



Digital Housing
i n s t r u c t i o n m a n u a l

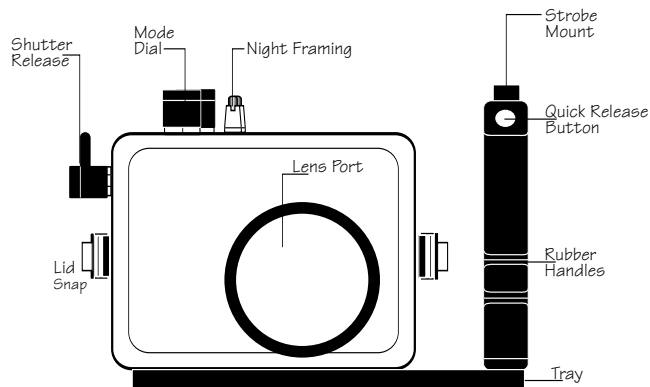
for
Sony
DSC-V3

Housing
#6110.93

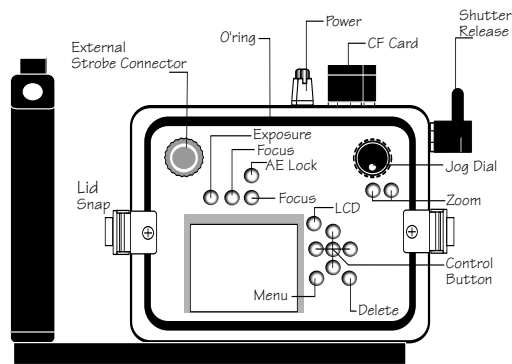
Ikelite Digital Housing

instruction manual

Housing #6110.93 for Sony DSC-V3



FRONT VIEW



BACK VIEW

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Congratulations on your purchase of an Ikelite Digital Camera Housing. Ikelite has over 30 years of experience in the underwater photographic and lighting market. Our products are designed and built in the USA by Ikelite for both the professional and amateur photographer.

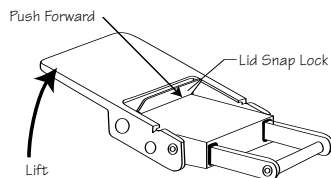
The clear housing permits instant visual inspection of the camera and all sealing surfaces as well as complete monitoring of controls and camera LCD screens.

Ikelite Digital Housings are slightly negative in salt water for stability. This housing has been water pressure tested at the factory. Housing is pressure tested to 200' (60m).

Opening the Housing

Lid Snaps have a **Lock**. To open, push Lid Snap Lock forward and lift as shown. Keep pressure on the Lid Snap so it does not fly open quickly.

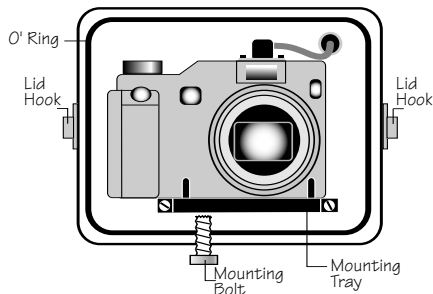
Some lid snaps have a lot of spring tension once they go over center, have a firm grip on the lid snap. Lid Snaps may be opened one at a time.



Installing the Camera

Install a fully charged battery into the camera before securing the camera to the housing's mounting tray.

Remove the back from the housing. The mounting tray for the camera is secured to the housing back. Position the camera on the tray and secure it with the mounting bolt which threads into the camera's tripod socket.

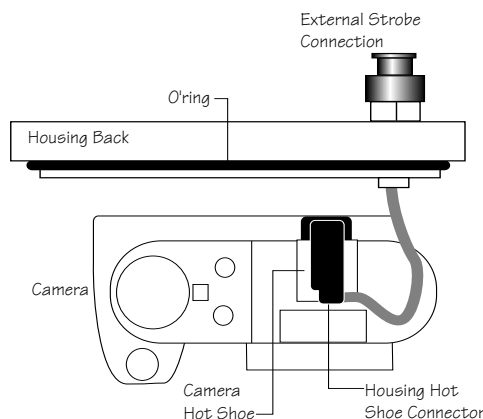


CAUTION:

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.

