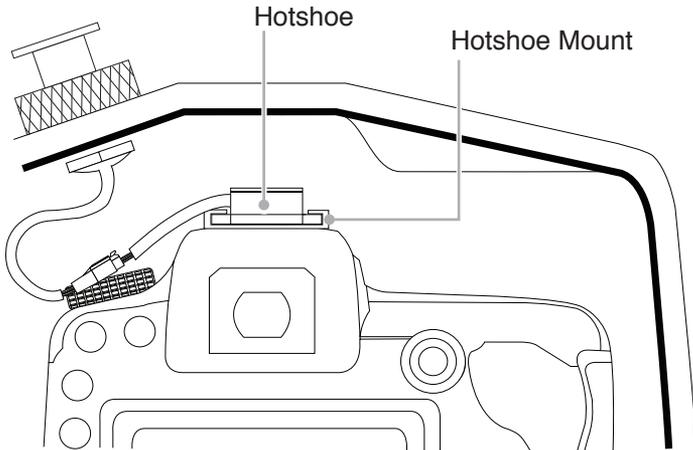
Attaching the Hotshoe

Your Ikelite housing features a factory installed Hotshoe connector which allows manual flash with Ikelite and non-Ikelite strobes which feature an electrical bulkhead connection for a sync cord.

The standard Hotshoe provides manual flash exposure, meaning you must set the power level of your external strobe manually. An “optional” TTL conversion circuit is available; see pages 20-21.

1. Orient the Hotshoe with the arrow on top pointing towards the front of the camera.
2. Slide Hotshoe into camera Hotshoe Mount until it stops.

- » **Hotshoe must be all the way forward in the camera mount to ensure a good electrical connection.**



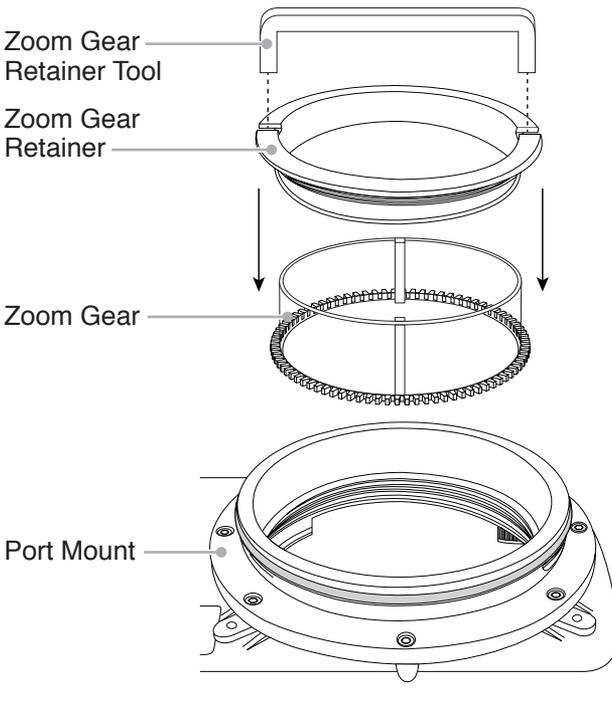
Closing the Housing

1. Make sure the o-ring is clean and in its proper location on the back of the housing. The main housing o-ring does not require lubricant to make a seal.
2. Place the back onto the housing front.
3. Make sure no controls or wires are interfering with the o-ring or the back of the housing.
4. Place each lid snap into the corresponding hook on the housing back.
5. Push the lid snaps toward the housing until they are flat against the housing and the lock has engaged. Close opposing lid snaps at the same time.

