



Manual for the FP-5000 Housing

For Nikon Coolpix P5000 & P5100 Digital Cameras



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GENERAL INFORMATION

THE FANTASEA FP-5000 HOUSING

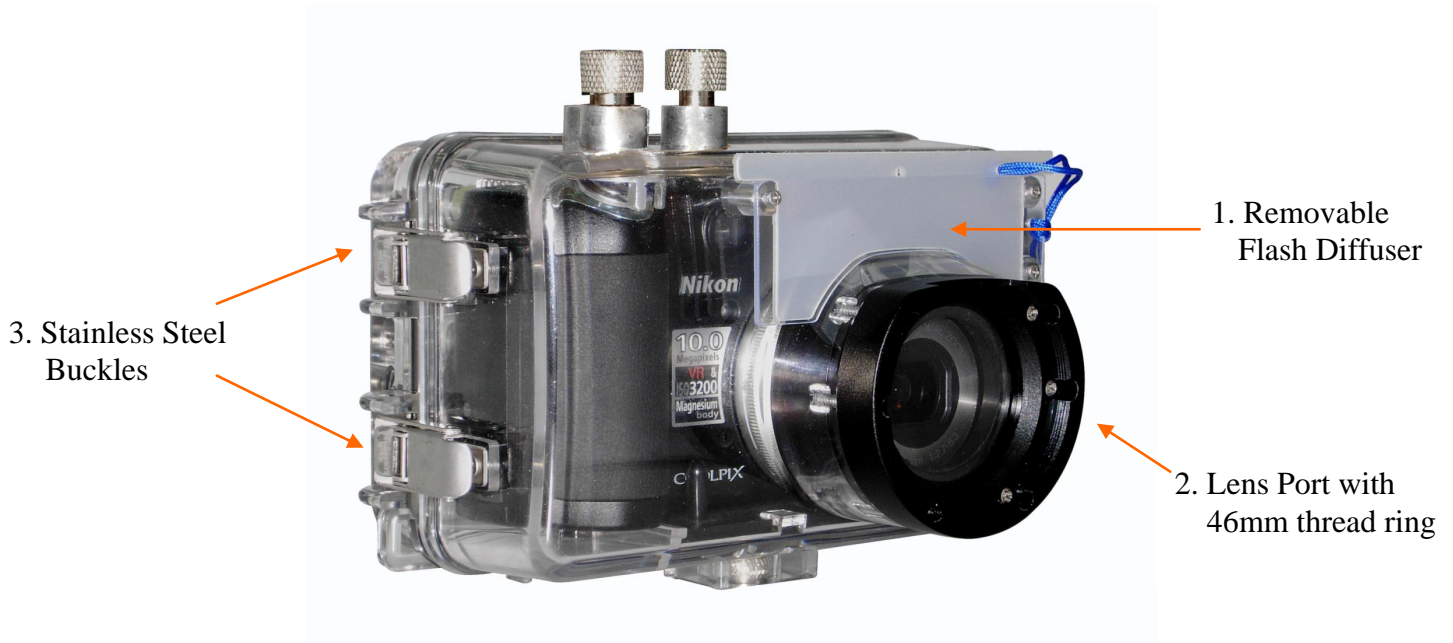
Fantasea has specially designed the FP-5000 housing for the Nikon Coolpix P5000 and P5100 cameras. This housing is ideal for outdoor and underwater photographers, who enjoy the camera's automatic exposure features for capturing fast action pictures easily, and manual exposure features for capturing the widest variety of creative superior underwater images. The FP-5000 housing insures easy handling and accurate access to camera functions through the critical placement of push-button controls and a compact design.

The FP-5000 housing provides all control functions: On/Off, Shutter Release, Zoom In/Out, Mode Dial, Command Dial, Function, Monitor, Playback, Menu, Delete, Timer, Macro, Flash, Exposure Compensation, OK control, ISO, White Balance and has a built in Flash Diffuser and an anti-glare hood over the LCD screen.

FANTASEA FP-5000 USES

The Fantasea FP-5000 housing is designed as an underwater/outdoor camera housing. It features double O-ring on all controls, and has a working depth of 200 feet/60 meters. Underwater photographers can dive or snorkel and capture all the excitement of this fascinating world, while outdoor photographers also have the option of capturing the action of such activities as white water and paddle sports, swimming, sailing and boating, surfing, fishing and hunting, backpacking and camping. The Fantasea FP-5000 will protect the Coolpix P5000 and P5100 cameras from water, sand, dust, and other damaging elements.

