

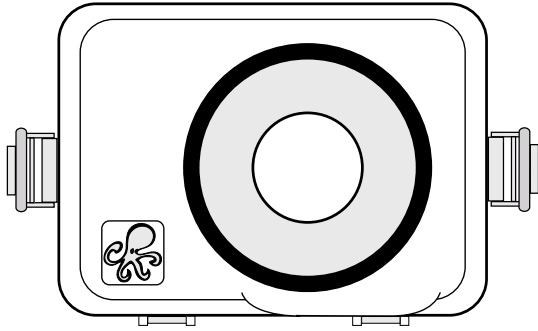


Digital Housing #6171.05

instruction manual

Panasonic Lumix DMC-LX5

Leica D-Lux 5



Included in Box:

- | | |
|----------------------------------|---------------------------|
| 2. Ikelite Digital Housing | 5. Ikelite Lube #0184.1 |
| 3. Lanyard (attached to housing) | 6. Diffuser and Deflector |
| 4. Extra Control Tips | 8. Vinyl Port Cover |

Congratulations on your purchase of an Ikelite Compact Digital Housing. Ikelite has decades of experience in the underwater photographic, video, and lighting market.

Our products are designed and built in the USA by Ikelite for both the professional and amateur.

The clear housing permits instant visual inspection of the camera and all sealing surfaces as well as complete monitoring of controls and camera LCD screens.

This housing has been water pressure tested to 200' (60m) at the factory. All camera controls are fully functional through the housing.

Housing Size and Weight:

7" wide x 5" high x 5.4" deep including controls and lens port.

18cm x 13cm x 14cm.

2.8lb (1.3kg) above water.

Slightly negative buoyancy in fresh water.

Initial Camera Setup

1. Insert a fully charged battery and formatted memory card.
2. Set Shooting Mode to "A" Aperture priority.
3. Set camera date and time.
4. Set Lens Aspect Ratio Selector Switch to "3:2".
5. Set Flash to "Forced Flash On" (lightning bolt in LCD).
6. Set White Balance to "AWB".
7. Set Image Mode to "9m".
8. Set Metering Mode to "Center Weighted".
9. Set AF Mode to "Center".
10. Set ISO sensitivity to "80".
11. Set AF mode to "1-Area".
12. Set Pre AF to "Q-AF".
13. Set Focus Selector Switch to "AF Macro" (flower icon).
14. If NOT using external strobes, raise camera flash BEFORE placing camera in the housing.

Please Read

We suggest that you read this instruction booklet thoroughly before use to have a full understanding of where each camera control is located, and what function each control provides. Also, please read your camera manual thoroughly to have a full understanding of each camera function. If you are new to underwater photography, be sure to read the General and Photo Tips sections.

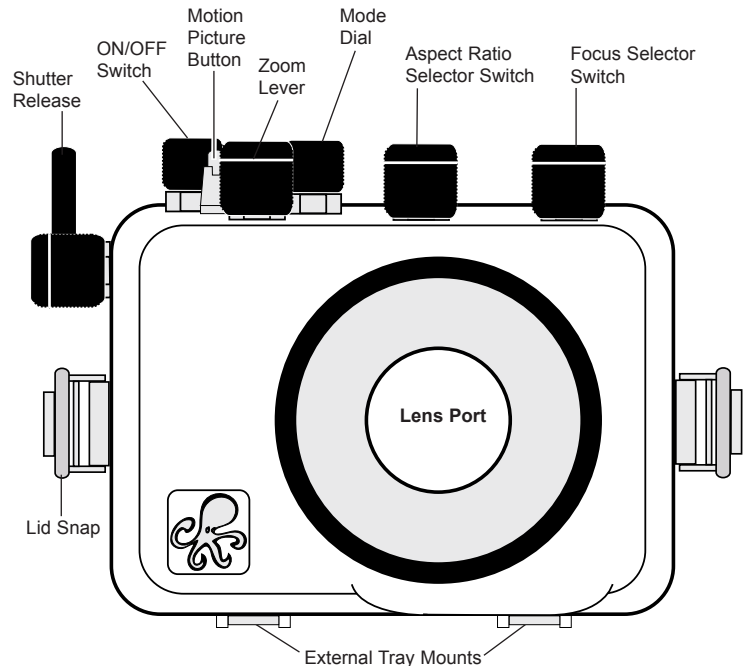
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Housing Controls - Front View

