



200DL Underwater Housing for Panasonic Lumix G9 II

Product # 71317

Introduction

Thank you for your purchase of Ikelite products.

Our primary focus is to provide quality, professional grade products for use in and under water. Our products are designed, manufactured, and distributed from our sole facility in Indianapolis, USA where we started in 1962.

We are available if you have any questions or want photo advice. Send us an email 24 hours a day to ikelite@ikelite.com. We strive to reply within 1 business day.

An electronic version of this instruction manual is available for download via the product page on our website:

<https://www.ikelite.com>

In the Box

- Housing
- Main O-ring # 0132.59 (installed)
- Port O-ring # 0132.45 (installed)
- Zoom Gear Petainer # 0072.42 (installed)
- Body Cap # 0200.92 (installed)
- Waterproof Bulthead Cap # 9104.7 (installed)
- Base with Left-Hand Quick Release Handle (installed)
- Hardware Set for Base with Handle # 9523.23 (installed)
- Tool for Zoom Gear Petainer # 0945.22
- .050" Hex Key # 0945.11
- Silicone Lubricant 1cc tube

Important Notices

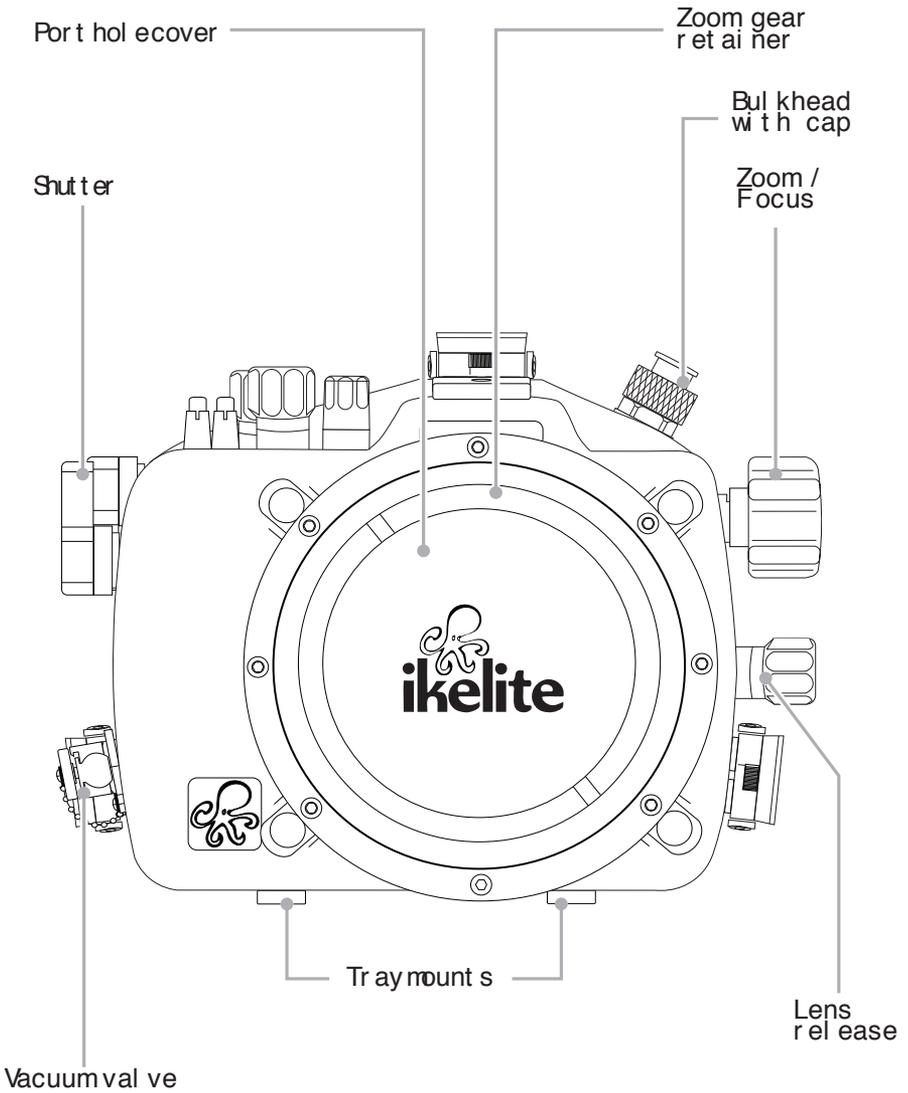
- » **This housing requires a compatible DL lens port for waterproof operation (sold separately). The housing is not waterproof without a DL lens port attached.**
- » **A bulkhead cap or sync cord must be attached to the housing bulkhead for waterproof operation. Never submerge the housing in water without either a sync cord or bulkhead cap attached.**
- » **Do not pull the shutter trigger without a camera installed. You may accidentally detach or damage the control spring.**
- » **Never leave a housing in a rinse tank, even if it is the only system in the tank. Accidental damage may occur when the user walks away from a housing while it is in the rinse tank.**
- » **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.**
- » **If you will be using the system in strong surf it is recommended to draw a vacuum on the housing using the optional vacuum pump (sold separately).**