Front Side of Housing



Numbered description below refers to corresponding numbers on above graphic.

1. Removable Flash Diffuser:

The Flash Diffuser is used to diffuse the internal flash's intensity. See the section on "Accessory Slave Flash" for additional information.

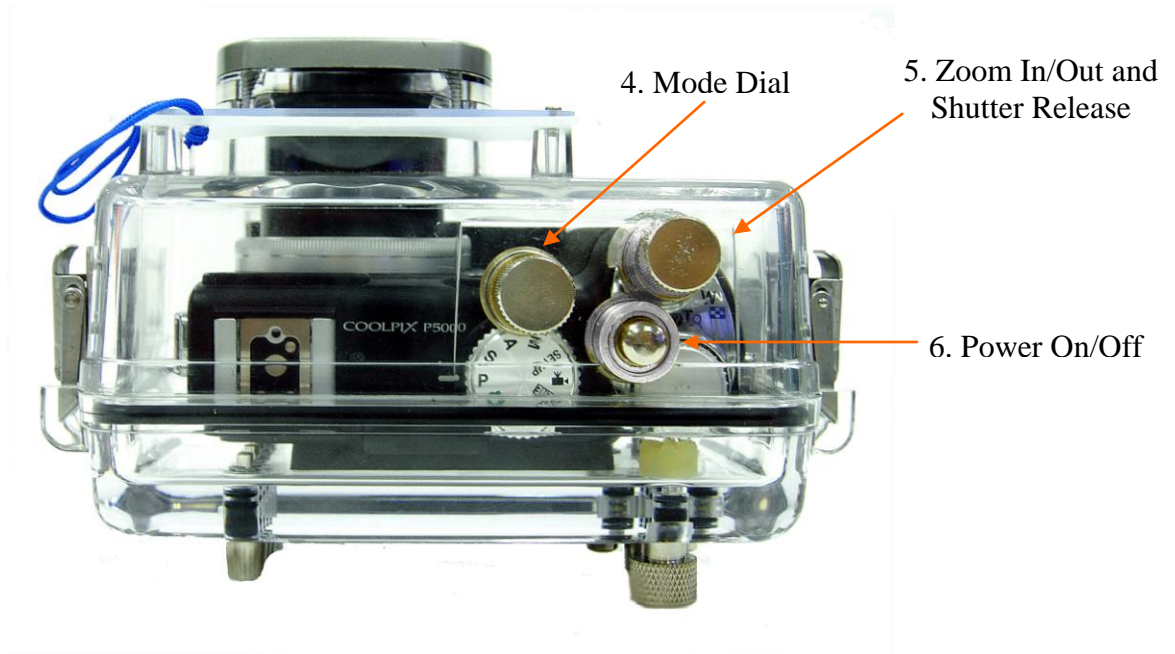
2. Lens Port:

Refer to the section "Inserting Camera" for useful information.

3. Buckles to Secure Housing:

Refer to the section "Using the Fantasea FP-5000 Housing" on how to open and close the camera housing.

Top Side of Housing



Numbered description below refers to corresponding numbers on above graphic.

4. Mode Dial:

To select a mode, align the mode icon with the mark next to the mode dial. The P5000 and P5100 cameras offer the following modes:

- *Auto* - A simple “point-and-shoot” mode recommended for first time users of digital cameras.
- *Anti Shake* - Prevent or reduce blur using vibration reduction and the Best Shot Selector (BSS).
- *High Sensitivity* - Choose this mode to reduce blur when subject is poorly lit.
- *P, S, A, M* - Choose this mode for greater control over shutter speed and aperture.
- *Setup* - Display the setup menu, where you can perform such tasks as setting the camera clock and adjusting monitor brightness.
- *Scene* - Make voice recordings or choose from 16 “scenes” suited to different subjects or shooting conditions and let the camera do the rest.

5. Zoom In/Out and Shutter Release:

Push this button to activate the shutter release control, and swivel it to the sides in order to activate the zoom control.

