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.
# Table of Contents

**PREPARATION** ............................................................................................................. P. 3

**SPECIFICATIONS** - no camera installed ................................................................. P. 4

**INCLUDED in the BOX** ................................................................................................. P. 4

Parts of the Housing - Front View .................................................................................. P. 5

Parts of the Housing - Back View ................................................................................... P. 6

**HOUSING and CAMERA SETUP STEPS** ................................................................. P. 7

STEP 1 - Camera Setup .................................................................................................... P. 7

STEP 2 - Opening the Housing ....................................................................................... P. 8

STEP 3 - Install Camera in Housing ............................................................................... P. 8 - 9

STEP 4 - Attach Hotshoe ................................................................................................... P. 10

STEP 5 - Closing the Housing ....................................................................................... P. 11

STEP 6 - Entering the Water ........................................................................................... P. 12

Removing the Camera from the Housing ....................................................................... P. 13

**STROBE COMPATIBILITY and USE** ........................................................................... P. 14

Strobe Compatibility ....................................................................................................... P. 14

Electrical Sync Cord Compatibility ................................................................................ P. 14

Fiber Optic Cord Compatibility ..................................................................................... P. 14

Housing Conversion Circuitry ........................................................................................ P. 15

Using Ikelite DS-series Strobes ..................................................................................... P. 15

Using Non-Ikelite or Ikelite Non-DS-series Strobes .................................................... P. 15

Attach Ikelite Sync Cord to the Housing and Strobe ................................................... P. 16

Using Fiber Optic Strobes .............................................................................................. P. 17

Using the Camera’s Built-in Flash .................................................................................. P. 17
This product has been water pressure tested at the factory and is depth rated to 200 ft (60m). Thoroughly inspect and immerse the empty housing completely in water before installing a camera. If any fogging occurs or droplets of water enter the housing, do not install a camera. Clean the main housing o-ring and retest to make sure that the housing is watertight. Refer to the Troubleshooting section, page 26. 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 Photo Tips section, page 25.
SPECIFICATIONS - no camera installed

• 200 ft (60m) depth rating
• Controls for all camera functions except Framing assist-seek button, Manual focus button, Zoom lever, Front control ring Ikelite flash bulkhead connector with built-in TTL circuitry
• Two 1/4-20 threaded tray mounts with 3-inch (76mm) spacing
• Ikelite bulkhead connector with built-in TTL circuitry
• Slightly negative buoyancy in fresh water. Actual buoyancy varies depending on choice of lens and port.
• Weight 3.35 lb (1.5 kg)
• Dimensions 7.2 x 6.5 x 6.0 in (182 x 165 x 152 mm) including projections
• 3.0-inch diameter glass lens port
• ABS-PC, acrylic, and acetyl construction

INCLUDED in the BOX

• Housing
• Port Cover
• Waterproof Bulkhead Cap (connected to external strobe connector)
• Accessory Package (includes 1cc silicone lube and extra control tips)
1. (Mobile Device Connect) Button
2. Shortcut Button
3. Single Erase Button
4. AF Frame Selector Button
5. Playback Button
6. MENU Button
7. ISO / Center Button
8. Macro / Left Button
9. Q.SET Button
10. Flash / Right Button
11. Drive Mode / Down Button
12. DISP. Display Button
13. Control Dial
Step 1 - Initial Camera Setup

1. Insert a fully charged camera battery
2. Insert and properly format a memory card.
3. Set Mode Dial to “Av” or “M.”
4. Review image after shooting to “4 sec.”
5. Set AF operation to “ONE SHOT” and AF method to “1-point AF.”
6. Set Continuous AF and AF-assist beam to “Off.”
7. Set ISO to “200.”
8. Set Light Metering to “Center Weighted Avg.”
9. In Flash Control: Set Flash mode to “Auto” and Red-Eye Lamp to “Off.”
10. Set Power Saving - Auto Power Down to “Off.”
11. Set Time Zone, Date/Time.
12. Set Touch Operation to “Disable.”
13. Set White Balance to “AWB.” Always use auto white balance (AWB) when using a strobe/flash. When recording video, AWB can still be used, but for more accurate and consistent colors we recommend setting “Custom White Balance”.
14. Set AF Frame Selector to the center of the LCD screen.