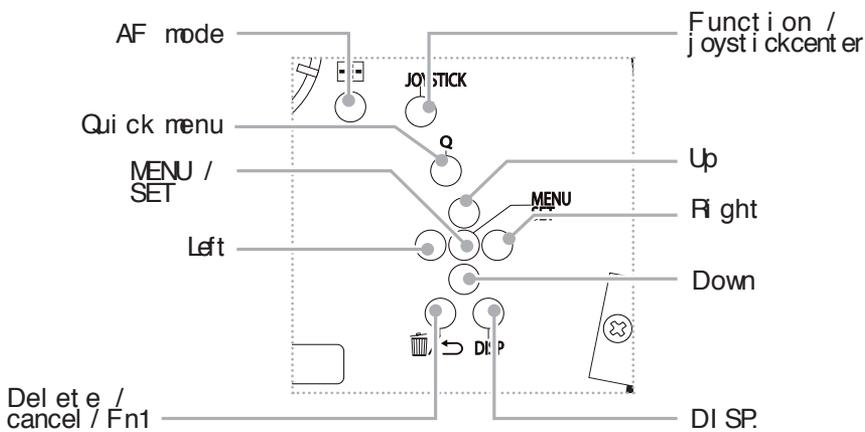
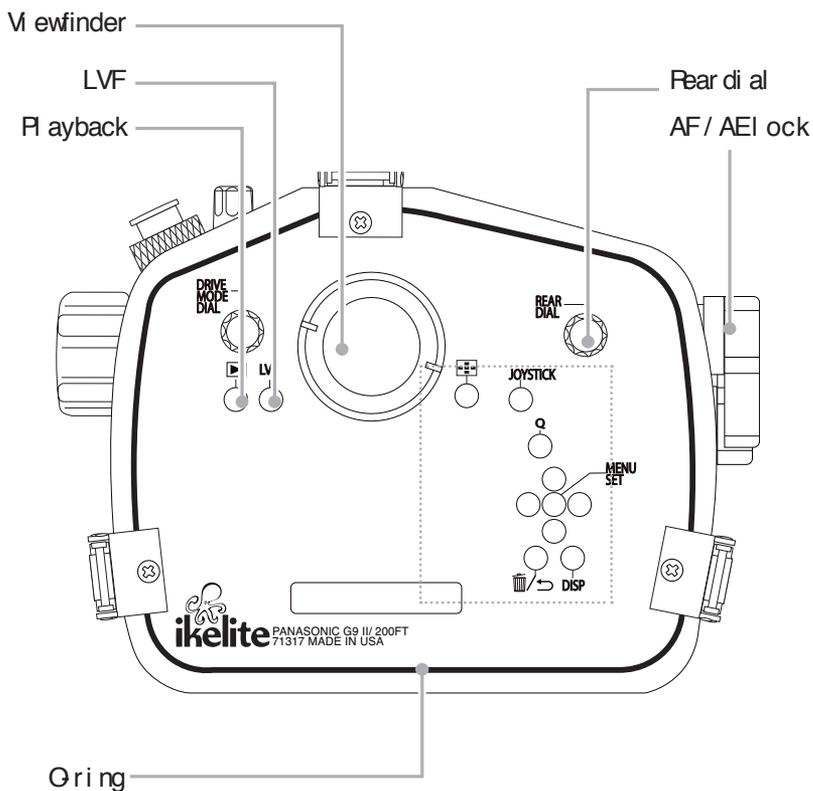
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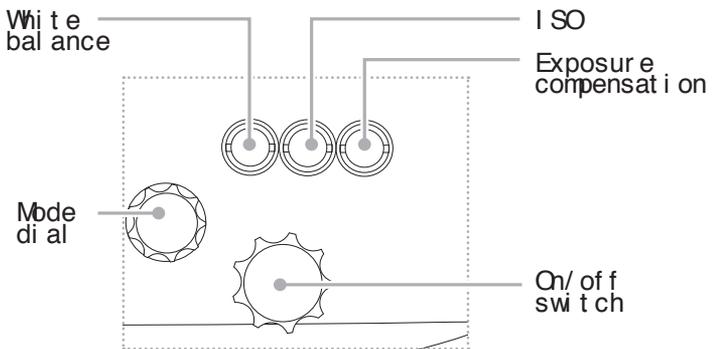
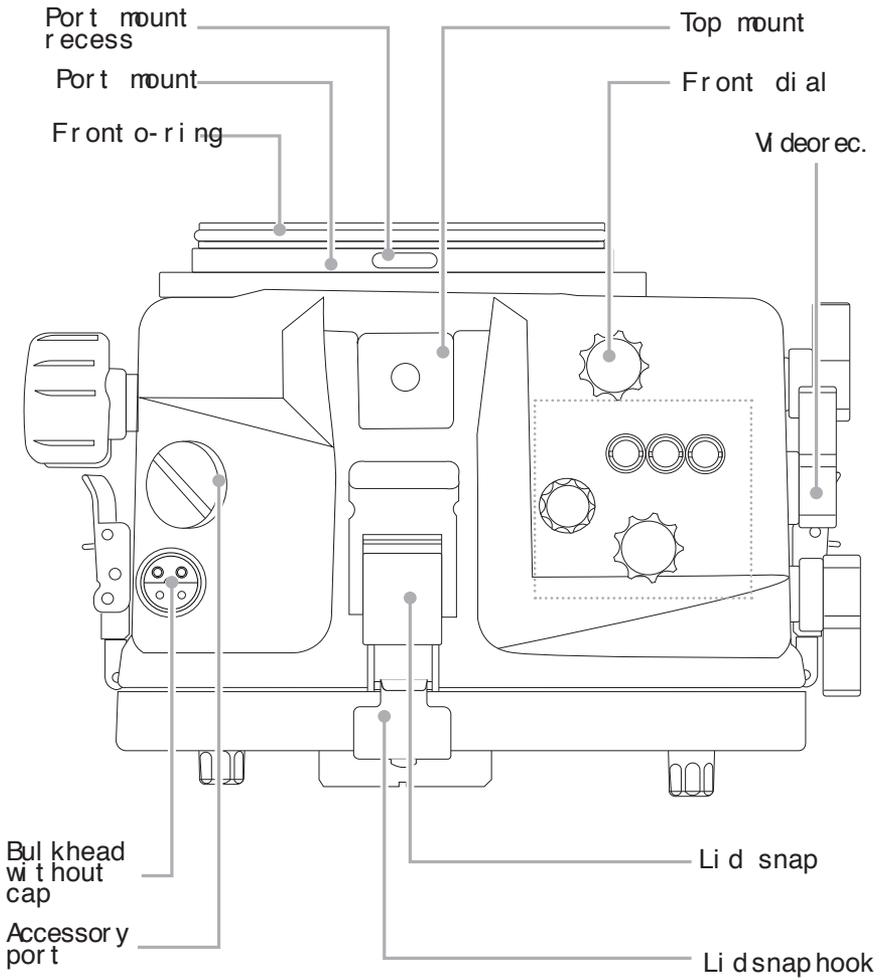
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Getting to Know Your Housing

