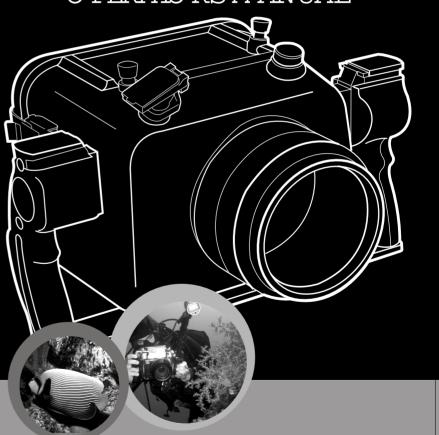




Fantasea Line FD-50 Waterproof Housing for the Nikon D-50

O PERATO RS M ANUAL



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Introduction

Welcome to the exciting world of underwater digital SLR photography. Your purchase of the FD-50 housing for the Nikon D-50 digital camera will set you apart from other photographers. With this system, you will enjoy the best chance of capturing the widest variety of superior underwater images. The FD-50 offers you the opportunity to use the exact Nikon lenses for the best circum stances, including a choice of macro, wide angle, fisheye, and zoom lenses. You will find the housing to be easy and instinctive to use and handle and will have countless dives in which to experiment with the D-50's advanced imaging capabilities. Fantasea Line Photo is pleased to offer our help with any of your photographic needs.

The purpose of thism anual to is to provide you with the basic introduction to your FD -50, which should get you com fortable with the housing and allow you to get started taking great underw atter images right away. We strongly urge you to thoroughly read the N ikon D -50 instruction manual as well, to familiarize yourself with the most common controls and settings that you will use for your underwater photography. The FD -50 housing will permit access to most of the important controls on the camera. To take full advantage of these features, it is best to have a good command of what each option can do for you, so you will know when you should use each specific control.

Included w ith housing:

- The FD-50 housing consists of a front and back shell that latch together to form the housing body.
- A screw in standard flat port is included. This port will accommodate the 18-70mm lens (without a manual zoom control). O ther optional ports are available for different lenses (5 inch superwide angle Dome Port, 60 mm macro/close up port and 105 mm supermacro port)
- Two housing handles are attached to the camera body and the base plate. These handles are made with the standard Fantasea strobe arm mounting shoe on the top of each one for attaching a Fantasea (or other company) Flex arm or Balland Jointain for the accessory flash and for underwater light.
- Base plate form ounting other tray and arm systems.
- Optical view finder eyepiece built into the back cover of the housing to assist the photographer in view ing and focusing.
- A five-pin TTL flash sync port to connect with the D-50's hot shoe.
- Rem ovable camera mounting tray that slides into position with the D-50 attached, positioning the camera in the exact location for perfect control alignment.

@N ikon is a registered tradem ark of the N ikon Corporation.

- Spare gasket
- Adjustm enttool
- W rist lanyard
- W arranty and other docum ents
- Instruction M anual

Cameramodel

The FD -50 is dedicated exclusively to the N ikon D -50 cam era. The size and shape of the cam era, plus the location of controls for alignm entw ith housing controls requires this precision design. Together, the D -50 cam era and FD -50 housing offer the best combination of advanced digital photography at an affordable price. No other cam era may be used in the FD -50 housing.

A Variety of Uses:

The Fantasea FD -50 housing is more than just an underwater camera system. It protects the D-50 against damage from such environmental conditions as rain, snow, dust, sand, and dirt. It is perfect protection for active outdoor sports, where these elements would normally notallow an advanced camera like the D-50 to be used without danger of damage. The lightweight, compact housing and handles make it easy to hold and use while sailing, fishing, kayaking, backpacking, or just for fun at the beach or around the pool. It will also provide a valuable tool form any commercial, industrial, and medical applications, because it is impervious to most liquids, and sprays.