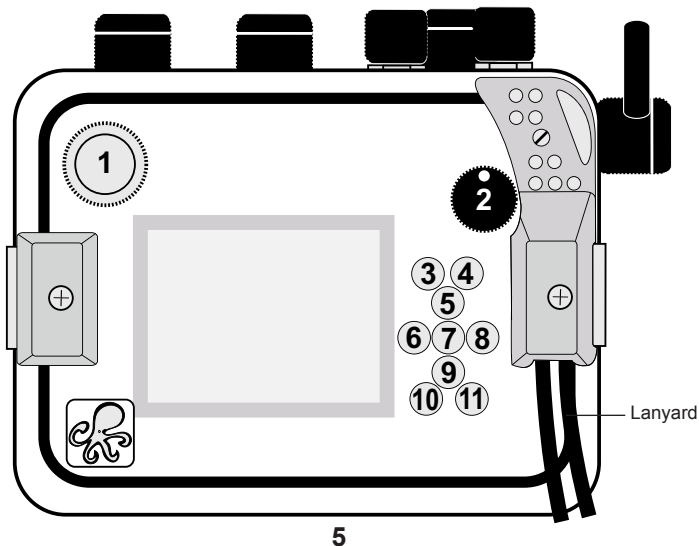
All camera controls accessed except the "Flash Open Switch".

Lens Aspect Ratio Switch: When moving this switch to the left, facing the front of the housing, the control lever start position should be facing the back of the housing. Push down and rotate switch counter-clockwise to change the setting. Lift control off of switch and rotate back to the start position. Repeat procedure until the desired setting is achieved. When moving the switch to the right, only one clockwise rotation should be required to achieve desired setting.



Housing Controls - Back View

Rear Dial Knob Use (control #2): The knob's white dot should be in the 12 o'clock position when not in use, preventing the camera dial from being pushed. This is necessary so the camera will not receive a signal which could lock out other camera functions. To change functions using the Rear Dial, lift and rotate the knob until the white dot is in the 6 o'clock position. Push in and release once or twice until the desired control function is highlighted in the lower portion of your LCD screen. Rotate the knob away from the 6 o'clock position to the desired setting. DO NOT rotate the knob white dot to the 6 o'clock position while a setting is being made, otherwise the chosen camera function may inadvertently change. If necessary, lift the knob to bypass the 6 o'clock position to reach the desired setting. Once the desired setting is reached, lift and return the knob white dot to the 12 o'clock position. Check to make sure your desired settings are correct.



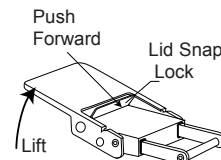
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Housing Controls - Back View (page 5)

1. TTL Bulkhead and Cap
2. Rear Dial
3. AF/AE Lock Button
4. Playback Button
5. Focus/Up Arrow Button
6. Self-timer/Left Arrow Button
7. MENU/SET Button
8. ISO/Right Arrow Button
9. Function/Down Arrow Button
10. Display Button
11. Q. Menu/Delete Button

Opening the Housing

Lid Snaps have a **Lock**. To open housing, push Lid Snap Lock forward and lift as shown. Keep pressure on the Lid Snap so it does not fly open quickly. Some Lid Snaps have a lot of spring tension once they go over center, so keep a firm grip on the Snap. Lid Snaps may be opened one at a time.



Installing the Camera

1. When NOT using external strobes, Raise Camera Flash.
 2. Pull out on each housing control until it stops. This will get the controls out of the way for installation of the camera.
 3. Remove the back from the housing.
 4. The mounting tray for the camera is secured to the housing back. Position the camera on the tray.
 5. Slide the housing Hotshoe Connector into the Camera Hotshoe Mount: **Diagram B - Page 6**. Slide the connector forward until it stops. This should be done **before** the camera is secured with the mounting bolt.
- Note:** If you are using an EV Manual Controller and NOT hard-wiring your strobes directly to the housing, leave the housing hotshoe disconnected from the camera. You will also need to install the Flash Deflector (supplied) over the housing port to block and deflect the camera flash to the EV Controller: **Page 10**.
6. Using a coin or screwdriver (preferred), secure the camera to the mounting tray with the tray mounting bolt. The bolt threads into the camera's tripod socket: **Diagram A - Page 7**.