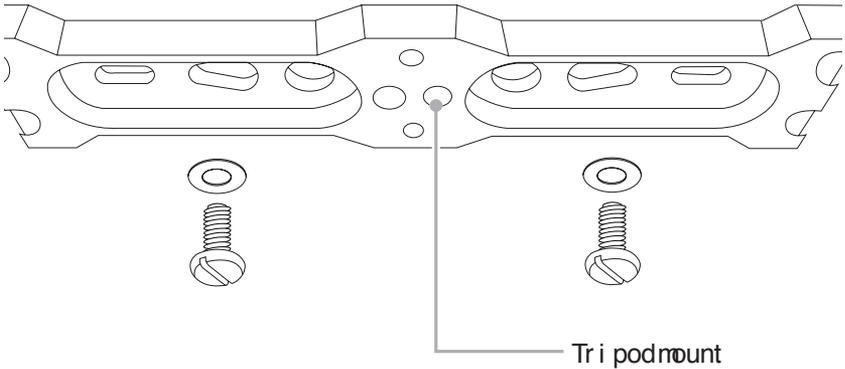






Base with Quick Release Handle

The hard drive is attached to the base plate at each end of the housing with the two 1/4" nylon washers and 1/4-20 x 3/8" screws.



It is recommended to remove your base with the quick release handle and thoroughly inspect the tray, housing, and hard drive periodically.

Central 1/4-20 threaded hole allows attachment of the base plate to a standard tripod.

The base features additional mounting locations for attachment to a variety of Ikelite housings (hardware not included).

Accessory Port

This housing features one spare accessory port which may be used for the attachment of optional accessories. This port is designed for an M16 threaded hole including the USB-C Charging & Data Transfer Bulbhead, which allows you to download the camera's memory card to your computer and charge the camera without removing it from your housing.

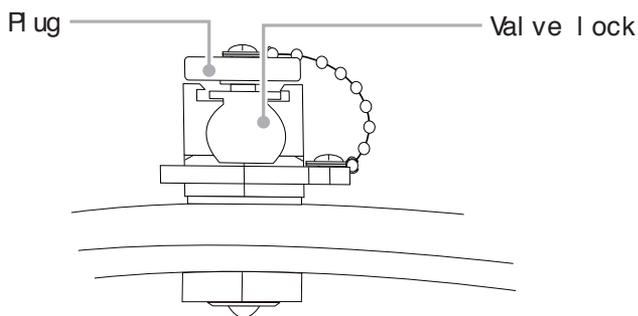
- » **Do not remove or loosen the accessory port plug unless you are installing a compatible accessory.**

Top Accessory Mount

The housing features a 1/4-20 threaded top mount. Ball and flange type mounts are available for the attachment of a GoPro camera, focus light, or other light weight accessories.

Vacuum Valve

Your housing features a valve to check for leaks before entering the water. 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 plug installed. The housing will not be waterproof without the plug installed.**

Trigger Extensions

The shutter and AF-ON levers may be extended to be closer to your hands when using the optional Right-Hand Quick Release Handle #4077.02. This requires the Trigger Extension #4077.95 (one per control).

Trigger extensions and right-hand quick release handle are sold separately.

Setting Up Your Camera

Pre-Installation Checklist

1. Insert a fully charged camera battery.
2. Insert a properly formatted memory card.
3. Remove lens cap and any attached lanyard or neck strap.

Camera Settings

- Set **Eye Sensor Menu > LVF/Monitor Switch** to “MON.”
- Set **AF Assist Light** to “OFF.”
- Set **Flash Mode** to “Forced Flash On” without red-eye reduction when using an external strobe.
- Set **Flash Sync** to “1st curtain sync” (default) when using an external strobe. “2nd curtain sync” may be used with compatible TTL converters. When an external flash is used, the fastest shutter speed that can be selected is 1/250.
- Set **HDR** to “OFF” when using an external strobe.
- Flash cannot be used when an image effect in **Filter Effect** is selected.

Camera Settings Display

Some camera information can be toggled on and off using the DISP. button.

For a larger display of camera settings, use the Custom mode display of the Quick Menu. Use the front and rear dials to change settings.

Exposure Settings

Refer to the **Cheat Sheets** in the PhotoSchool section of our website for recommendations on exposure settings for a wide variety of shooting situations: <https://www.ikea.com/usa/en/cheat-sheets>

Back Button Focus

Back button focus takes some adjustment to get used to but can be very valuable in a variety of shooting scenarios.