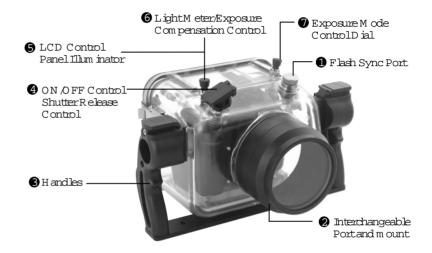
Specifications:

- The FD-50 is an injection molded polycarbonate housing.
- The main seal between front and back halves is a compression gasket.
- The ports are sealed when mounted by a radial 0-ring.
- Controls use stainless steel shafts and springs
- Controls are sealed by double 0 -rings.
- Controlknobs and buttons are made of molded polycarbonate
- Latches are stainless steel.
- Handles are made of molded polycarbonate
- Flash sync port is a standard five-pin N ikonos type TTL connector.
- The Fantasea FD -50 has a maximum working depth rating of 200' (60m)

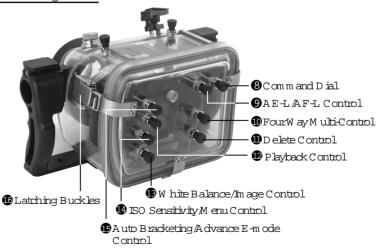
Housing Orientation

See pages 5-7 for control details

Front, Top & Left Side:



Back & RightSide:



ControlDetails:

The following is a partial list of the most common uses of housing and camera controls. For the full list of camera functions and settings accessed by each control, you should consult your D-50 camera instruction manual.

Please note that som e of the FD -50 housing controls are designed to operate m ore than one cam era control. And the comm and dial and sub-comm and dial will perform multiple functions when operated in conjunction with other camera, housing controls.

1.Flash Sync Port:

- Connectany standard five-pin N ikonos type sync cord to this bulkhead connector.
- A light the index dots to correctly position cord to seat in flash port.
- Push down on cord to seat the O -ring seal, and make connection with the five pins.
- Tighten collar on sync cond to insure cond does not come loose or apart while underwater or during use.

2. Interchangeable PortM ount:

 A llows the use of different ports to match different interchangeable lenses for creative imaging control. Carefully check that both orings mounted on the port thread areas are properly seated, clean and lubricated prior to installing the lens port.

3.Handles:

• Ergonom ically located for easy gripping and access to controls. Strobe arm s can be mounted on the base shoe on top of each handle.

4.0 N OFF /Shutter Release Control:

- Rotate knob under shutter release lever to turn main poweron oroff.
- Half depress to activate lightm eter and auto focus lock (AF-S mode)
- Full depress to take picture.

5.LCD ControlPanelIllum inator:

• Push housing control button to illum inate main control panel backlight.



Explanation 5 and 6 refer to the same button with multiple controls.

6.LightM eter/Exposure Compensation Control: Dual Control

Rotate housing control over cam era LightM eter control.

- Press button and rotate com m and dial to choose M atrix M etering, Center W eighted M etering, or Spot M etering.
- Rotate housing control over cam era exposure compensation control
- Pressbutton and rotate comm and dial to choose am ount of compensation.

7.ExposureM odeControlDial:

 Push down and rotate housing control to change cam era's main exposure modes. Choose Manual, Aperture Priority, Shutter Priority, Program, or any of several Scene Modes.

8.Com m and Dial:

- Rotating dial independently changes Shutter Speeds in Mors exposure mode.
- Rotating dialindependently while in P mode shifts the program exposure into flexible program, and changes the combination of shutter speeds and apertures.
- Rotating while pushing other control buttons affects:
 - o Flash Mode
 - o LightM eters
 - o Exposure Compensation
 - o Auto Bracketing Setor Cancel
 - o Advance Mode
 - o ISO Sensitivity setting
 - o White Balance Mode
 - o Image Size

9.AE-L/AF-L Control:

 Press and Hold the AE-L/AF-L button to lock exposure and focus prior to recomposing a scene. The original exposure value and focus distance will remain set after re-composition.

10.Four-W ay M ulti-Control:

- Press Up and Down buttons to scroll through Menu options.
- Press Left and Right buttons to make menu settings and confirm settings.
- Use Left and Right buttons in Playback mode to scroll through in ages recorded on memory card.

11.Delete Control:

- Press Playback button to turn on LCD M on itor and show last in age recorded on card.
- Use the Four-Way Multi-Control to scroll through in ages on card untilyou find the one you want to consider for deletion.
- Press D elete Button once to activate delete function.

- Press D elete Button a second time to confirm your decision to delete the image shown in the LCD M onitor.
- Press the Playback button again, or depress the shutter release button half way to turn off the LCD M onitor and return to Shooting M ode.

12.Playback Control:

- Press housing Playback button to activate LCD monitor in Playback mode.
- View any image on memory card by scrolling with the left and right arrows on the FourWay Multi-Control.
- Press housing Playback button once m ore, or depress shutter release half way to turn LCD m onitor off.