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CAUTION:

Some camera tripod socket threads are plastic. The mounting bolt is metal. Do not cross thread or over tighten as you may damage the camera tripod socket threads.

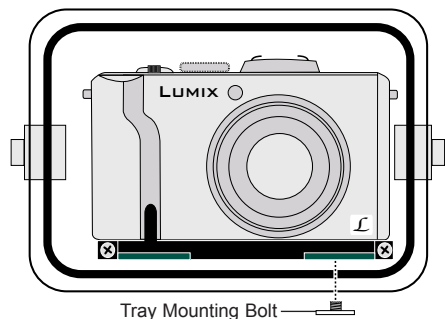
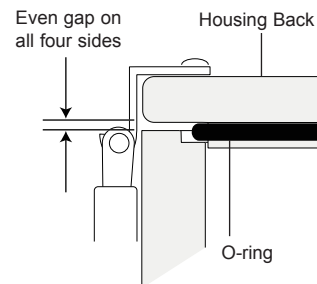
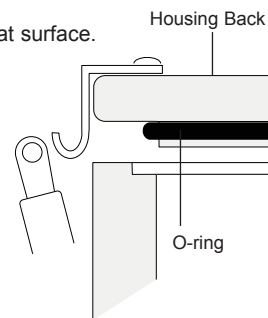


Diagram A

Closing the Housing

1. Place housing face down in your lap or on flat surface.
2. Check to see that there is an o-ring on the housing back and that it is clean and in its proper location.
3. Guide the back into the housing front. The o-ring should touch the housing all the way around. There should be an even gap all the way around between the housing and the housing back.
4. Lift the lid snaps so they are extended and place each lid snap into the corresponding hook on the housing back.
5. To close the housing, push down on the lid snaps until they snap into place. Lid snaps on opposite sides of the housing should be closed at the same time. Be sure they are down far enough to engage the lock.



Double check - Once the housing is closed, check the o-ring seal. The gap between the housing back and the housing should be even all the way around the housing.

Look through the clear plastic back at the o-ring. You should see a darkened area where the o-ring is compressed against the housing back. If you do not see an even black compression seal all the way around the back, open the lid snaps, reset the housing back and close the lid snaps. Visually check the seal again.

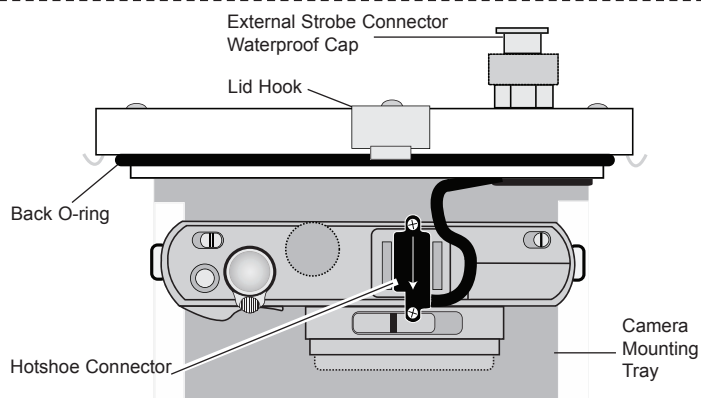


Diagram B

Caution:

Do not remove the External Strobe Connector Waterproof Cap unless an external sync cord is going to be plugged in. Do not remove the Waterproof Cap or Sync Cord underwater.

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Checking Controls

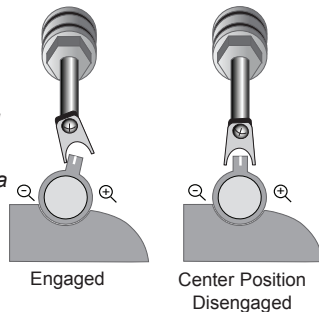
Once the housing has been closed, make sure the housing controls line up with the corresponding camera controls. If the housing controls are misaligned slightly, make sure the camera hold down bolt has been tightened down firmly so the camera is flat against the tray.