Use the camera's custom settings menu to set **Focus/Release Shutter** to "AF-ON," which initiates autofocus. Then set **Focus/Release Shutter** to "Shutter AF" to "OFF."

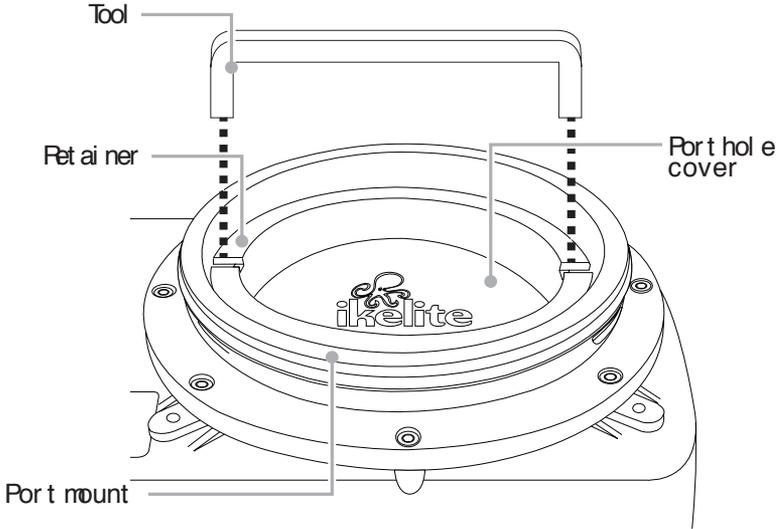
The AF/AELock button is conveniently accessed by a thumb lever on the side of the housing. Instead of half-pressing the shutter to obtain focus and lock focus, press the AF/AELock button.

For super macro photography, you can use this technique instead of a manual focus gear. Press AF/AELock to lock focus at the minimum focus distance of your lens. Then move slightly in or out until the subject is in focus.

Setting Up Your Housing

Removing the Port Hole Cover

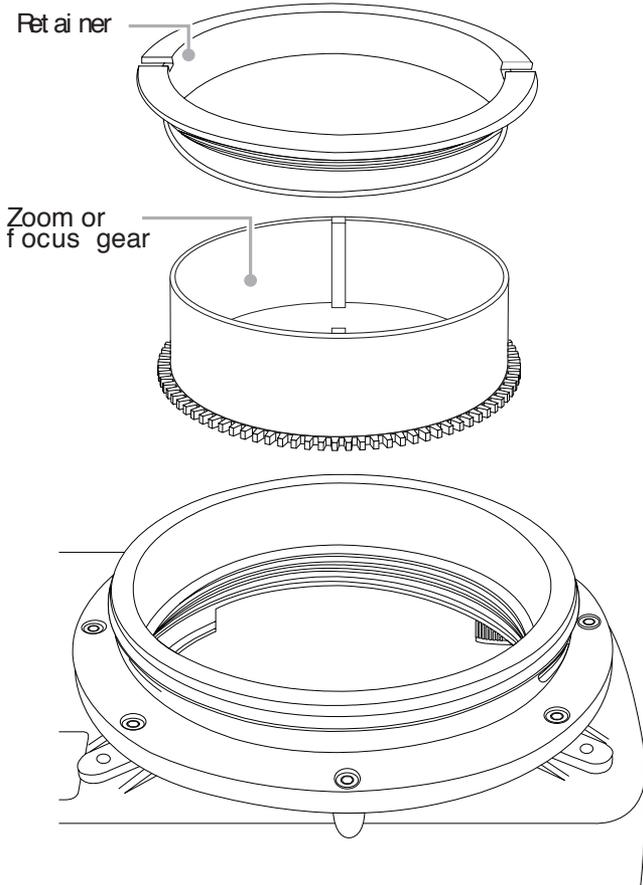
1. Align the zoom gear retainer tool with the notch in the zoom gear retainer.



2. Rotate the removal tool counter-clockwise until the retainer is free from the lens port mount.
3. Remove the port hole cover from the housing.

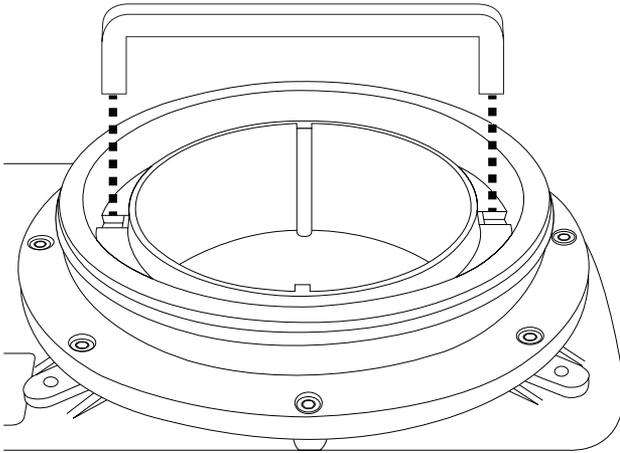
Installing a Zoom or Focus Gear

1. Place the zoom or focus gear (sold separately) into the lens port mount opening with the gear teeth toward the inside of the housing.



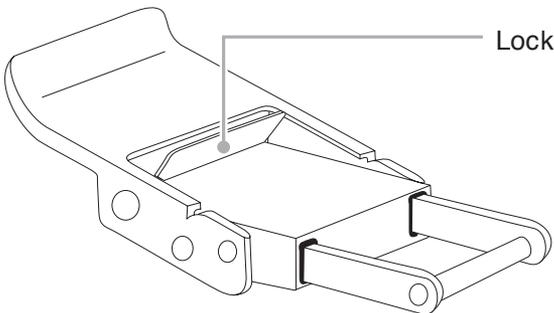
2. Place the gear retainer into the opening around the gear.