13.W hite Balance/Im age Control:

- Rotate housing control over camera W hite Balance control.
- Press button and rotate Comm and D ial to choose A uto W hite Balance
 M ode or specific M odes for the situation.
- Press button and rotate Sub-C om m and D ial to choose a W hite Balance C om pensation value to deviate from the cam era's norm al value setting in each W hite Balance M ode.
- Rotate housing control over camera Quality control
- Pressbutton and rotate Comm and Dial to choose Image Quality. Choose from Raw, Fine, Normal, Basic, or Raw & Basic options.
- Press button and rotate Sub-Comm and Dial to choose Image Size.
 Choose Large, Medium, or Small Image size.

14.ISO Sensitivity M enu Control:

- Rotate housing control over camera ISO Sensitivity control.
- Press button and rotate comm and dial to choose from ISO sensitivity settings between 200 and 1600.
- Rotate housing control over cam era M enu control
- Use Four W ay M ulti-Control to navigate through m enus and make setting choices.

15. Auto Bracketing / Advance Control:

- Rotate housing control over camera Auto Bracketing control.
- Press button and rotate Sub-comm and dial to choose between two or three frame exposure bracketing, and amount of change between each exposure.
- Rotate housing control over cam era Motor Drive Advance control.
- Press button and rotate com m and dial to choose between single frame or continuous advance shooting modes, and self-timer settings.

16.Latching Buckles:

Provides positive closure to the housing and activates the gasket seal.
 See below for directions on how to close.

Preparation of Housing

Makeing common or required camera settings.

Prior to inserting cam era in housing, it is recomm ended that M enu option settings be made according to the preferences of the user. M ost of these choices are ones that will remain unchanged form ost of the time while diving, and therefore it will be more convenient and less time consuming to make the settings prior to diving.

MountHousing Port:

- Clean & Lubricate PortO-ring [for PortO-ring only]
 - In order to properly maintain the PortO-ring you must periodically remove port O-ring from channel using only your fingers.
 - O Push and lift the O -ring from its channel.
 - $^{\circ}$ DoNOT use any sharp instruments, such as knives ordental picks, to remove 0-ring. You may accidentally cut the 0-ring causing a potential leakage.
 - Inspect the O-ring visually and by feel for any cuts, nicks, flat spots, stretching, or any debris, such as sand, dirt, lint, hair, or otherm atter that could compromise the integrity of the seal.
 - O Clean O-ring by soaking in fresh water until all debris is removed.
 - o Dry O -ring with a soft clean cloth. Be careful it does not leave any linton the O-ring.
 - Lubricate the O-ring with the supplied silicone grease. Do not over grease the O-ring. It only requires enough grease to allow it to slip into place and make a seal. It should be slippery and shiny but without any abundance or build-up of grease. A teardrop amount is usually sufficient for proper lubrication.
 - o Inspect the O-ring channel for any debris or foreign ${\tt m}$ atter that could dam age the O-ring or cause it to lose its seal.
 - Clean the O-ring channel using a damp cloth or Q-tip. Be careful not to leave any lint behind.
 - Replace the O-ring in the channel by lifting it over the end of the port until itsits in its channel. Be sure the O-ring is not twisted or deformed and out of position in any way.
 - M ount the port on the housing body by aligning the threads on the end of the portw ith them ount on the housing and screw ing clockw ise until it is FULLY screwed in place.

The FD-50 lens portuges 2 radial 0 -rings for a watertight seal. This is a different type of seal than used to seal the two main halves of the housing itself. That seal is a compression gasket. Gol Radial 0 -rings are affected by friction when closing the seal. as itrubs againsta housing wall. Com pression gaskets are not Note 1: affected by friction as there is no movement or nubbing against. any wall. It is a direct face-to-face seal. Therefore a radial 0 ring, such as the 0-ring on the port, requires lubrication. The main housing gasket, a compression seal, does not require any lubrication. It only requires cleaning. Lubrication of an 0-ring does not improve the seal. It only reduces the amount of friction on the 0-ring when it is being 65 m oved into sealing position. The amount of lubrication required on the port 0 -ring is only enough to allow it to slip into place Note 2: without friction, so it does not twist or become dislodged. More grease is not better, and could in some cases have a negative affect if it is applied in large amounts to form a build-up that could trap any debris or foreign matter.