Turn Camera On

Turn the camera on and operate each of the housing controls to get a feel for using the camera in the housing. Take a few pictures above water with the camera in the housing.

Zoom Control

(NOTE:) After you have used the housing's zoom control, it must be returned to the center position to disengage. If the housing zoom control is pushing the zoom lever in either direction, you may not be able to take a picture or access any other function because the camera is receiving a signal from the engaged zoom control.



Using the Camera's Built-in Flash

A built-in flash is effective between 1-3 feet (0.3-0.9m) from the subject in clear conditions. For the best results, we recommend using an external Ikelite Substrobe. If you do not have an external strobe, the camera's built-in flash can be used with a diffuser (included with housing) installed. This use is limited due to the housing port blocking a portion of the built-in camera flash. Install the Diffuser and zoom in slightly to eliminate any dark areas noted in your photographs. See Diffuser/Deflector Installation below.

NOTE: The camera's built-in flash CANNOT be used with optional Wide-Angle or Accessory lenses.

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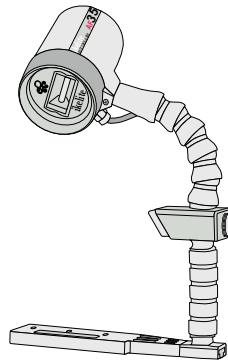
Using Ikelite Strobes (Optical TTL)

AF35 AutoFlash Kit #4035

The AF35 AutoFlash kit can be attached directly to the LX5 housing and provides automatic "TTL" exposure by optical signal from the camera's built-in flash. The AF35 is slightly less powerful than our DS Substrobes and is not able to take advantage of the housing's built-in circuitry.

AF35 AutoFlash kit includes:

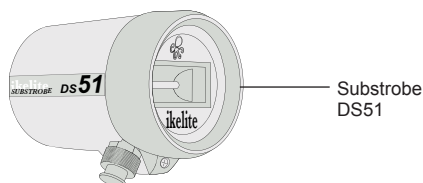
- AF35 strobe - Flex arm - AutoFlash sensor
- Handle with rubber grip - Tray (single or dual)
- Mounting hardware.



Using Ikelite Strobes (Hard-Wired TTL)

DS51 Substrobe

The DS51 Substrobe covers the equivalent of a 28mm lens. It is the ideal choice when using only the camera lens with no accessory wide angle lenses attached.



Actual Size:
8 cm dia x 12 cm
3.2" dia x 4.7"

DS161 Movie Substrobe

The DS161 Movie Substrobe combines all of the functionality of our renowned DS160 Strobe with a powerful 500 lumen LED video light. Three super-bright LEDs are arranged behind a special optical element to provide a 45 degree angle of coverage, free of hotspots.

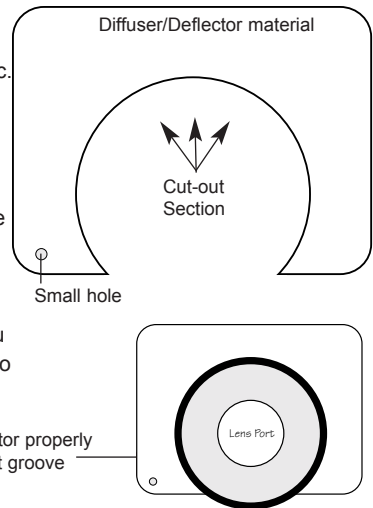
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Diffuser and Deflector Installation

A diffuser and deflector are included with the housing. The diffuser is white transparent plastic. The deflector is also white but is not transparent.

To install the diffuser or deflector, push the "Cut-out" Section into the port groove until it stops.

Note the Small Hole. To avoid losing the diffuser or deflector, you can attach a fishing line or string to this hole.



Diffuser Use

The diffuser should be installed when using the camera flash. When shooting close-up photographs with the camera flash and at the camera lens's widest angle setting, the lens port on the housing can block a portion of the light from the camera flash. This can result in a shadow in a lower corner of the frame. Zoom the lens to eliminate the shadow (You can test this above water).

