ikelite

Underwater Housing for Canon Powershot SX620 HS

Product Number 6242.62

Product Registration

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

About this Product

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

Included in the Box

- O-ring # 0132.45 (installed)
- Port cover # 0200.08 (installed)
- Lanyard # 0321.10
- Silicone lubricant

Specifications

- 200 ft (60m) depth rating
- Controls for all camera functions except Flash pop-up switch; flash may be opened prior to installation of camera in the housing
- Slightly positive buoyancy in fresh water
- 1/4-20 thread tray mounting with 3" (76mm) spacing
- 1.6 lb (726 g)
- 6.2 x 5.3 x 4.5" (158 x 135 x 114 mm)
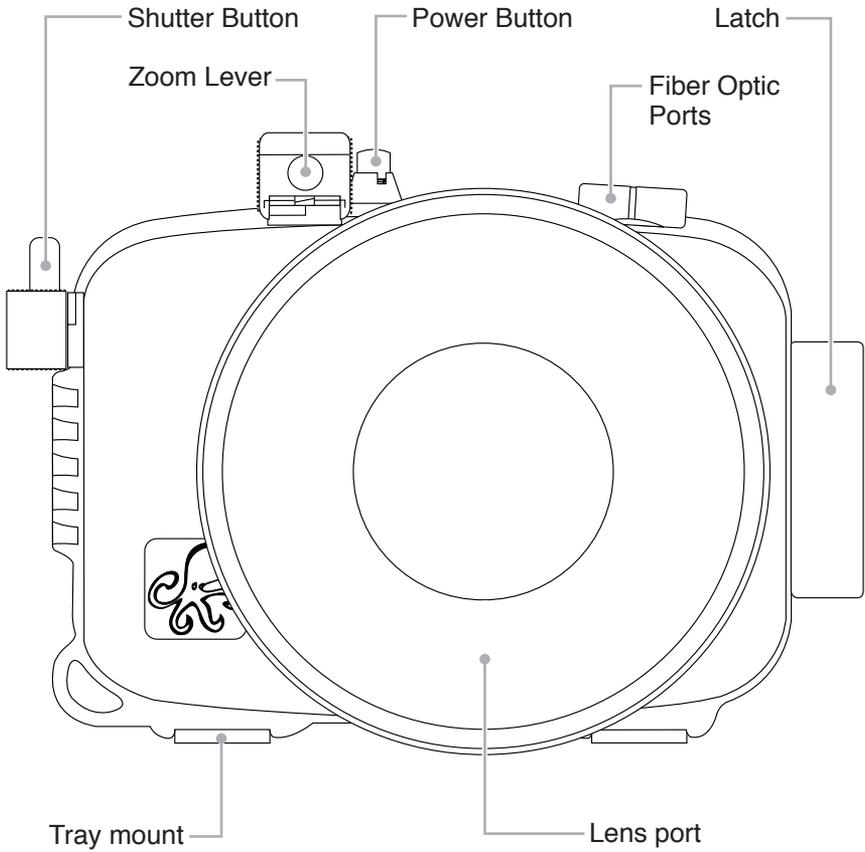- 3.9" diameter glass lens port

Important Notices

- » **To prevent salt build-up and sticking controls, submerge the empty housing in clean, freshwater. Operate the controls several times each while underwater to flush out any residue.**

- » **Never leave a housing in a rinse tank, even if it is the only system in the tank. Many catastrophic floods happen 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.**

- » **Always assemble in a cool, dry location. Opening the housing in a humid environment will lead to fogging.**