3. Tighten the lid and inner by turning the clockwise screw to the bottom until it is snug. Do not over-tighten.



Opening the Housing

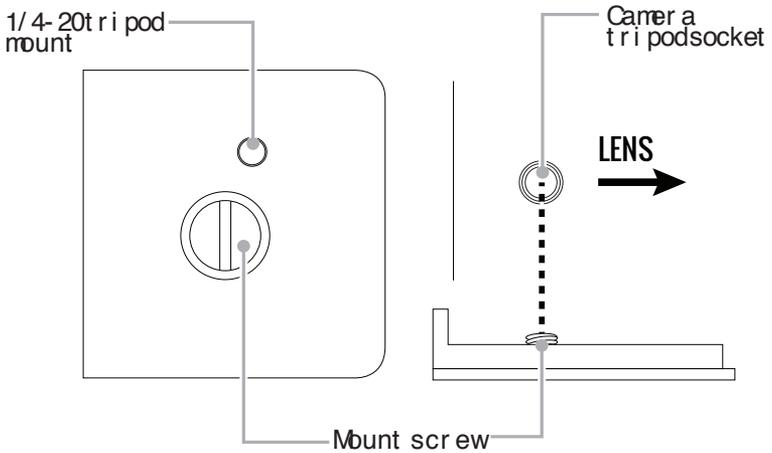
1. Push the lid snap lock forward and lift the curved end away from the housing.



2. The lid snaps are designed to provide enough force to compress the O-ring or apron seal. Keep firm pressure against the lid snap while lifting it away.
3. Repeat with remaining lid snaps.
4. Remove the housing back.

Installing the Camera

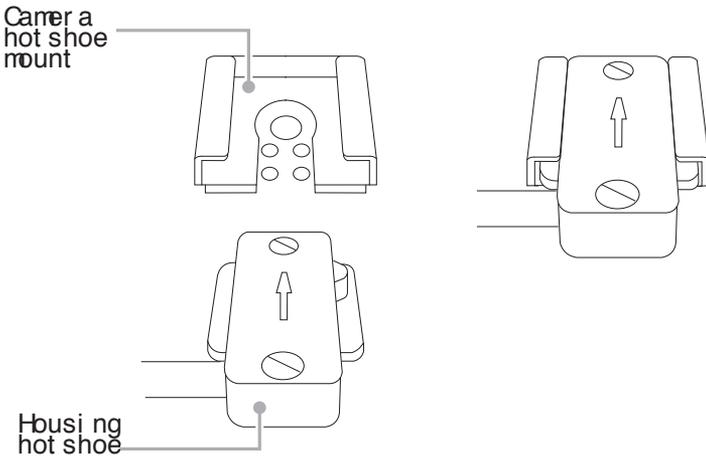
1. Remove any lanyard or neck strap which may be attached to the camera.
2. Check to see whether the camera's lens will fit through the port opening of the housing. If not, the lens will need to be removed from the camera body and re-attached after the camera body is installed in the housing.
3. Remove the camera mount plate from the housing.
4. Insert the mount screw with the camera's tripod socket. Use a flat screwdriver to tighten the mount plate to the camera.



5. Pull out the housing control knob so the control is out of the way.
 6. Insert the mount plate into the slot on the inside of the housing. Push the camera all the way forward until it stops.
 7. Push housing control knobs in and check orientation with the camera.
- » **The camera may be attached to a tripod using the 1/4-20 threaded mounting hole on the bottom of the mount plate.**

Attaching the Hotshoe

1. Orient the hot shoe with the rear window opposite the camera.



2. Slide the housing hot shoe into the camera's hot shoe mount until it stops.
- » **The hot shoe must be all the way forward in the camera mount for proper flash operation.**

Closing the Housing

1. Make sure the original seal is in its proper location on the back of the housing. The rear housing ring does not require lubricant to make a seal.
2. Place the back onto the housing front.
3. Make sure no controls will be interfered with when the back of the housing is closed.
4. Place each lid snap into the corresponding hook on the housing back.

5. Push the lid snapstowardsthehousinguntiltheyareeflatagainst thehousingandthehookhasengaged. Closeoppositelid snapsat the same time.
6. Check the ori ng seal . The ori ng should be maunif orm sol id i ne vi si bl e through the back of the housi ng.
7. Check control functi ons.
8. Att achal enst ot he camera body. If usi ng zoom gear wi th cl amp, refer t o the zoom gear i nst ruct i ons f or i nst al l i ng the cl amp wi th the zoom gear.

Attaching a Lens Port

Refer t o the appropri ate l ens port char t t o f i nd compat i bl e l ens port s f or a wi de vari et y of popul ar wi de angl e, zoom and macro l enses.

Choose a dome port f or wi de angl e and zoom l enses. Larger di ameter domes are bet t er f or spl i t shot s (hal f - i n, hal f - out of t he wat er) and provide sharper i mages.