Deflector Use

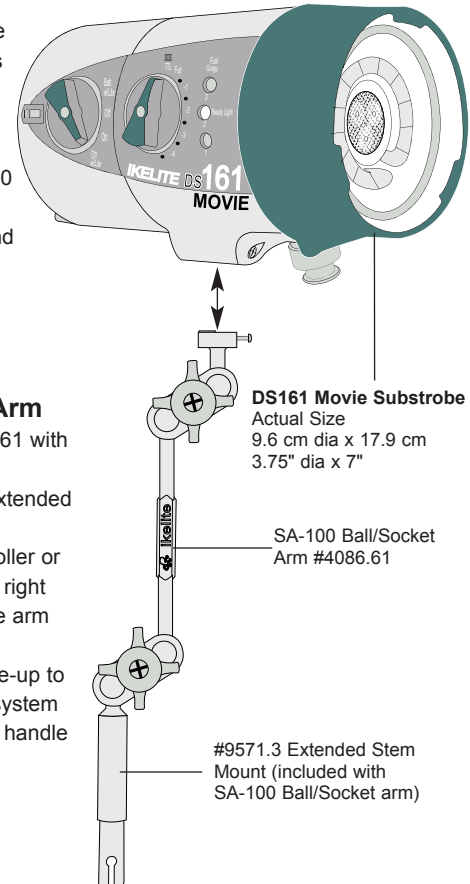
The deflector should be installed when using any Ikelite external strobe. The deflector will block and redirect the camera's flash to the AF35 slave unit or EV Manual Controller, which will then control the external strobe's output. The deflector also stops the built-in flash from creating backscatter in the image. Remove the diffuser before attempting to install the deflector.

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Using Strobes (continued)

DS161 (continued)

The DS161 flash covers the equivalent of an 18mm lens or 100 degrees w/diffuser installed. It is the ideal choice when using wide angle lenses greater than 80 degrees. It also features a 1.5 second recycle time and 225 flashes per full charge.



DS161 Movie Substrobe
Actual Size
9.6 cm dia x 17.9 cm
3.75" dia x 7"

SA-100 Ball/Socket Arm

The SA-100 system #4086.61 with its 1" diameter ball is ideal underwater. The #9571.3 extended stem mount allows easy attachment of the EV controller or flashlight mount, and drops right into the release handle. The arm system allows easy strobe placement from macro close-up to wide angle. The complete system removes with a push of the handle button.

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Recommended Strobe Packages

Substrobe AF35 AutoFlash Kit #4035 includes Single Tray.

Substrobe AF35 AutoFlash Kit #4035.1 includes Dual Tray.

Optional #9523.61 single or #9523.62 dual tray and handles are required for the attachment of DS-series strobes. The optional #9571.3 - **Page 12** features a 1" (2.5cm) ball for attachment to the top of the release handle. This provides a mounting point for Ultralight, TLC, and other non-Ikelite arm systems.

Substrobe DS51 Deluxe Package #3944.51 includes #4086.61 SA-100 Arm System with TTL sync cord. Requires Single Tray/Arm #9523.61 sold separately: **Page 16**.

Substrobe DS160 Package #3944.90 includes #4086.61 SA-100 Arm System with 1.5 hour Smart Charger and TTL sync cord. Requires Single Tray/Arm #9523.61 sold separately: **Page 16**.

Substrobe DS161 Package #3945.01 includes #4086.61 SA-100 Arm System with 1.5 hour Smart Charger and TTL sync cord. Requires Single Tray/Arm #9523.61 sold separately: **Page 16**.

NOTE: All current model DS-series strobes are fully compatible with the housing TTL system. Older DS50 or DS125 Substrobes may require circuitry updates. For circuitry requirements by serial number, click on the link in the External Underwater Strobes (Hard-wired TTL) section of the following Ikelite webpage: http://www.ikelite.com/web_two/pan_lx5.html.

Please Read If Using an EV Controller

TTL flash control is not available when using an EV Controller, and therefore an EV Controller is not recommended for use with this housing.

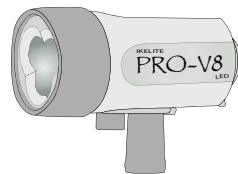
NOTE: Do not attach the housing hotshoe to the camera if using the EV Manual Controller. If the hotshoe is attached, the camera flash may not fire, which is necessary to trigger the external strobe.