Open Housing:

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 Release all three latches at same time, and lift off back half to open housing.

Inspect and clean gasket:

- Use a clean wet cloth. Use only water to clean the gasket's sealing surface
- Do not rem ove the gasket unless there is evidence that there is a need to clean the underside surface, or the channel it sits in.
- If the gasket does need to be rem oved for cleaning or replacement, pull up on the gasket tab to lift it out of its channel.
- When replacing or changing gasket, begin by aligning the gasket tab
 with its cutout slot in the housing channel. Work the gasket down and
 into the channel around the full circum ference of the opening. Be sure
 it is completely seated in the channel for a proper seal.
- Do not use any lubrication on this gasket. This is a compression seal gasket, which is not affected by friction and does not require lubrication for proper closure of the housing.

InsertD-50 cam era and lens in housing:

- M ount cam era and lens on the rem ovable tray, using the tripod screw.
 Slide the tray and cam era into the housing tray slot. M ake sure it is completely inserted.
- $\bullet\,$ Slide the flash sync cord into the D-50's hot shoe.
- A light he housing controls with the corresponding buttons on the camera.

Take caution to insure the flat sync cord does not get caught in the housing seal, by storing the slack alongside the left side of the camera.

- Place housing back over front and align the complete mating surface of the housing and the gasket, forming a proper seal.
- Position all three latches over latch hooks in ready position.
- C lose all three latches at one time. If it is not possible to close all three
 latches at the same time, close the bottom latch first, maintaining pressure
 on the other side. Then close the two side latches simultaneously.
- Inspect the gasketseal for proper closure. A complete seal can be visually confirmed by looking for the black line made by the gasket around the complete circum ference of the housing

Take a Test Dive:

- M ake the first dive without camera in housing. This will give you
 a chance to inspect the housing seal for proper closure. In this case,
 any mistakes will not result in the loss of the camera.
- Operate all controls underpressure in the water and inspect forwater tight seal.
- Before all dives, im merse the housing in the camera rinse tank, and press all buttons, to visually inspect for any leakage.
- While descending on every dive carefully observe the housing. If you see any bubbles rising from it or water entering surface immediately while holding the lens port in a downward position. Once on dry land carefully open the housing, take out the camera and dry it off if any water is on it and check to see if there is any damage. Please inspect the housing, rinse it in fresh water, dry it out and then take a dive without the camera in the housing to check for leaks or othermal functions.

Recom m ended Initial Camera Settings:

- SetD-50 on M (Manual) Exposure Mode
 - o This is to keep the built-in flash from trying to pop up in low ambient light.
 - o The Auto Exposure Modes are notal ways appropriate for underwater photography.
- Set cam era to AF focus m ode
- Use menu option to set camera for Focus Priority Release mode.
- Set Camera to Single Advance Mode
- Choose M atrix lightm eter. This will provide the most sophisticated lightm eter for evaluating complicated and fast changing ambient light conditions.
 - o The M atrix m eter in the D-50 is a 1,005 sensorRGB lightm eter, insuring the most accurate evaluation of the ambient light.
- Set ISO to desired sensitivity setting. Use ISO 200 for the least amount of noise (digital grain), when possible.
- Setpersonal preferences by using cameram enus.

Using External Strobes:

C om patible Strobes include any that can use the standard N ikon five pin TTL sync. But these strobes will have to be used in the M anual Flash Exposure m ode.

- Nikon Speed lights, such as the SB-600 and SB-800 can be used with the D-50 in the TTL Auto Flash Exposure mode.
- Connect the strobe sync cond to housing's bulk head sync port. A lign
 the index dots on the cond and the bulk head connector. Push the cond
 completely into the bulk head connector to seat the O-ring. Tighten the
 collar to secure the cond in place.
- The 0 -ring on the end of the sync cord should be inspected, cleaned and lubricated in the same way the port 0 -ring was treated.
- U sing different arms are and tray systems can be accommodated by attaching to the shoes on the top of the FD-50's handles, or by attaching to the base tray tripod mount. An adaptermay be needed to physically mount the arms to the housing handles.