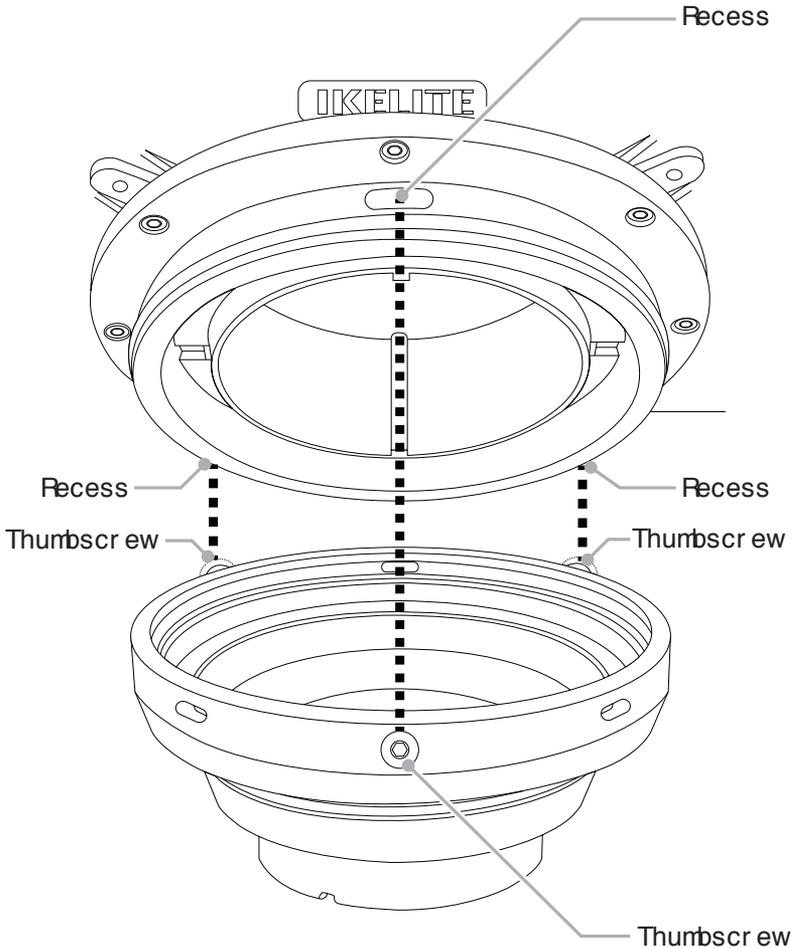
Choose a fl at port f or macro l enses. Fl at port s magni fy t he subj ect under wat er . Fl at port s are not recommended f or wi de angl e or zoom l enses due t o the r l i mi t ed fi el dof vi ew and r i sk of vi gnet t i ng (dark shadows around the edges of the i mage).

- » **This housing requires a compatible DL lens port for waterproof operation (sold separately). The housing is not waterproof without a DL lens port attached.**

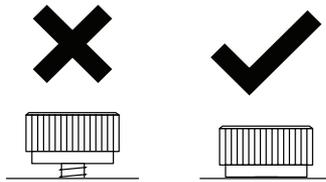
Installing the Lens and Port

1. Att ach the l ens t o the camera. If usi ng zoom f ocus gear set t hat r equi r es a cl amp, make sur e the cl amp sl ot s are al i gned wi t h t he gear t abs. Test the funct i on bef ore att achi ng the port .
2. Check t hat t he port seal i ng sur face i s cl ean and f r ee of debr i s.

3. Apply a very thin, even layer of lubricant to the exposed portion of the front o-ring and the helix sport seal inner surface. Avoid dry spots or uneven build-up of lubricant.
4. Align the port thumb screws with the recesses in the housing's sport mount.



5. Press the port firmly towards the housing until the base of the port is flush with the housing's sport mount. If there is resistance, remove the port and re-check that the thumb screws are loosened and the o-ring is properly lubricated.
6. Tighten all three thumb screws while holding the port firmly towards the housing. The thumb screws should head in completely until the head touches the port or extension body. If the screws are difficult to turn and/or they bottom out before their heads are flush, it is an indication that the port is not properly aligned.



- » **Proper alignment is critical to waterproof operation. Check that your lens port is oriented correctly and fully seated before entering the water.**
- » **Zoom/focus gear parts and installation vary depending on the lens you are using. Refer to the instructions included with the zoom or focus gear for detailed installation information.**

Setting Up An External Strobe

We recommend attaching an external strobe to the optional color and clarity navigator if you plan to use it for photography, including daylight photography.

This housing provides a direct electrical connection to the camera's external flash hot shoe via a manual flash hot shoe. An external strobe may be triggered via an electrical sync cord.

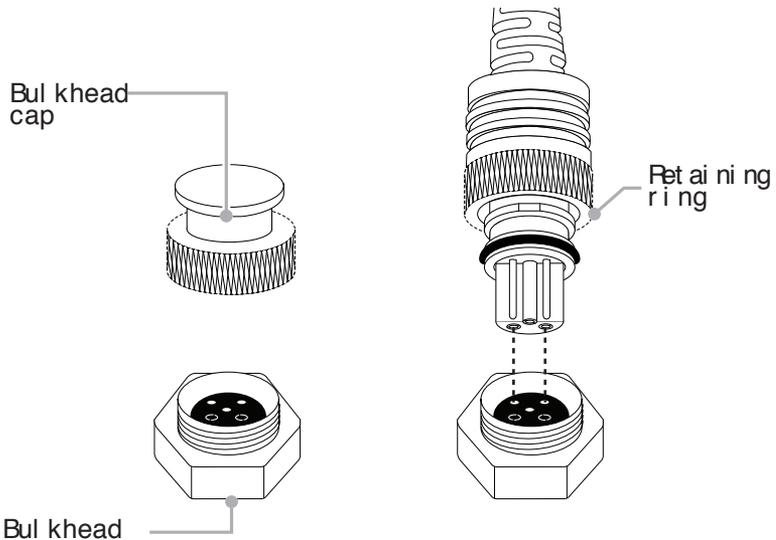
About Sync Cords

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- » **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.**

Attaching a Sync Cord or TTL Converter

1. R e m o v e connect or pr ot ect or s and bul khead caps f r om each connect i on.
2. A p p l y a v e r y t h i n, e v e n l a y e r o f l u b r i c a n t o n a l l t h r e a d s, s e a l i n g s u r f a c e s, a n d t h e e x p o s e d p o r t i o n o f t h e p l u g - r i n g. D o n o t a l l o w l u b r i c a n t t o g e t i n t o t h e p i n s a n d r e c e p t a c l e s o f t h e p l u g o r b u l k h e a d s.