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#6320 Pro-V8 LED Video Lite

For additional lighting when using the camera's movie mode and to aid in focus. For use with or without a color filter.

For more information go to the following web page:
http://www.ikelite.com/web_pages/3prov8.html



#6320 Pro-V8 LED Video Lite

External Accessory Lenses

An external wide angle conversion lens increases angle of coverage so you can get much closer to your subject while still fitting everything in the frame. By reducing the amount of water between the subject and your camera lens, the resulting image will be more crisp and colorful. Attach 67mm threaded #6420 Ikelite W-20, Inon Type II and Epoque wide angle or macro lenses directly to the front of the housing port. Bayonet mount lenses are not compatible with this housing.

Vignetting will be present with a wide angle lens attached. The camera must be zoomed several stops to eliminate vignetting. Addition of an Ikelite W-20 or comparable wide angle lens will gain approximately 15-20% angle of view after zooming.

NOTE: Only 67mm threaded Accessory and Conversion lenses can be used with this housing.

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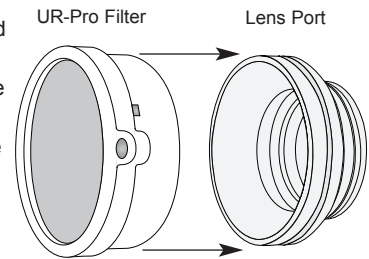
Non-Ikelite External Strobes.

Special sync cords are available to connect non-Ikelite strobes from Nikonos, Inon, and Sea & Sea. Non-Ikelite strobes can be used in manual modes only. Use of a non-Ikelite strobe bypasses the housing's built-in TTL circuitry.

Strobes with a slave feature can be triggered by the camera's flash or by an Ikelite Substrobe. An included flash deflector prevents the camera's flash from creating backscatter in the image.

External Color Filters

Color filters such as the UR-Pro Filter replace some of the reds, oranges and more natural tones that would otherwise be lost underwater. Effective in relatively shallow, sunny conditions. Available as #6441.41 for tropical blue water and #6441.81 for use in green water settings. For optimum results use in combination with manual white balance (see camera user guide for information on setting custom white balance). Not recommended when using external strobes.



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Optional Accessories & Spare Parts

Ikelite Lube #5020 (4 - 1cc tubes)

For light lubrication of the main housing o-ring.

Back o-ring #0109

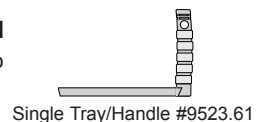
O-rings last for several years if properly maintained. (See Housing Maintenance section - **Page 17**). Always carry a spare o-ring in case the original becomes damaged or lost.

Travel Case #3920

This optional carrying case with foam will accommodate the housing with a single AF35 or DS51 strobe, single tray with handle and accessories.

Tray with Single Release Handle #9523.61

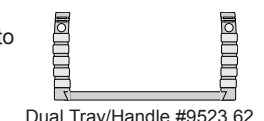
Single Tray and Release Handle is required to mount one external DS-series Substrobe.



Single Tray/Handle #9523.61

Tray with Dual Release Handles #9523.62

Dual Tray and Release Handles are required to mount two external DS-series Substrobes.



Dual Tray/Handle #9523.62

Replacement Lanyard #0321.10

Replacement Vinyl Port Cover #0200

UR-Pro Filter #6441.41 for tropical blue water

UR-Pro Filter #6441.81 for green water

NOTE: For complete information regarding recommended strobe packages and optional accessories go to www.ikelite.com.

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Housing Maintenance

The 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. **Do Not** leave the camera and housing in direct sunlight for prolonged periods. Heat may damage the camera.
2. **Do Not** ship the camera in the housing.
3. Before using the housing, always check the tightness each **control gland** penetrating the housing and the **set screw** in each control knob. There is a slight chance that either could vibrate loose during travel.
4. Keep the back o-ring clean and lightly lubricated. To lubricate, remove the o-ring from the back. Put a small amount of Ikelite lubricant on your fingers. Pull the o-ring through your fingers to apply a light coating of lubricant. Apply only enough lubricant to make the o-ring feel slick. **Do Not stretch the o-ring**. This light coating of lubricant will help to keep the o-ring from drying out and will help to show a dark sealing line when the housing back is properly sealed.
5. Keep the area where the o-ring fits and the sealing surface of the housing clean.
6. Rinse the housing exterior thoroughly in freshwater after each saltwater use. Dry with a soft cloth. Dry lens port to eliminate water spotting. After several uses in saltwater, soak the housing exterior in a mild soap solution, rinse and dry before storing. When storing the housing, remove the back o-ring, lightly lubricate, and place in a plastic bag. Place the plastic bag with o-ring inside the housing for safe keeping.
7. If removing a housing push button, **Do Not** re-use the E-clip. Contact Ikelite for replacement E-clips (part #0319.12).
8. Leave lid snaps in the open position when not using the housing for extended periods.