Care & Maintenance

• Before a dive:

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- ProtectFD -50 from sun and heat. This will reduce the possibility of fogging due to condensation of the warm, moistair inside the housing when immersed in the colderwater. It also reduces the possibility of sundamage to the polycarbonate. An insulated camera bag is a good means of protection from overheating.
- O ProtectFD-50 from accidental impactdam age. Secure the housing and camera in a safe location on the boator in any vehicle, so it does not bounce around or bump into other cameras and housings. The insulated bag mentioned above should be padded for this reason. Do not leave the camera and housing in a camera rinse tank or bucket on the boat in route to the dive site. Rough conditions can cause impact damage and photo gear can often get tangled if too many systems are together in the tank.
- Inspection of all user serviceable gaskets and 0 -rings should be a routine pre-dive check. Required maintenance for the main gasket involves cleaning only (if there is no damage requiring replacement). O -rings may require lubrication. Use the silicone grease supplied with the housing. Use only enough grease to lightly cover the O -ring to reduce friction as it is put into its place and the seal is made. O verlubrication should be avoided and can result in debris accumulating on the O -ring, and compromise the seal.
- It is highly recommended that the housing be immersed in the rinse tank or in shallow waterbefore every dive and all its controls operated to visually confirm that it is watertight before descending to depth.

• Afteradive:

- R inse the housing with a strong stream of fresh water. Let it soak for about 20 m inutes to allow the water to dissolve any saltresidues under the controls or in tight spaces.
- Operate all the controls while the housing is soaking to help dislodge any salt residue that may be caught under or around the controls.
- O D ip the housing vigorously several times to agitate the final remains of salt from the narrow areas or around the controls.
- O D etach sync cords, arm s & brackets for overnight storage. This will greatly reduce the possibility of electrolysis and corrosion that can build up between similarm etals on the housing.
- Only with a clean towelorallow drying naturally in a coolshady place.

• Traveling:

- Use protective hard case when traveling to protect the camera and housing from in pactdamage.
- If possible, do not check camera and housing case on airlines. Use a
 hard case that can fit under the seator in the overhead compartment
 of aircraft, and hand carry.

A nnual M aintenance and Storage:

- The housing 'sm ain gasket and port0 -ring should be replaced every year orm ore often if used frequently. The frequency of replacem ent depends on the user's inspection of these seals and their condition at the time. If in doubt, it is always better to change them in order to not take the chance of flooding the housing.
- The seals on each of the controls should be replaced every couple of years or more often if needed. The best indicator of the need for replacement is if the controls become harder to operate due to a build up of saltor corrosion.
- Store housing in a cool, dry location when not traveling..It is
 recommended that the housing be stored with the two halves together,
 but not with the latching buckles closed. This will take the constant
 compression off the main gasket. It is also recommended that the
 housing is not stored with the portmounted.

Basic Shooting Techniques:

- Practice handling the FD -50 on land.
 - O G etting fam iliar w ith the location and m ovem ent of all the controls and how the changes in settings can affect your in age is an important part of the process. It is better to learn the basics of the cam era's operation on land, rather than when first underwater. It is faster to operate the cam era out of the housing and you w illnothave the limited time frame as you would if you were underwater.

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• Focusing and Shutter release control:

• Getused to operating this control on the camera in both half depress, and full depress movements. You will frequently depress the shutter release only half way to activate the exposure meter and auto focus to preview the shooting conditions and make setting changes. Once you get the feel for operating the camera control directly, you can then try it in the FD-50, using the housing's controls in the same manner.

• Use the view finder eyepiece:

O compose and view exposure inform ation display. It is very important that you become fam iliarwith the information display in the view finder so you can make proper exposure settings and know what other settings have been made. You will use this often and it is good to become familiarwith it before attempting to read it underwater. Also practice composing and focusing the camera by eye, before using it underwater to get the feel for this operation as well.

• Changing Exposure Settings:

Using the cam era in its M anual (M) Exposure M ode gives you the ability to change either shutter speeds or apertures to control the exposure the way you want. Getused to making these changes while youreye is in the view finder and you are referencing the LCD display forguiding you in the exposure process. The comm and dial is set to change shutter speeds, and the sub-comm and dial is set to change apertures. Practice operating each of these controls so they become instinctive in operation.

Fam iliarize yourself with the movements required:

 U tilizing each housing control to properly and efficiently change cam era settings. Some controls only require a straight pushing movement, while others may require pushing and rotating simultaneously to operate.