- Camera settings not mentioned should be set to the user’s preference.
- Some settings may change based on your shooting environment.
Step 2 - Opening the Housing

Lid Snaps have a **Lock**.

1. Push Lid Snap Locks forward and lift as shown. Open opposing Lid Snaps simultaneously. Keep pressure on the Lid Snaps so they do not fly open quickly. Some Lid Snaps have a lot of spring tension once they go over center, so keep a firm grip on each Lid Snap. Lid Snaps may also be opened one at a time.
2. Remove the Housing Back.

Step 3 - Install Camera in Housing

1. Make sure the camera battery is fully charged and a SD memory card is inserted into the camera. **Save existing photos on a separate storage device before formatting SD Card.**
2. Pull top housing control knobs up for more clearance.
3. The Mounting Plate is secured to the inside bottom of the housing. The camera Mounting Tray slides into the Mounting Plate. Use your index finger and thumb to pull the Mounting Tray away from the Mounting Plate, **Diagram A, page 9**. Use your other thumb to apply opposite pressure against the bottom of the housing to assist in removal of the Tray if necessary.
4. Using a coin or flat head screwdriver (preferred), secure the camera Mounting Tray to the camera tripod mount, **Diagram B**. Tighten camera firmly to avoid movement on tray. The Mounting Tray only attaches one way with the Mounting Tray Tab to the back of the camera.

   An additional 1/4-20-inch tray hole allows attachment to a land tripod stand.

5. Gently slide the camera with Mounting Tray back into the Mounting Plate, **Diagram C, page 10**. Using your thumbs, push against the Mounting Tray until it stops sliding forward into the Mounting Plate. Give the Tray an extra push to make sure it is properly seated all the way forward in the Mounting Plate and no housing controls are in the way.
Step 4 - Attach Hotshoe

1. Make sure contact points are clean.

2. Slide the Hotshoe into the camera mount with the top arrow facing towards the front of the camera.

3. Push the Hotshoe forward until it stops. The Hotshoe must be pushed all the way forward in order to make proper contact with the camera and provide TTL operation.

Diagram C

- Hotshoe - push all the way forward into the camera mount
- Push Camera and Mounting Tray all the way forward into Mounting Plate
Step 5 - Closing the Housing

1. Make sure the o-ring is clean and in its proper location on the back of the housing.

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 lid snaps simultaneously toward the housing front until they are flat against the housing and the lock has engaged.

6. Check the o-ring seal. The o-ring should form a solid uniform line around the back of the housing, denoting a good seal. There will be a small even gap around the housing between the housing back and front.
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. As soon as you enter the water, take a moment and check to see that the housing is properly sealed. Using your finger, wipe away any air bubbles on the face of the lens port. If possible, first water test the housing with no camera inside to assure a safe and watertight environment.
Removing the Camera from the Housing

1. Thoroughly dry housing.
2. Remove the housing back, see Step 2, Opening the Housing, Page 8.
3. Loosen and remove the Hotshoe from the camera mount.
4. Pull on the Mounting Tray Tab with your thumb and index finger. Slowly and gently pull the camera backward to separate from housing, Diagram D. Continue pulling the camera backward and remove from housing. We recommend doing this procedure on a desktop or solid flat surface to avoid dropping the camera.

If you are finished using the housing, remove the Mounting Tray from the camera bottom and slide it back into the Housing Mounting Plate. For storage and travel, remove the back o-ring and place in a small plastic bag. Place the bag inside the housing and reattach the housing back.