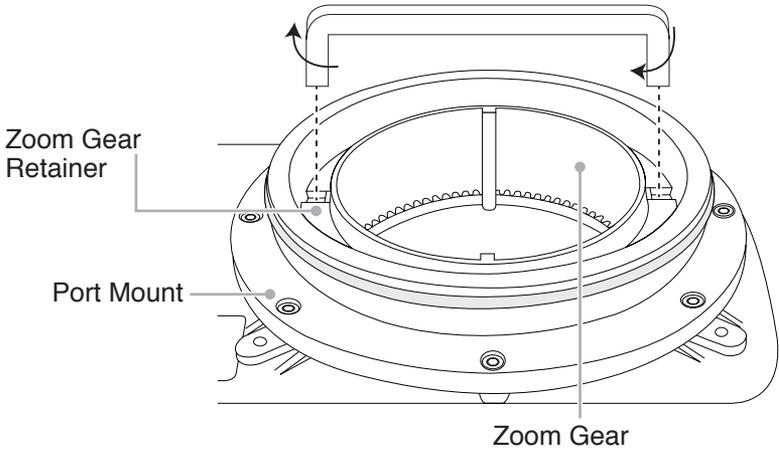
6. Check the o-ring seal. The o-ring should form a uniform, solid line around the back of the housing. There will be a small, even gap around the housing between the housing back and the housing front.
7. Check control functions.

Installing an Optional Zoom Gear (not included with housing)

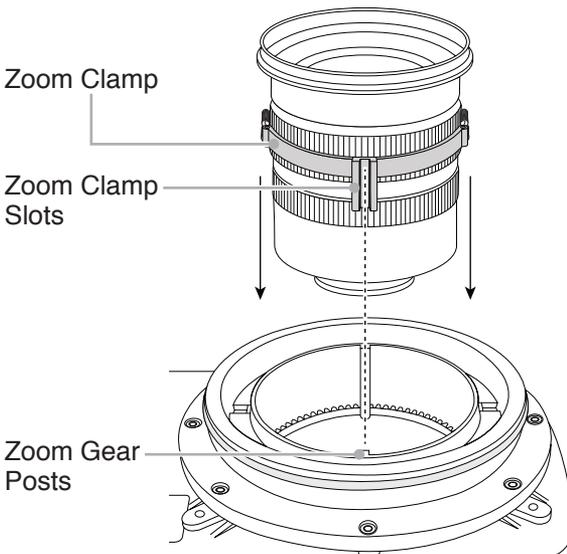
1. Lay housing on its back and remove camera lens by rotating the housing lens release control, see diagram, **page 7**.
2. Remove the Zoom Gear Retainer using the Zoom Gear Retainer Tool.
3. Place Zoom Gear into the Port Mount hole opening with the gear teeth facing the housing.



- 4.** Replace and tighten the Zoom Gear Retainer using the Zoom Gear Retainer Tool. Tighten clockwise so Retainer is snug. DO NOT overtighten.

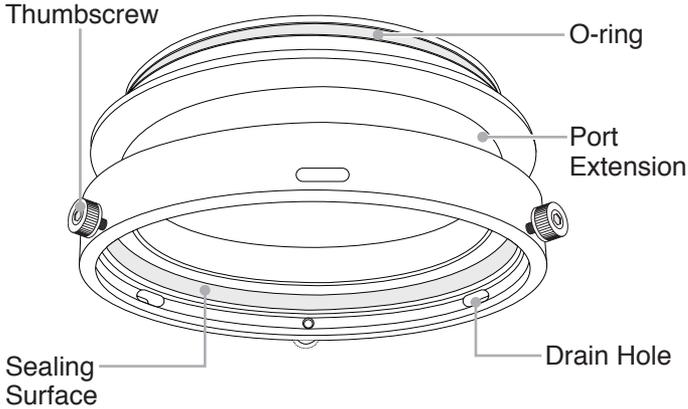


- 5.** Attach Zoom Clamp to Lens Zoom Ring.
- 6.** Line up Zoom Clamp Slots with Zoom Gear Posts and slide lens into the housing opening.
- 7.** Bayonet lens into camera and test zoom function.