• Using the camera's lightmeter to determine ambient light:

O There are three lightm eters in the D-50; M atrix, C enter W eighted, and Spot. Read the D-50 instruction m anual for complete descriptions on each of these meters and when to use each. No matter which one you choose, they all help guide you to the proper shutter speed and aperture combination for proper ambient light exposure. Where you aim the meter is also important. In underwater photography, it is important to remember to aim the meter at the background water or "sky" to get the proper exposure information. It is often necessary to gather this information, make your exposure settings, and then recompose the scene before shooting.

- Som etim es it is good to operate the AE-L button:
 - W hen locking in the exposure value of the background before recomposing and taking the photo.

• The ISO Sensitivity setting on the camera:

o This is the same as the film speed that photographers set on film cameras, with one small difference: There is no film. This setting is the equivalent of the film speed you would normally set. The higher the ISO sensitivity number, the more light is captured and the brighter the image. Higher ISO sensitivity numbers have more "Noise", a term that is the digital equivalent of grain in higher speed films. Try starting out with a lower ISO sensitivity such as ISO 200 if the lighting conditions permit.

• Getclose to you subject when shooting underwater

 This will improve the effectiveness of your strobe in restoring lost color. It will also expand the sharpness of the image by reducing the amount of backscatter between the lens and the subject.

• Begin by choosing subjects

• Those that are easy to approach and will not scare off readily when you approach. Choose subjects that will result in a large image size. This will make a more dramatic image.

• Change F/Stops and shutter speeds to "bracket" your exposures

 This will give you a range of in age exposures, from which you can choose the one that you like the best. It in proves the probability of getting a good shot.

• Use flash all the time

This will restore the vivid colors lost through selective light absorption.
 Get to know the full manual power rating of your strobe, by shooting at a constant distance from an average reflective subject, and take several shots at different F/stops.

• Focus lock on your subject

O Practice depressing the shutter release half way, and hold the focus untilyou are ready to record the image. If you are shooting a moving subject, itm ay be helpful to focus lock on a nearby part of the coral reef and wait for the subject to enter into your plane of focus.

• Take lots of shots of any subjector scene

 It is in portant to vary each shot by changing exposure settings or composition. This will give you a good sample of shots from which to select the best one.

Camera Lenses and Ports

The Fantasea FD-50 has an interchangeable port system that will accommodate a wide variety of SLR lenses for use underwater. These ports include:

Standard Flat Port:

This port will accommodate the 18-55 mm zoom lens in its wide angle 18mm position. This lens is very popular and is the most common lens first purchased by D-50 owners. It does not include a manual zoom control. It is meant for use in only one position. A very popular port for the workhorse 60mm micro Nikkor lens. This lens and port is the ideal combination for capturing the widest variety of fish identification portrait shots in a life-size reproduction. 60mm Macro Port:

105mm Macro Port:

The micro Nikkor is the best tool for capturing the tiny and shy marine subjects. When it is not possible to closely approach your subject, the lens will still offer life-size image reproduction, but with a longer working distance.

5" Dome for Nikon 16 mm or Sigma 15mm:

For distortion free use with wide-angle lenses, having a focal length of 20mm or more. Some Zoom lenses can be used with this port, but may require a diopter to allow it to focus accurately.

Fantasea FD-50

The FD 50 includes a one-year limited warranty for defective parts which the manufacturer will replace.

See separate insert page regarding the unique FD -50 anti flooding program by DEPP and the FD -50 Accessory Products page.

Flood Insurance

Every Fantasea housing includes a one-year flood insurance policy. Supplied by the Divers Equipment Protection Program (DEPP), this insurance policy acts as additional protection to the warranty and is good for one year. If your Fantasea DSLR housing experiences water leakage in this period of time you will be compensated for the loss of the camera body only. Only a small shipping charge will apply. All insurance policies are automatically activated at the time of purchase.

All owners must complete the on-line product registration form, by going to www.fantasea.com and go to the Customer Support area on the left side and click the banner titled Warranty and Flood insurance, click on the link at the top of the page labeled "Housing Product Registration, you will be taken to this page http://www.fantasea.com/registration.asp where you can complete the form and register your housing purchase. Failure to register the product within 30 days of purchase will result in a shorter period of insurance coverage for your housing and may in the end cancel the flood insurance coverage all together. Also, you must keep the original sales receipt of your purchase, which must be submitted in the event of a claim: include it in the box and send it along with a photo copy of the bill of sale to Fantasea Products. To make a claim go to the same page and click the banner link: For DEPP anti flood insurance claims please click here: http://www.fantasea.com/Claims.asp

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