3. Align plug and insert it into the housing bulkhead. Each mating surface must be aligned properly before tightening any results and damage to the converter plug and/or housing bulkhead.
 4. Hand-tighten the retaining ring.
 5. Attach the other end of the sync cord to the bulkhead on your strobe.
 6. Turn on the strobe(s).
 7. Turn on the camera. Take a test photo to ensure that your strobe(s) are functioning properly.
- » **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.**

Getting in the Water

Final Check

1. Re-check the ear o-ring seal. This seal should form an even, solid line visible through 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. If using a +4 diopter, your camera will only be able to obtain focus on subject at a distance of approximately 12" (0.3m) or less surface.
4. Check camera battery level and available storage space on your memory card.
5. We strongly recommend drawing a vacuum on the housing to check for leaks using a handheld vacuum pump (sold separately).

6. Submerge the housing in a fresh water tank dedicated to underwater photography equipment. Visually confirm that there are no signs of water intrusion. Check for water intrusion as soon as you start a 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. 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. Look for water droplets or fogging inside of the housing, or as soon as you start a stream of bubbles coming from one of the housing seals.
 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.
- » **If water appears to be entering the housing, point the lens port downward and return the housing to the surface immediately. Please observe all necessary safety precautions. NEVER ascend faster than accepted safety limits.**

Shooting Underwater

- Get as close as possible to your subject. For the best results, only photograph subjects that are less than 6' (1.8m) away.
- Be careful not to stir up sand or silt.
- Photograph subjects straight on or at a slight upward angle.

- If you err 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.
- » **It is important to respect all living creatures underwater, including people, marine life, and coral. Get as close as you can to your subjects when taking a photograph, but never touch or disturb the marine life.**

Learning about Underwater Photography

Visit the PhotoSchool section of ikeelite.com for a wide range of information on shooting underwater including:

- **Product Tutorials and Videos**
- **Cheat Sheets** with exposure settings recommendations for a wide variety of situations
- **Advanced Techniques** with in-depth hard to find different shooting techniques
- **Frequently Asked Questions**
- **Photo Galleries** showing examples of real results underwater
- **Feature Articles** and more!

Maintaining Your Housing

Post-Dive

1. Rinse the housing in fresh water. Rotate the housing controls and press each button several times 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 damage occurs most often in the rinse tank.
3. Rinse off any residual residue from the rinse tank with clean, running fresh water.
4. Store the housing in a shaded place where it is protected from impact and overheat. If no shade is available, cover the housing with a light colored towel or cloth.
5. Check the memory card capacity and battery life of your camera and strobe(s). Recharge as necessary.
6. Always re-check o-ring seals after opening the housing or removing the lens port.
7. Detach the coroplast bulb headcap and lubricate the heads, o-ring(s) and sealing surface(s) every 2-3 days during continuous use.

Lens Port

Treat the surface of the lens port like a camera lens. After use, rinse and gently dry the outside of the lens port to avoid water spotting. Use only a microfiber lens cleaning cloth to avoid scratches. To clean, use mild soap solution.

- » **Do not rinse the inside of the lens port.**
- » **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.**

Storage

1. Clean the housing and controls thoroughly prior to storage.

2. Remove the ear and front o-rings. 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 hand(s) and hardware 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 screws in each control knob. Check each control and make sure they are snug. There is a slight chance that either could be at the loose during travel.
- » **Do not leave the camera and housing in direct sunlight for prolonged periods. Heat may damage the camera.**
 - » **Do not transport with the camera inside of the housing.**
 - » **Do not store the housing in a humid environment. Prolonged exposure to high humidity may damage electronic components.**

Servicing Recommendations

It is recommended that the housing be sent to a local authorized service center for annual service or routine service and maintenance. Service may be required more or less frequently depending on care and use.

Lubricating Controls

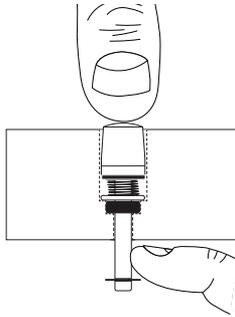
The housing's controls may need to be lubricated if they become difficult to use or if the o-rings have dried out during long periods of storage.

- » **Use only Ikelite 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.**

Lubricating Push Buttons

1. Press and hold the push button all the way in.
2. Place a small amount of lubricant at the base of the push button shaft inside the housing.