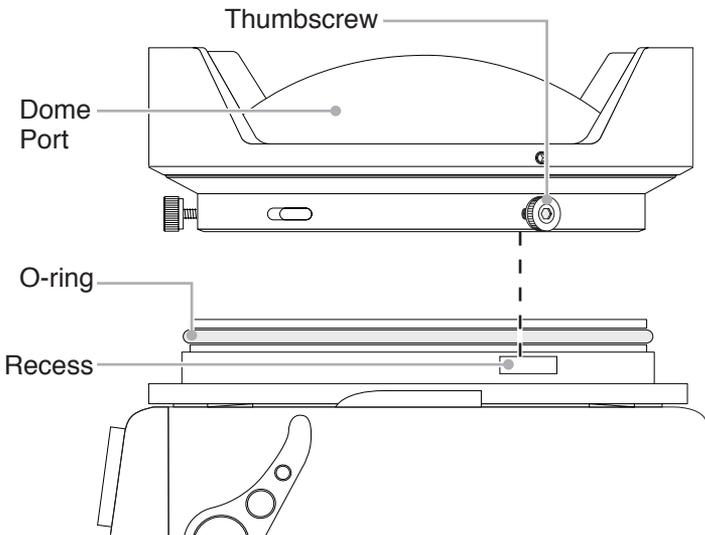


Attaching the Lens Port or Port Extension

1. Loosen each of the three Thumbscrews so at least 5 threads are visible. The Thumbscrew should not protrude into the inside of the port or extension.



2. Make sure the O-ring and Sealing Surface are clean and free of lint, dirt, or debris.
3. Lightly lubricate O-ring using ONLY Ikelite lubricant. Non-Ikelite lubricant can cause the o-ring to swell and not seal properly.



4. Line up Thumbscrews with Recesses and firmly press components together until they are flush around the circumference.
5. Tighten Thumbscrews until they are flush. DO NOT overtighten.
6. Submerge the completely assembled housing in a bathtub or clean camera rinse tank and visually confirm there are no signs of water intrusion. If water does appear to be entering the housing, point the port downward and remove the housing from the water.

Final Check

1. Re-check the back o-ring seal. The seal should form an even, solid line around the back of the housing.
2. Turn on the camera and check all control functions.
3. Make sure that the camera can obtain focus and take a photo. This will not be possible when using a +4 diopter (close-up lens) until you are underwater.
Adding a +4 diopter to the end of your lens is not normally necessary unless your lens has a minimum focusing distance of 12" or GREATER and you are using a dome port. Go to ikelite.com for additional information about +4 diopter use.
4. Check battery life and available storage space on your memory card.
5. Submerge the housing in a fresh water tank dedicated to underwater photography equipment. Visually confirm that there are no signs of water intrusion. One sign of water intrusion is a steady stream of bubbles coming from one of the housing seals.

Entering the Water

1. Before entering the water, turn the camera on and operate each of the housing controls to get a feel for using the camera in the housing.

2. If possible, we recommend entering the water without your housing to ensure you are comfortable and your life-saving equipment is in working order. Once you are stable, have someone pass your camera housing to you.
3. Submerge the housing at the surface of the water and visually confirm that there are no signs of water intrusion or a steady stream of bubbles coming from one of the housing seals. If water does appear to be entering the housing, point the lens port downward and return the housing to the surface as quickly as possible. Please observe all necessary safety precautions. NEVER ascend faster than accepted safety limits.
4. Use your hand to gently flush away any small bubbles that may be on the face of the lens port. Bubbles will produce soft focus spots in your photo or video.

Shooting Under Water

- » **It is important to respect all living creatures underwater, including people, marine life, and coral. While we encourage people to get close to their subjects when taking a photograph, we recommend they not touch, lie on, or in any way disturb the things they find underwater.**
1. When using ONLY the optical viewfinder, push the “info” button to display or change current settings. This will give you an instant glance at the camera settings on the LCD screen and allow quick adjustments.
 2. Get as close as possible to your subject. For the best results, only photograph subjects that are less than 6’ (1.8m) away.
 3. Be careful not to stir up sandy or silty environments.
 4. Photograph subjects straight on or up at a slight angle.

5. If you error in exposure, it is better to have the image slightly underexposed rather than overexposed. An overexposed image is missing color information which cannot be adjusted in a photo processing program. A slightly underexposed image has color information that can be adjusted.

Setting Up An External Strobe

We recommend attaching an external strobe for the optimal color and clarity in a wide variety of photographic situations, including daylight photography. This housing provides a direct electrical connection to the camera's external flash hotshoe. An external strobe may be triggered via electrical sync cord.