Flash Connection

When using an external strobe connect the housings Hot Shoe Connection, slide the connector into the hot shoe of the camera from the back as shown. Slide the connector forward until it stops. This can be done after the camera is mounted to the mounting tray.



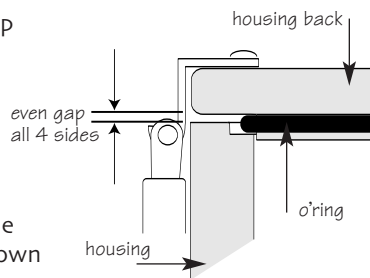
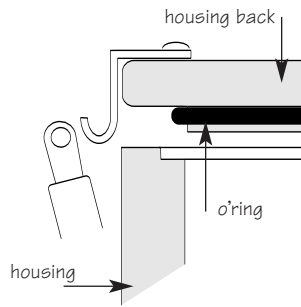
Only remove the External Strobe Connector's waterproof cap when a sync cord is going to be connected.

Installing Camera in Housing

When installing the camera into the the housing, pull up on the CF Control in the housing front so it clears the camera. You may have to turn the CF Control to clear the Mode Dial on the top of the camera during installation.

Closing the Housing

1. Place housing face down in your lap.
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 onto the housing. 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 the lid snap into the 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.

Check the gap between the housing back and the housing, it should be even all the way around.

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, reseal the housing back and close the lid snaps. Visually check the seal again.

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Lubricants

1. Ikelite provides silicone lubricant with the housing. We recommend that you use only Ikelite lubricant 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.

Optional Accessories

Back O'ring #0110

O'rings last for several years if properly maintained. (See Maintenance) Always carry a spare o'ring in case the housing o'ring becomes damaged or lost.

UR/Pro Filter #6441.41

The UR/Pro underwater color correcting filter is designed to restore some of the warm colors filtered out by the water. For available light use only, not recommended for use with flash.

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Checking Controls

Once the housing has been closed, push the controls back into place. Make sure they line up with the camera's controls.

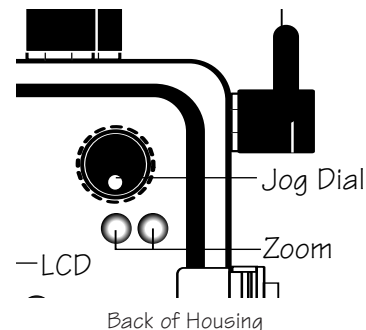
Turn Camera On

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.

Jog Dial Control

The housing's Jog Dial Control has a small bump on the inside face of the control for depressing the Jog Dial on the camera. The small bump is in the same location as the white dot on the control knob. To use, rotate the control knob until the white dot is in the 6 o'clock position. In this position the small bump will depress the Jog Dial.

To select an item turn the jog dial to the item you want to set. Then pull out on the control slightly and position the white dot over the jog dial and depress. This will set the item you selected.



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Camera's Built-in Flash

The camera's built-in flash cannot be used to illuminate subject underwater.

External Flash

Camera Settings

When using an external flash you must turn external flash on in the camera's menu. See camera instruction booklet.

Using DS Substrobes with the EV-Controller.

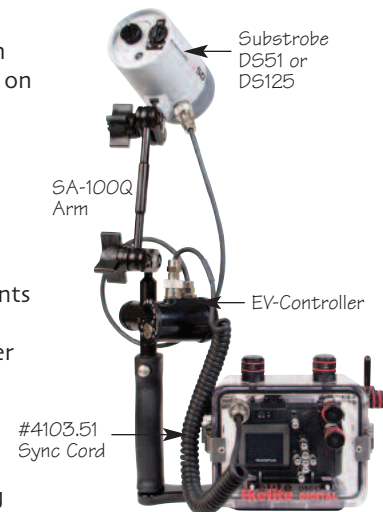
The Ikelite EV-Controller provides 10 manual power settings in half-stop increments with the DS51 or DS125 Substrobes. The EV-Controller must be triggered by the optional #4103.51 sync cord attached to the housing bulkhead.