- » **This housing is designed for use with the Canon SX620 HS camera as shipped by the manufacturer. This housing is not compatible with any other camera models.**
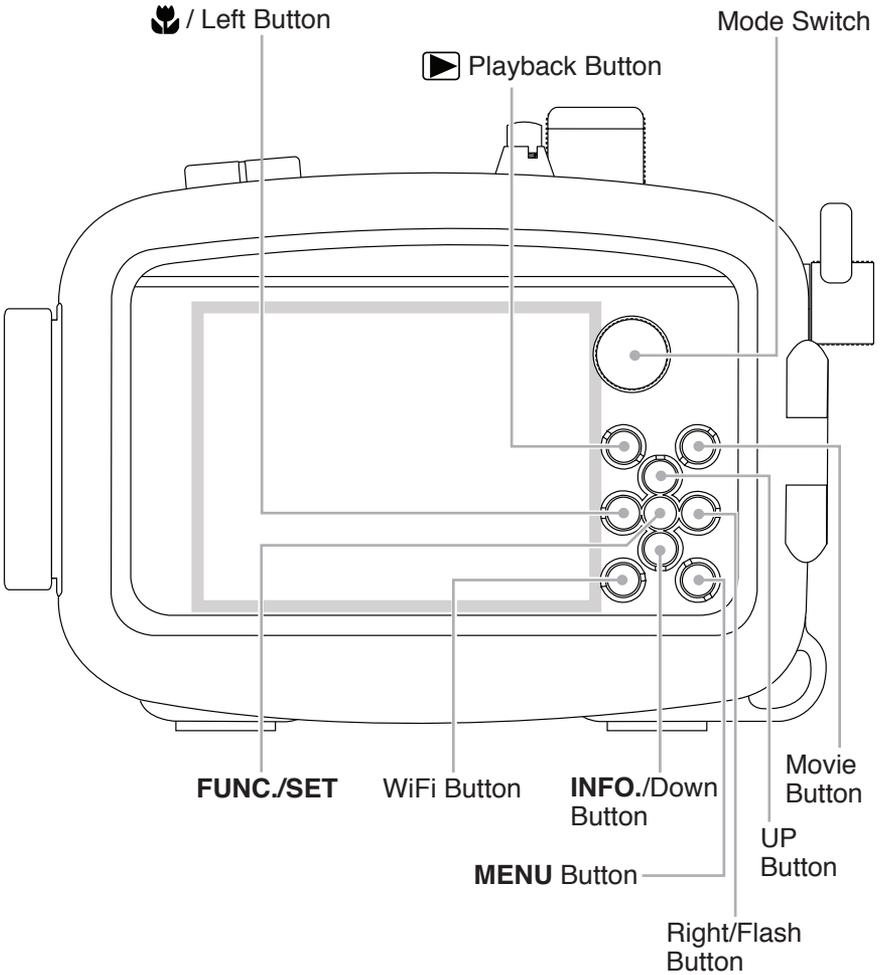
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Getting to Know Your Housing - continued

♥ / Left Button

▶ Playback Button

Mode Switch

FUNC./SET

WiFi Button

INFO./Down Button

Movie Button

MENU Button

UP Button

Right/Flash Button

Setting Up Your Camera

Pre-Installation Checklist & Initial Camera Settings

1. Fully charge camera battery.

2. Insert and format an SD card.

3. Set shooting mode to "P" Program and ISO to "200."

4. Set White Balance to "AWB." When not using an external strobe, AWB can still be used, however, for the most consistent colors in different lighting, use "custom white balance" ⊾◻⊿ .

5. Set Light Metering to "Center Weighted Avg."

6. RAISE camera flash to trigger a Fiber Optic Strobe. CAUTION: ⚠ Camera flash CANNOT be raised after camera is closed inside housing.

7. Set Flash Mode to " ⚡" when connecting housing to a fiber optic strobe.

8. Set AF Area to the "Center" and AF Frame Size to "Normal."

9. Set Continuous AF to "ON" and AF-assist Beam to "OFF."

10. In Flash Settings, set Red-Eye Lamp to "Off."

11. Set Review Image after shooting to "4 sec".

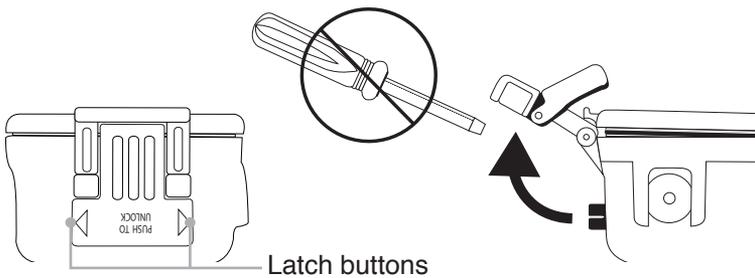**12.** In Power Saving, set Auto Power Down to "On" and Display Off to "3 min)."

Recommended initial settings are not ideal for every shooting situation and should be adjusted as necessary.

Settings not mentioned should be set to the user's preference.

Setting Up Your Housing

Opening the Housing

1. Thoroughly dry the housing if wet. To reduce the likelihood of fogging, only open the housing in a cool, dry place. If possible, open only in an air conditioned room.