**Note:** The camera MUST be removed from the housing when changing a camera battery or SD card.

Diagram D

Gently pull backward on the Mounting Tray Tab to remove

Mounting Tray Tab
STROBE COMPATIBILITY and USE

Strobe Compatibility

- AF35 ........................................ not compatible
- DS50 ........................................ yes, above serial number 70000
- DS51 ........................................ yes
- DS125 ...................................... yes, above serial number 5000
- DS160, DS161 ......................... yes
- DS200 ...................................... yes, above serial number 7163
- Non-Ikelite .................. yes (in most cases), manual flash exposure only

Electrical Sync Cord Compatibility

- Ikelite-to-Ikelite TTL Sync Cord (TTL) Product 4103.51
- Ikelite-to-Ikelite TTL Dual Sync Cord (TTL) Product 4103.52
- SEA&SEA / INON Strobe-to-Ikelite Non-TTL Sync Cord (Manual) Product 4118.1
- SEA&SEA / INON Strobe-to-Ikelite Non-TTL Dual Sync Cord (Manual) Product 4118.2
- Nikonos SB Strobe-to-Ikelite Non-TTL Sync Cord (Manual) Product 4116.31
- Nikonos SB Strobe-to-Ikelite Non-TTL Sync Cord (Manual) Product 4116.32

Fiber Optic Cord Compatibility

- Ikelite 4501 Fiber Optic Coiled Cord
- INON Optical D Cable “Non-wireless type” L-Connector
- Sea&Sea Fiber Optic Cable (L-type) Product No. 50107
- Olympus UW Fiber Optic Cable PTCB-E02
- Nauticam Optical Fiber Cable No. 26211 Nauticam to INON
- Nauticam Optical Fiber Cable No. 26212 Nauticam to Sea&Sea
**Housing Conversion Circuitry**

This housing has integrated Ikelite designed Conversion Circuitry. The Circuitry provides real TTL flash exposure when used with Ikelite DS-series strobes. The Circuitry is automatically activated once a DS-series strobe is attached to the housing and turned on. Once attached, turn the strobe on first before turning on the camera. The circuitry cannot be powered up or used by non-Ikelite strobes.

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**Using Ikelite DS-series Strobes**

Set your DS-series strobe to “TTL.”

TTL flash exposure compensation is done in the camera’s shooting menu under “Flash Control.”

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**Using Non-Ikelite or Ikelite Non-DS-series Strobes**

The Conversion Circuitry is automatically disabled when used with a non-Ikelite or non-DS-series Strobe. These Strobes can be used in their manual mode utilizing any power settings provided on the Strobe. To attach a non-Ikelite strobe to the housing, select the proper sync cord p. 14.
Attach Ikelite Sync Cord to the Housing and Strobe

The Ikelite Housing and Strobe Bulkheads are designed to accept sync cords with Ikelite 5 pin connector fittings.

1. Lightly lubricate the Sync Cord O-rings. Use ONLY Ikelite lubricant (supplied with housing). Other lubricants may cause the o-rings to swell and seal improperly.

2. Remove Bulkhead Caps from Housing Bulkhead and Strobe Bulkhead.

3. Line up the Sync Cord Pins with the corresponding Bulkhead Receptacles. Gently insert Sync Cord ends into each Bulkhead. Either Cord End may be attached to a component. DO NOT force this installation. If the Sync Cord does not seat properly inside the Bulkhead, then the Pins and Receptacles are improperly aligned (repeat Step 3).

4. Tighten the Knurled Nuts snugly using your Index finger and thumb. DO NOT use pliers or other tools to tighten the Knurled Nuts.

*Always remove the Sync Cord from your Housing and Strobe when not in use and replace the Bulkhead Caps.*
Using Fiber Optic Strobes

1. Attach Fiber Optic Cord(s) to the housing Fiber Optic Port(s) next to the housing port, page 5.
2. Extend camera flash.

Using the Camera’s Built-in Flash

The built-in camera flash can only be used to trigger fiber optic strobes. Due to the opaque housing design, the flash alone will NOT illuminate subjects underwater.

RECOMMENDED ACCESSORIES and ATTACHMENTS

Optional Tray + Release Handle 9523.63

The optional aluminum tray with release handle comes with the necessary hardware to mount to your Ikelite housing.