About Sync Cords

Attaching a strobe via electrical sync cord provides faster strobe recycle times as compared to a fiber optic connection, and prolongs camera battery life.

Strobes from IKELITE, SEA&SEA, INON, and Nikonos must be used in manual power modes when connected via electrical sync cord.

- » **To connect two strobes to the camera, you must use a dual sync cord.**
- » **A second slave strobe may be triggered optically off of a primary strobe connected by sync cord.**

TTL Strobe Exposure

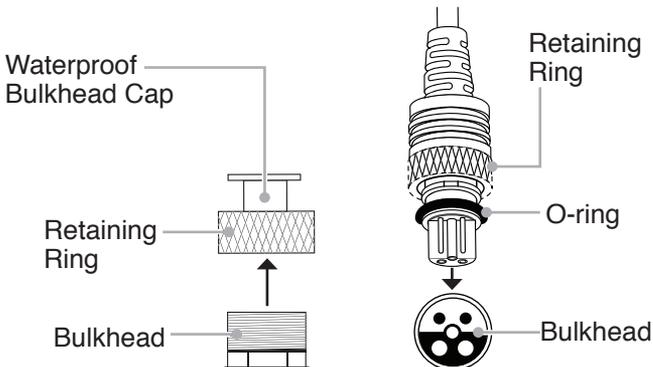
Automatic TTL exposure is available with compatible Ikelite DS strobes and optional TTL conversion circuitry. When a compatible Ikelite DS-series strobe is attached via sync cord with the optional TTL circuitry, the strobe communicates directly with the camera to trigger the strobe and adjust its power for perfect exposure. For TTL exposure you will need:

- CT1K Canon TTL Kit # 46070
 - Sync Cord # 4103.51 (single) or 4103.52 (dual)
 - Compatible Ikelite DS strobe(s)
- » **SEA&SEA, INON, Nikonos, and Ikelite non-DS strobes are not capable of powering or interacting with the Canon TTL Converter. These strobes may be attached via sync cord and used in manual strobe power settings.**

Attaching a Sync Cord

» **A bulkhead cap or sync cord must be attached to the housing for waterproof operation. Never submerge the housing without either a sync cord or waterproof bulkhead cap attached.**

1. Remove the bulkhead cap.
2. Lightly lubricate the sync cord o-rings. We recommend using only Ikelite silicone lubricant to eliminate the possibility of swelling due to incompatible compounds.
3. Line up the pins and receptacles and insert the sync cord plug into the housing bulkhead.



4. Rotate the knurled retaining ring until snug on the housing bulkhead. Do not use pliers or tools to tighten the retaining ring.

5. Attach the other end of the sync cord to the bulkhead on your strobe.
6. If using an Ikelite strobe, set the strobe to TTL. If using a non-Ikelite strobe, set the strobe to manual flash and select a manual power setting.
7. Turn on the strobe(s).
8. Turn on the camera.
9. Take a test photo to ensure that your strobe(s) are functioning properly.

Constant-On Video Lighting

A bright constant-on video light can be used instead of or in addition to a flash. A constant-on light is not as bright as a strobe flash. Constant-on lights do provide added versatility because they can be used for focus assist and for improved colors when shooting video.

Maintenance

Post-Dive

1. Rinse the housing in fresh water. Rotate the housing controls and press each button while submerged in fresh water to flush out any salt or debris to ensure smooth operation on future dives.
2. NEVER leave your housing in a fresh water rinse tank, even if it is the only system in the tank. Collisions with another person's gear can cause scratches or damage to your equipment. Accidental floods occur most often in the rinse tank.
3. Store the housing in a shaded place where it is protected from impact or overheating. If no shade is available, we recommend covering the housing with a towel or cloth.
4. Check the memory card capacity and battery life of your camera and strobe(s). Recharge as necessary.

5. Always re-check o-ring seals after opening the housing or removing the lens port.

Lens Port

Treat the surface of the lens port like a camera lens. After use, rinse and gently dry the outside lens port to avoid water spotting. To clean, use a mild soap solution or lens cleaner.