External strobes expand lighting

options to achieve the best lighting for different subjects. A second external digital strobe package can be added to fill shadows and produce more realistic photographs.

Using Ikelite Substrobes with Sync Cords.

Any Ikelite Substroke, Substroke 50, Substroke DS51, Substroke 100, Substroke DS125 or Substroke 200 can be connected to the housing and used in the manual mode with the #4103.51 sync cord.



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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 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.
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. Draw the o'ring through your fingers to apply a light 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.
5. Keep the area where the o'ring fits and the sealing surface of the housing clean.
6. Rinse the housing exterior thoroughly in fresh water after each salt water use. Dry with a soft cloth. Dry lens port to eliminate water spotting.
After several uses in salt water soak the housing in a mild soap solution, rinse and dry before storage. 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.

CAUTION

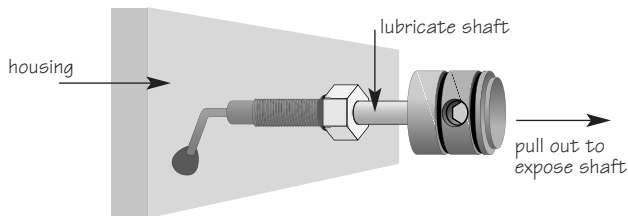
Never use spray lubricants as the propellant ingredient can cause the plastic housing to crack.

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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 fresh water after saltwater use. 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.
2. Some of the controls have long shafts. These controls can be



pulled out, exposing the shaft (see drawing).

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 use.

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, 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, NOTE 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.

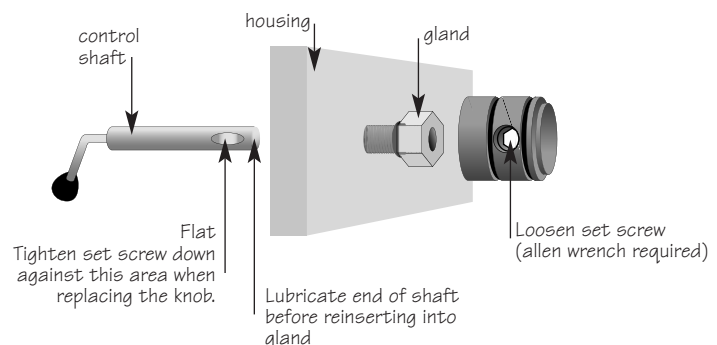


Photo Tips

1. The number one rule in underwater photography is eliminate as much water between camera and subject as possible. Get as close as you can to the subject, then use the zoom. If you are using flash, subjects beyond 6 feet (1.8m) will not have much color.
2. If the camera's built-in flash is being used it is very close to the camera lens. The flash will light up any suspended particles in the water and they will be recorded in your picture. This effect is called backscatter. To eliminate as much backscatter as possible, photograph close. 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. 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 that it does not fire the flash. With the sun behind the subject the subject is shaded (dark) and needs flash for a good exposure.

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Photo Tips Cont.

6. Since opinions vary on what is the correct exposure you may want to adjust your camera for what you like exposure wise. Many cameras allow you to adjust both available light and flash exposure with the EV control in the camera's menu.
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. One thing to remember when using image manipulation programs, if the image is overexposed much of the color is missing. If the color is missing you cannot adjust it. If images are underexposed some color and detail may be there, 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 than over exposed.

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General Tips

1. Due to the power required to operate the camera, flash, and LCD screen it is a good idea to start each dive with a fresh batteries.
2. Some cameras reset their flash to AUTO when the camera is turned on. If you prefer another setting be sure to select it.
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 photographs.

Ikelite Limited Warranty

All Ikelite products are warranted against any manufacturing defects for a period of one (1) year from the 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, including but not limited to bulb failure 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 assure that all products perform as intended. For repair or service, return the product to the address below with your name, address, phone number and a brief description of the problem. Evidence of purchase date must be provided to obtain warranty service.

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