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Control Maintenance (continued)

3. Some of the controls have a short shaft and cannot be pulled out exposing the shaft for lubrication. In the unlikely event one of these controls sticks or becomes difficult to operate, you can remove the control from the housing and lubricate it, or return the housing to Ikelite for maintenance. To remove the control - **Diagram B**, loosen the set screw in the knob (allen wrench required); remove the knob. If there is salt or dirt build-up on the exposed control shaft, clean the shaft. Open the housing and gently slide the control shaft out of the control gland. Clean and lightly lubricate the shaft, including the end of the shaft. Slide the shaft back into the control gland and gently slide it back and forth a few times without fully removing the shaft from the gland. Replace the knob noting the flat area on the shaft. The set screw in the knob should tighten down against the flat area on the shaft so the knob does not turn on the shaft.

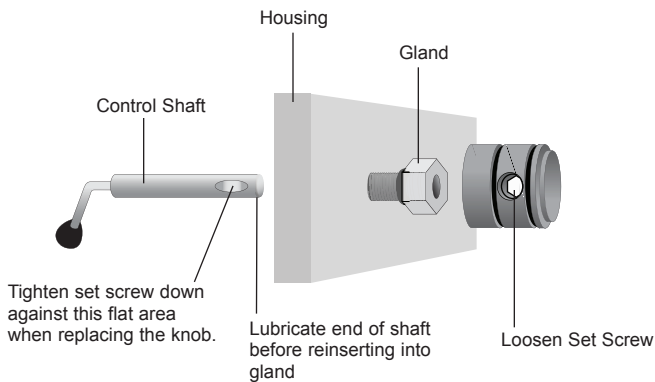


Diagram B

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Lubricants

1. Ikelite provides silicone lubricant with the housing. We recommend you use only Ikelite lubricant (included with housing - **Page 16**) on Ikelite products as some other brands may cause the o-ring to swell and not seal properly.
2. Use only enough lubricant to lightly cover control shafts and o-rings. Wipe off any excess lubricant with a clean cloth. Lubricant is not a sealant, it is used to reduce friction. Excessive lubricant can collect sand and dirt which may interfere with proper sealing.

CAUTION:

Never use spray lubricants as the propellant ingredient can cause the plastic housing to crack or o-rings to swell.

Control Maintenance

Ikelite controls are designed to provide years of reliable service with minimal maintenance.

1. Push button controls require no maintenance other than rinsing in freshwater after saltwater use. If a push button control becomes difficult to push or if it sticks when depressed, soak the housing in luke warm freshwater. After a few minutes, operate the push button. If this does not correct the problem, return the housing to Ikelite for maintenance.
2. Some of the controls have long shafts. These controls can be pulled out, exposing the shaft see **Diagram B - Page 19** and **Diagram C - Page 20**. To lubricate the control, gently pull on the knob until the stainless steel shaft is exposed. Lightly lubricate the shaft, then move the shaft in and out several times. This will lubricate the x-ring in the Ikelite control gland. This should be done before using the housing after a prolonged storage period, or once a week when the housing is in constant use.