- » **Do not rinse the inside of the Port.**
- » **Never use alcohol or window cleaner on the Lens Port.**

Storage

Your Ikelite Digital Housing should be given the same care and attention as your other photographic equipment. In addition to normal maintenance, we recommend that the housing be returned to Ikelite periodically to be checked and pressure tested.

1. Clean the housing and controls thoroughly prior to storage.
2. Remove the back and port o-rings. Lightly lubricate each o-ring until it appears shiny. Place in a small re-sealable plastic bag inside of the housing.
3. Leave the lid snaps open to release pressure on the lid snap springs.
4. Disassemble and thoroughly rinse the Base with Quick Release Handle(s) prior to storage.
5. Store the housing in a cool, dry place away from direct sunlight and chemicals.
6. Before using the housing, check the tightness of the set screw in each control knob. Check each control gland to make sure they are snug. There is a slight chance that either could vibrate loose during travel.

- » **Do not leave the camera and housing in direct sunlight for prolonged periods. Heat may damage the camera.**
- » **Do not ship the camera in the housing.**

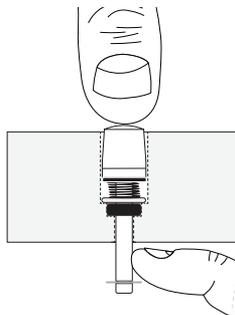
Lubricant

- » **Use ONLY Ikelite silicone lubricant. Other types of lubricant may cause swelling of o-rings or cracking of plastic components.**
- » **Lubricant is not a sealant; it is used to reduce friction. Excessive lubricant can collect sand, hair or debris which may interfere with proper sealing.**
- » **Never use spray lubricants as the propellant ingredient can cause the plastic housing to crack or o-rings to swell.**

Push buttons

To prevent build-up of salt, sand, or debris, the push buttons should be flushed with fresh, clean water after every use. Depress each push button while the housing is submerged in fresh water.

1. Press and hold the push button all the way in.
2. Use your finger or other small non-metal object to place a small amount of lubricant at the base of the push button shaft inside the housing.

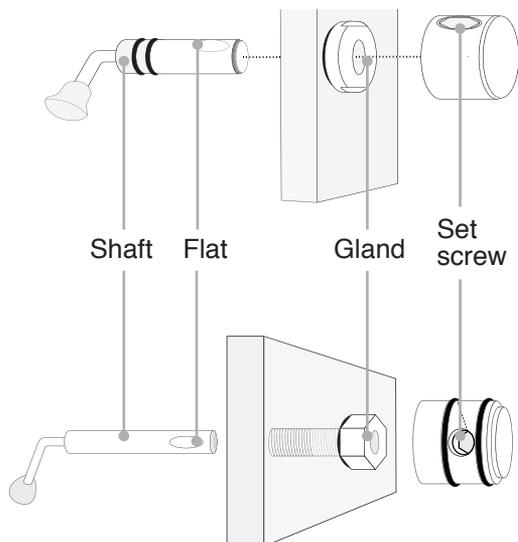


3. Press and release the push button several times to work the lubricant into the o-ring.
 4. If a push button control becomes difficult to push or if it sticks when depressed, soak the housing in warm, soapy fresh water. After a few minutes, operate the push button. If this does not correct the problem, return the housing to Ikelite for maintenance.
- » **If it is necessary to remove a housing push button, never re-use the e-clip. Push button o-ring kits include replacement e-clips.**
 - » **Push buttons look similar but vary in length. Remove and re-install one push button at a time**

Control Shafts

In the unlikely event one of the control shafts sticks or becomes difficult to operate, you may remove the control from the housing and lubricate it, or return the housing to Ikelite for maintenance.