2. Depress both latch buttons and rotate the latch away from the housing.
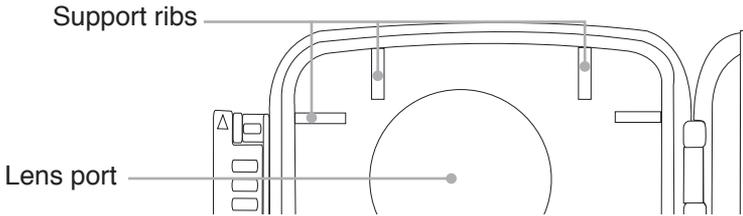

Latch buttons

3. The back of the housing will be compressed by pressure after taking it underwater or in an airplane. Rotate the latch FULLY to break the seal of the housing.

4. Lift the latch up and away from housing.

5. Carefully open the housing back and rotate it 180º to the opposite side of the housing. Do not use metal objects or tools to pry the back open, as this may damage the o-ring or sealing surface.

Installing the Camera

1. Remove adhesive backing from anti-reflection ring. Attach ring to front of camera lens.

2. Remove any lanyard, neck strap, or accessory attached to the camera.

3. Pull out any camera control knobs until they stop.

4. Place the camera into the front of the housing with the lens centered in the lens port.

5. Make sure the camera is sitting flat in the housing and flush to the front support ribs.

Support ribs

Lens port

Closing the Housing

1. Clean and lightly lubricate the housing o-ring. Use Ikelite lubricant ONLY. Use only enough lubricant to make the o-ring appear uniformly shiny. Lubricant is not a sealant. Excessive lubricant may attract debris and adversely affect the seal.

2. Rotate the housing back 180º until it meets the front.

3. Latch the housing back and press the latch towards the housing until the lock buttons click into place.

4. Check the latch. The buttons will not be depressed when the latch is properly locked. Pulling on the latch without pressing the buttons should not allow the latch to open.

Setting Up An External Strobe
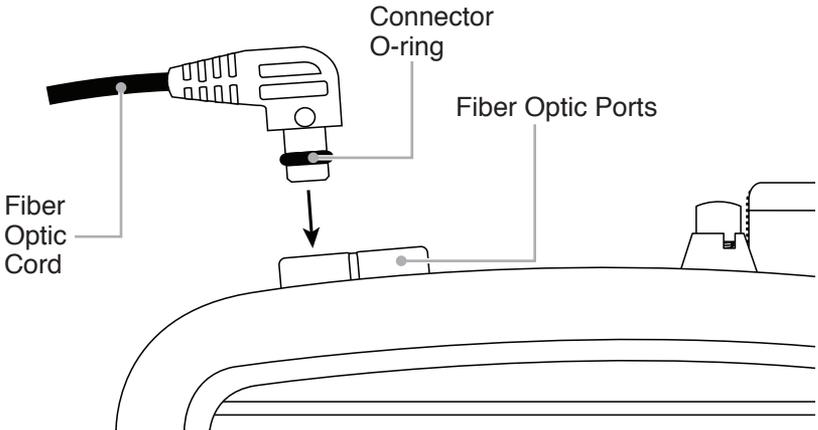
About the Built-In Flash

Due to the opaque housing design, the internal "built-in" flash can only be used to trigger external fiber optic strobes. To shoot flash photography underwater, an external strobe must be connected to the housing and then triggered by a fiber optic cord. The camera flash must be RAISED and activated in order to fire an external strobe.

We recommend attaching an external strobe for optimal color and clarity in a wide variety of shooting situations, including daylight photography.

Attaching a Fiber Optic Cord

1. Check the end of the fiber optic cord to ensure that it is clean and smooth.

2. Ensure that the fiber optic cord o-ring is in place. This o-ring does not provide waterproofing, however, it does keep the fiber optic cord in place.

3. Attach one end of the fiber optic cord into one of the fiber optic ports on the top of the housing. The Connector is a press-fit into the fiber optic port. A second connector can be placed into the open fiber optic port to activate a second strobe.

Connector
O-ring

Fiber Optic Ports

Fiber
Optic
Cord

4. Attach the other end of the fiber optic cord(s) to a compatible strobe(s).

5. Set the strobe(s) to the appropriate setting based on manufacturer recommendations.

6. Turn the strobe(s) on.

Final Check

1. Re-check the o-ring seal. The seal should form an even, solid line around the back of the housing.

2. Turn on the camera and check all control functions.

3. Make sure that the camera can obtain focus and take a photo.

4. Take a test photo to ensure that your strobe(s) are functioning properly.

5. Check battery life and open storage space on your memory card.

6. Submerge the housing in a fresh water tank dedicated to underwater photography equipment. Visually confirm that there are no signs of water intrusion or a steady stream of bubbles coming from one of the housing seals.