Optional Tray + Dual Handles 9523.64

Attaching an optional Tray + Dual Handles will add stability and gripping point(s) for comfortable use of the housing. Add a second strobe to eliminate shadows and evenly light your subjects.

Go to ikelite.com for a complete list of accessories for your housing.
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. **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.

Visit [ikelite.com](http://ikelite.com) for an updated list of factory optional accessories.

**Spare Parts - available through Ikelite or any Ikelite Dealer**

- 0110 Main o-ring
- 9104.5 Waterproof bulkhead cap
- 0200 Port cover
- 0184.2 Silicone lubricant 2cc reclosable tube

**Maintenance**

**Lens Port**

Treat the glass in the lens port as 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. It is NOT necessary to remove the Port for cleaning. Do not rinse the inside of the Port.

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

**O-ring Storage**

When storing the housing, remove the main housing o-ring. Lightly lubricate the o-ring until it appears shiny and place in a small resealable plastic bag. Use only Ikelite lubricant. Place the bag inside the housing and store until needed.
Lubricant

Ikelite provides silicone lubricant with the housing. We recommend you use **only** Ikelite lubricant on Ikelite products. Other brands may cause the main housing o-ring to swell and not seal properly. Use only enough lubricant to lightly cover the main housing o-ring or lubricate a sticky control. 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.

Housing Maintenance

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.

- **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.
- Before using the housing, always check the tightness of the set screw in each control knob. Check each control gland penetrating the housing to make sure they are tight. There is a slight chance that either could vibrate loose during travel.
- Keep the main housing 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 thin coating of lubricant. Only apply 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.

- Keep area where the o-ring fits and sealing surface of the housing clean.
- Rinse the housing exterior thoroughly in fresh water after each saltwater use. Depress push buttons repeatedly in fresh water to eliminate trapped saltwater. 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.
- If removing a housing push button, Do Not re-use the E-clip. Contact Ikelite for replacement E-clips (part 0319.12).
- Leave lid snaps in the open position when not using the housing for extended periods.
- Always disassemble and clean optional Tray/Handle(s) before storage.
Ikelite controls are designed to provide years of reliable service with minimal maintenance.

Push button controls normally require no maintenance other than rinsing in freshwater after saltwater use. Depress each push button in fresh water several times to eliminate trapped saltwater. If a push button control becomes difficult to push or if it sticks when depressed, soak the housing in luke warm 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 you are on a trip and unable to return the housing immediately, a push button may be lubricated by pressing and holding the push button all the way in. Then, use your finger or other small non-metal object to place a small amount of lube at the base of the shaft inside the housing.

Press and release the push button several times until the lube is worked up into the o-ring. After completing this procedure, close the housing and submerge it in water without the camera inside.

Check the control for watertightness.
Control Maintenance - continued

In the unlikely event one of the control shafts 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.

Your housing may feature both **round** and **hex** style control glands. To remove a control in a round style gland, **Diagram J, page 24**, loosen the set screw in the knob (hex head 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 and o-rings, including the large end of the shaft.

If there is a shutter spring on the Control Shaft, make sure it is in its proper position. Rotate the Shaft back and forth slightly to aid installation back into the Control Gland. Replace the knob with the Set Screw over the Control Flat. The Set Screw in the knob should be tightened down against the flat area on the Control Shaft so the knob does not turn on the shaft.

- Some of the controls have long shafts and feature a **hex** style control gland. These controls can be pulled out, exposing the shaft, **Diagram K, page 24**. 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.
- 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 L, page 24, loosen the set screw in the knob (hex head 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 the shaft 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 control, so the knob does not turn on the shaft. Close housing without a camera inside and water pressure test in a bathtub or swimming pool. Rotate* the knobs to make sure the housing is watertight and the gland was installed properly. Check all controls while the housing is submerged.