1. The set screw may be covered by a vinyl sleeve. If so, remove the vinyl sleeve first to reveal the set screw.



2. Open the housing and gently slide the control shaft out of the control gland.
 3. If there is salt or dirt build-up on the exposed control shaft, clean the shaft.
 4. Clean and lightly lubricate the shaft and o-rings (if visible), including the large outer end of the shaft.
 5. Gently re-install the shaft from the inside of the housing. If there is a spring associated with the control, make sure it is in its proper position.
 6. Rotate the gently for smooth installation into the gland. Push the control shaft all of the way through until the flat of the shaft is visible on the outside of the housing.
 7. Align the knob set screw with the control flat.
 8. Tighten the set screw firmly against the flat of the control shaft using a hex key.
 9. Check that the set screw is oriented properly by holding the control shaft in place on the inside of the housing while attempting to rotate the control knob on the outside of the housing.
- » **We do not recommend removing the control gland from the housing.**
 - » **Always take the housing under water without a camera after removing and re-installing controls.**
 - » **Remove and re-install one control at a time.**
 - » **If your housing has a shutter spring, DO NOT rotate the shutter control more than 1/16th of a full rotation, otherwise, you may accidentally bend the shutter spring or cause the spring to “pop off” the control shaft.**

Troubleshooting

Water enters the housing

- Re-clean and re-install the back and port o-rings.
- Take the housing underwater without a camera installed to ensure that the leaking has been corrected.

Photos are over-exposed (too light)

- Adjust aperture (smaller), shutter speed (faster), or ISO (lower) setting.
- Move light(s) farther away from your subject.
- Adjust exposure compensation in the camera.
- Adjust lighting power.

Photos are under-exposed (too dark)

- Adjust aperture (larger), shutter speed (slower), or ISO (higher) setting.
- Move light(s) closer to your subject.
- Adjust exposure compensation in the camera.
- Adjust lighting power.

Strobe will not fire

- Turn on strobe.
- Make sure that the camera menu is set properly to fire an external flash.
- Check that the sync cord is properly attached.
- Check that the hot shoe is pushed all of the way forward.

Buttons are stuck

- Soak the housing in lukewarm fresh water. Depress each button several times while the housing is submerged.
- Apply lubricant to the button. Press the button several times to distribute the lubricant.

Button(s) or control(s) do not line up

- Tighten the camera mounting plate with a coin or screwdriver.
- Ensure that nothing is preventing the camera from going into the housing.
- Push the camera mounting plate forward until it is flush with the housing base plate.

Camera is not functioning normally underwater

- Ensure that the camera mounting plate is pushed all of the way into the housing mounting plate.
- Check each housing control while underwater to ensure that they are disengaged. An inadvertently engaged control may limit functioning of the camera.

Backscatter or “snow” in images

- Reposition strobe(s) or light(s) to light up the subject only and NOT the water in-between the camera and subject.
- Avoid using strobes in extremely low-visibility conditions.

Spare Parts

- Main O-ring # 0132.61
- Port O-ring # 0132.45
- Port Thumbscrews (set of 3) # 9249.7

- Shutter Lever Extension # 4077.93
- Waterproof Bulkhead Cap # 9104.5
- Silicone Lubricant # 0184.2
- Control & Push button Tip Assortment # 9249
- Push button O-ring Kit # 6201.03
- CT1K Canon TTL Kit # 46070

Go to **ikelite.com** for additional information.

Limited Warranty

This Ikelite product is warranted against any manufacturing defects for a period of one (1) year from the original date of purchase. Defective products should be returned to Ikelite postage paid. Ikelite will, at its sole discretion, repair or replace such products, and will return to customer postage paid. All other claims of any nature are not covered. Except as mentioned above, no other warranty expressed or implied applies to this Ikelite product.

Service and Repairs

Ikelite is most interested in performing any service to ensure that all products perform as intended. Evidence of purchase date must be provided to obtain warranty service.

No prior authorization is required. You may return directly to us or through your dealer. Please include a brief description of the problem, any relevant email correspondence, and/or description of the service request. Always include name, shipping address, email address, and phone number inside of the package. Send postage paid to:

Ikelite Underwater Systems
Attention: Service Department
50 West 33rd Street
Indianapolis, IN 46208 USA
+1 (317) 923-4523
service@ikelite.com

For the separate international customs documentation form that you complete to accompany the shipment, please state or designate that the enclosed products were originally manufactured in the USA and are being returned to the manufacturer for repair service. Value of the equipment listed for customs purposes should be zero.

Contact Us

If you have any questions about your product or need advice on getting the images you want, please get in touch with us and we'll do everything we can to help you capture your unique perspective.

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