Entering the Water

1. If possible, we recommend entering the water without your housing to ensure that you are comfortable and your life-saving equipment is in working order. Once you are stable, have someone pass your camera housing to you.

2. 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.

3. As soon as you enter the water, take a moment and check to see that the housing is properly sealed. If possible, first water test the housing with no camera inside to assure a safe and watertight environment.

4. Submerge the housing at the surface of the water and visually confirm that there are no signs of water intrusion or a steady stream of bubbles coming from one of the housing's seals. If water does appear to be entering the housing, point the lens port downward and return the housing to the surface as quickly as possible. Please observe all necessary safety precautions. NEVER ascend faster than accepted safety limits.

5. 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.

Maintenance

Post-Dive

1. Rinse the housing in fresh water. Rotate the housing controls and press each button while submerged in fresh water to flush out any salt or debris. This will ensure smooth operation on future dives.

2. NEVER leave your housing in a fresh water rinse tank. Collisions with other equipment can cause scratches or damage to your equipment.

3. Stow the housing in a shaded place where it is protected from impact or overheating. If no shade is available, we recommend covering the housing with a towel or cloth.

4. Check the memory card capacity and battery life of your camera and strobe(s). Recharge as necessary.

5. Always recheck the main o-ring seal after opening the housing.

Travel and Storage

1. Remove the camera from the housing for travel or storage.

2. Check the main housing o-ring.

3. Close the empty housing and submerge in lukewarm fresh water. While submerged, rotate each control and depress each button to flush out any salt or debris.

4. Remove the housing from water and rinse with running water.

5. Do not rinse the inside of the housing or submerge the open housing in water. If the inside of the housing needs to be cleaned, wipe with a clean, slightly damp cloth.

6. Dry the housing with a clean, lint-free cloth.

7. Store in a cool, dry place.

8. Like regulators and other pressure-sensitive equipment, we recommend careful care and cleaning along with annual replacement of the factory seals.

Troubleshooting

Water enters the housing

- Re-clean and re-install the main o-ring.

- Take the housing underwater without a camera installed to ensure that the leaking has been corrected.

Photos are over-exposed (too light)

- Adjust aperture (smaller or ISO (lower) setting.

- Move lights(s) farther away from your subject.

- Adjust exposure compensation in the camera.

- Adjust lighting power.

Photos are under-exposed (too dark)

- Adjust aperture (larger) or ISO (higher) setting.

- Move light(s) closer to your subject.

- Adjust exposure compensation in the camera.

- Adjust lighting power.

Strobe will not fire

- Turn on strobe.

- Make sure that the camera's flash is set to fire on every photo.

- Check that the fiber optic cord is properly attached.

Buttons are stuck

- Soak the housing in lukewarm fresh water. Depress each button several times while the housing is submerged.

- Apply lubricant to the button. Press the button several times to distribute the lubricant.

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

- Ensure that nothing is preventing the camera from going completely into the housing.

Camera is not functioning normally underwater

- Ensure that the camera mounting plate is pushed all of the way into the housing mounting plate.

- Check each housing control while underwater to ensure that they engage properly. An inadvertently engaged control may limit functioning of the camera.

Backscatter or "snow" in images

- Position strobes or lights farther away from your lens and at a slight angle away from the camera lens.

- Avoid using strobes in extremely low-visibility conditions.

Limited Warranty

This Ikelite product is warranted against any manufacturing defects for a period of two (2) years from the original date of purchase. Defective products should be returned to Ikelite postage paid. Ikelite will, at its sole discretion, repair or replace such products, and will return to customer postage paid. All other claims of any nature are not covered. Except as mentioned above, no other warranty expressed or implied applies to this Ikelite product.

Service and Repairs

Ikelite is most interested in performing any service to ensure that all products perform as intended. Evidence of purchase date must be provided to obtain warranty service. No prior authorization is required. You may return directly to us or through your dealer. Please include a brief description of the problem, any relevant email correspondence, and/or description of the service request. Always include name, shipping address, email address, and phone number inside the package. Send postage paid to:

Ikelite Underwater Systems
Attn: Service Department
50 West 33rd Street
Indianapolis, IN 46208 USA

Contact Us

If you have any questions about your product or need advice on getting the images you want, please contact us and we'll do everything

we can to help you capture your unique perspective.

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