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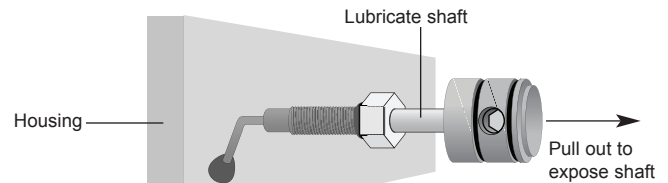


Diagram C

General Tips

1. Before placing your camera in the housing, it is a good idea to immerse the closed housing in a bucket or rinse tank to make sure it is watertight.
2. Due to the power required to operate the camera and LCD screen, it is a good idea to start each dive with a fully charged camera battery.
3. As soon as you enter the water, take a moment and check the housing to see that it is properly sealed.
4. Next, check to see if there are any bubbles on the face of the lens port. If there are, take your finger and remove them. If there are bubbles on the lens port they can produce soft focus spots in your photos or video. Treat the glass or acrylic in the lens port as a camera lens. After use, rinse and gently dry the lens port to avoid water spotting. To clean, use a mild soap solution or lens cleaner.

Do not use alcohol or window cleaner on the Lens Port.

NOTE: Fogging of the port glass/acrylic may occur due to a variety of environmental factors. To prevent fogging issues, always assemble the housing in a cool, dry area, such as an air conditioned room, and keep the housing out of direct sunlight. If fogging persists, insert a fresh desiccant packet inside the housing before each day of diving. Desiccant packages are not available from Ikelite, however most camera stores carry them.

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Photo Tips

1. The number one rule in underwater photography is to eliminate as much water between the camera and subject as possible. Get as close as you can to the subject, then use the zoom. If you are using flash for still photos, subjects beyond 6 feet (1.8m) will not have much color regardless of strobe power.
2. The camera's built-in flash is very close to the camera lens. The flash can light up any suspended particles in the water and they can be recorded in your picture. This effect is called backscatter. To eliminate as much backscatter as possible, photograph close or use an external strobe. Photograph in clear water; do not stir up the sand or silty bottom. If backscatter becomes a problem in the environment you are photographing, an external flash will help eliminate much of the backscatter.
3. Many digital cameras have a slight lag time between when you press the shutter release button and the camera actually takes the picture. Hold the camera steady a second or two after pressing the shutter release button.
4. Do not shoot down on subjects as they will quite often blend into the background and be difficult to see in the photograph. Shoot subjects straight on or shoot up at a slight angle using the blue water as a contrasting background.
5. Underwater flash is used to restore the warmer colors filtered out by the water as well as to illuminate the subject. When photographing underwater, set the camera to use flash on every shot. If the camera's flash is set to AUTO and the sun is behind your subject, the camera may see enough light and not fire the flash. With the sun behind the subject, the subject is shaded (dark) and needs flash for a good exposure.
6. When using daylight or flash, if your camera consistently over or underexposes the image, you may want to adjust your camera's exposure compensation settings.

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Ikelite Limited Warranty

All Ikelite products are warranted against any manufacturing defects for a period of one year from the original date of purchase. Defective products should be returned prepaid to Ikelite. Ikelite will, at its discretion, repair or replace such products, and will return to customer prepaid. All other claims of any nature are not covered. Housing is pressure tested and warranted to 200' (60m) maximum underwater depth. Except as mentioned above, no other warranty expressed or implied, applies to this Ikelite product.

Ikelite Technical Support

E-mail: ikelite@ikelite.com
Phone 317.923.4523
Fax 317.924.7988

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Photo Tips (continued)

7. Many photographers transfer their images to the computer where they can fine tune the appearance of the image. Many of the image manipulation programs make you think you can magically correct any image taken and make a good picture. Remember that when using an image manipulation program such as Photoshop, that if the image is overexposed, much of the color is missing. If the color is missing you cannot adjust it. If images are slightly underexposed, the color is there, but it is just dark and you can adjust it to some degree. So, if you error in exposure, it is better to have the image slightly underexposed rather than overexposed.

NOTE: To shoot photographs closer than 2 feet (0.6m), we recommend using an external strobe such as the DS51 or DS161. An external strobe can be positioned so nothing blocks the light path between the strobe and the subject.

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Returning Products for Service

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 e-mail correspondence, and/or instructions on what you want us to do. Always include name, shipping address, e-mail address, and phone number inside of the package.

You may also want to insure the package.

Send Postage Pre-Paid to:

Ikelite Underwater Systems
ATTN: Repair Dept.
50 West 33 Street
Indianapolis, IN 46208 USA

No reimbursements for return freight will be issued.

Returning Products for Service (outside the United States)

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.



Ikelite Underwater Systems
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