⚠️ Caution: If your housing has a shutter spring, DO NOT rotate the shutter control more than 1/16th of a rotation, otherwise, you may accidentally bend the shutter spring or cause the spring to “pop off” the control shaft.
Control Maintenance - continued

Diagram J

Lubricate end of shaft before reinserting into gland

Tighten set screw down against this flat area when replacing the knob

Diagram K

Pull out shaft to expose shaft

Tighten set screw down against this flat area when replacing the knob

Diagram L

Lubricate end of shaft before reinserting into gland

Loosen Set Screw (Hex Head Wrench Required)

Loosen Set Screw (Hex Head Wrench Required)
- 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 ft (1.8m) will not have much color regardless of strobe power.

- 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 or small floating debris in the water which reflects light.

- 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 housing steady a second or two after pressing the shutter release button.

- 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.

- When using daylight or flash, if your camera consistently over or underexposes the image, you may want to adjust your camera’s exposure compensation or flash exposure compensation settings.

- 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.

- 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, they should not touch, lie on, or in any way disturb the things they find underwater.
<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
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</table>
| Push buttons or controls are sticky or hard to operate | - Remove the camera and rinse the closed housing in fresh water. Vigorously press each push button in and out several times to release any trapped saltwater or debris.  
- Press a sticky push button all the way in and place a small amount of lube on the small end of the push button shaft at it’s base. Release and depress the push button several times to distribute the lube, **Diagram I, page 21**.  
- If a larger gland style control is sticky, grab the control knob, pull it out, and then push back in. If still sticky, see the Control Maintenance section, **pages 21-24**.  
- Return housing to Ikelite for routine maintenance. |
| Image is over/underexposed, or a corner of the image is dark | - Check that the built-in flash or external strobe is firing when taking a picture. Camera flash should be forced “on.”  
- When using an external strobe, make sure it is turned on, set properly, and its battery is charged.  
- Check any corded connection points.  
- Change camera shutter speed or aperture.  
- Move closer to or further away from the subject.  
- Adjust Exposure Compensation ‡.  
- Adjust Flash Exposure Compensation ‡‡. |
<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
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</table>
| Camera does not take a picture      | - Install a fully charged battery.  
- There is not enough available light for the camera to properly focus. Add a focusing light or strobe with a built-in focusing or video light to your system.  
- Select a center focus point in your camera menu. |
| Housing is hard to close            | - Make sure the camera is mounted properly in the housing and controls/cord are out of the way.  
- Main housing o-ring is not seated properly. |
| Fogging occurs on the Lens Port    | - Humid air is trapped inside the housing.  
The camera produces heat and may condense any trapped moisture forming fog on the lens port. Close the housing in an air-conditioned room or vehicle, or in front of an air-conditioner.  
- The housing should not be in direct sunlight for an extended period of time.  
- Purchase desiccant packs also known as moisture munchers from a local camera store. Place one or two new packs in your housing before each day of diving.  
- If moisture or water droplets are present around the controls or sealing areas, return the housing to Ikelite for evaluation.  
- Clean the main housing o-ring and sealing surface of the housing |
<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pictures are too blue or too green</td>
<td>- Move in closer to your subject when taking a picture.</td>
</tr>
<tr>
<td></td>
<td>- Strobe is not firing. Check corded connection points.</td>
</tr>
<tr>
<td></td>
<td>- Use custom manual white balance. Reset for each working depth or when attaching a color correcting filter to the camera lens.</td>
</tr>
<tr>
<td></td>
<td>- Add an external strobe when NOT using a color correcting filter.</td>
</tr>
</tbody>
</table>
CUSTOMER SUPPORT

Please read the troubleshooting section of this instruction manual before contacting Ikelite Customer Support.

Ikelite Underwater Systems
Service Department
50 West 33rd St.
Indianapolis, IN 46208 USA

Email:ikelite@ikelite.com

Phone: 317-923-4523
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.
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 email correspondence, and/or instructions on what you want us to do. 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 33 Street  
Indianapolis, IN 46208 USA

No reimbursements for postage paid will be issued. You may also want to insure the package.

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.
PRODUCT REGISTRATION

Please go to ikelite.com to register your Ikelite housing within 15 days of purchase.

Ikelite Underwater Systems
50 West 33rd Street
Indianapolis, IN 46208 USA

ikelite.com

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