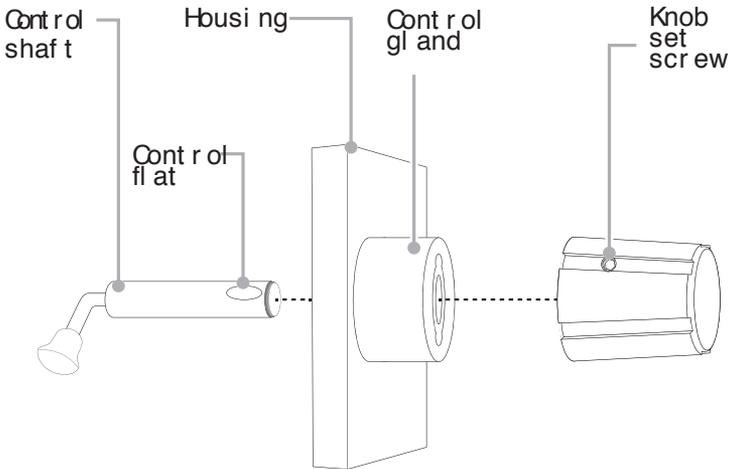


3. Press and release the push button several times to work the lubricant into the o-ring.
 4. If a push button control becomes difficult to push or if it sticks when depressed, soak the housing in warm soapy fresh water. After a few minutes, operate the push button. If this does not correct the problem, return the housing to Kelite for maintenance.
- » **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.**
 - » **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.**

Lubricating Control Shafts

1. Loosen the knob set screw using a hex key.
2. Remove the control shaft from the inside of the housing.
3. Clean and lightly lubricate the shaft, including the helical gear end of the shaft.
4. If there is a spring associated with the control, make sure it is in its proper position.



5. Re-install the shaft from the inside of the housing. Fit at the shaft gently by or smooth it in at a low angle. Push the control shaft all the way through until the flange of the shaft is visible on the outside of the housing.
6. Align the knob set screw with the control flange.
7. Tighten the set screw firmly against the flange of the control shaft using a hex key.

8. Check that the set screw is oriented properly by holding the control shaft in place on the inside of the housing while the empty rotor rotates the control knob outside of the housing. If there is rotation, loosen the set screw and realign with the control flange; retighten and recheck.
- » **We do not recommend removing the control gland from the housing.**
 - » **Always take the housing underwater to depth without a camera after removing and re-installing controls.**
 - » **Remove and re-install one control at a time.**
 - » **DO NOT pull the shutter trigger without a camera installed. You may accidentally detach or damage the control spring.**

Troubleshooting

Water enters the housing

- Check and reinstall the rear and front o-rings.
- Replace the o-rings if there are any signs of cracks or tears.
- Take the housing under water to depth 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 and make sure they are pointed in the right direction.
- Adjust exposure compensation in the camera.
- Adjust lighting power.

Strobe(s) will not fire

- Turn on strobe.
- Check the strobe(s) battery life.
- Reset or set the camera to factory default settings. There are some camera settings that will prevent an external flash from firing.
- Check camera settings recommended for use with an external strobe in the beginning of this manual.
- Check that the sync cord is properly attached.
- Check that the hot shoe connectors are plugged in properly.
- Check that the housing's hot shoe is pushed all of the way forward on the camera.

Button(s) are sticking

- Soak the housing in lukewarm freshwater. Depress each button several times while the housing is submerged. Rinse the housing with running freshwater.
- Lubricate the controls.

Button(s) or control(s) not operating

- Tighten the camera mounting plate with a screwdriver.

- Ensure that not hing spr event i ngt he camer a f r omgoi ngal l of t he way i nt o t he housi ng.
- Check t hat t he camer a mount i ng pl at e i s pushed al l of t he way f or war d.

Camera is not functioning normally underwater

- Check each housi ng cont r ol whi le under wat er t o ensur e t hat t hey ar e di sengaged. Ani nadvert ent l y engaged cont r ol may l i mi t f unct i oni ng of t he camer a.
- If usi ng adome port , t he l ens must be abl e t o f ocus t o 12" (0.3m) . If t he mi ni muf ocus of t he l ens i s gr eat er t han 12" (0.3m) , add a +4 di opt er t o t he front of t he l ens.
- Check t hat no cont r ol s ar e bei ng acci dent al l y pr essed.
- Check t hat t he shut t er i s not hal f depr essed. If t he shut t er spr i ng has been damaged by act i vat i on w i t hout a camer a i nst al l ed, i t may not r et urn pr oper l y. Adj ust or repl ace t he shut t er spr i ng.

Backscatter or "snow" in images

- Reposi t i on st robe(s) or l i ght (s) t o l i ght up t he subj ect onl y and not t he wat er i n- bet ween t he camer a and subj ect .
- Avoi dusi ng st robes i next r er el y l ow- vi si bi l i t y condi t i ons.

Spare Parts

Rear o-ring # 0132.59

Front o-ring # 0132.45

DL port thumbscrews (set of 3) # 9249.7

Port hole cover # 0200.92

Zoom gear r et ai ner # 75900

Trigger lever extensi on # 4077.95

Hardware set f or base w i t h handl e # 9523.23

Waterproof bulkhead cap # 9104.7

Silicone lubricant # 5020

Push button o-ring kit # 6201.03

Tool for zoom gear retainer # 0945.22

.050" hex key # 0945.11

Limited Warranty

This limited product warranty is extended against any manufacturer's defect for a period of two (2) years from the date of purchase. Defects in the product should be returned to the manufacturer for repair or replacement products, and will be returned to the customer postpaid. All other claims of any nature are not covered. Except as mentioned above, no other warranty expressed or implied applies to this limited product.

Service and Repairs

This is the most important service for many services that all products perform as intended.

For proper authorization, you may be required to contact your distributor through your dealer. Please include a brief description of the problem, any relevant email correspondence, and/or a description of the service request. Always include name, shipping address, email address, and phone number inside of the package. Send postpaid to:

Elite Underwater Systems

Attention: Service Department

50 W 33rd St

Indianapolis, IN 46208 USA

(317) 923-4523

elite@elite.com

For detailed instructions on setting up your product or service including important information on international customer documentation, please refer to our website at:

<https://www.ikelite.com/pages/service-repairs>

Contact Us

If you have any questions about your product or need advice on getting the pages 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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