Zoom In/Out

- Use the Zoom button to activate optical zoom. Swivel to "W" (Wide) to zoom out, increasing the area visible in the frame, or to "T" (Tele) to zoom in, so that the subject fills a larger area of the frame. When the camera is zoomed to the maximum magnification (3.5x), holding "T" triggers digital zoom. The subject is magnified up to x4, for a total magnification of x14. A monitor indicator shows the current zoom ratio.
- Swivel to "W" in full-frame playback to display pictures in "contact sheets" of four or nine thumbnail images.
- Swivel to "T" to zoom-in on still images displayed in full-frame playback.
- When entering a menu, swivel to "T" to view a description of the currently selected menu option. To return to the original menu, swivel the zoom control to "T" again.

Shutter Release

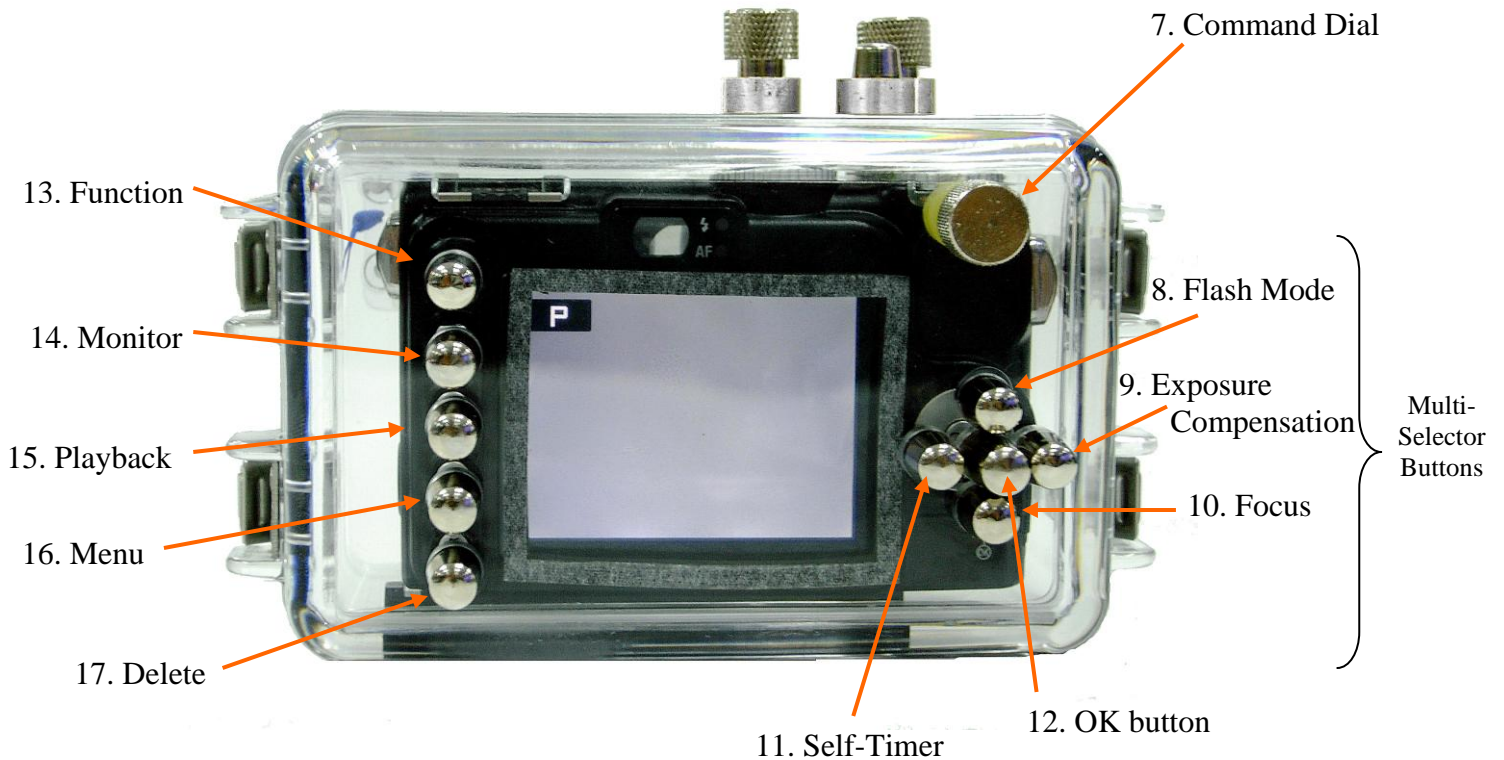
- This is a two-stage shutter-release button. First lightly press the shutter-release button halfway, stopping when you feel minimal resistance. Once the camera has focused, press the shutter-release button the rest of the way down to release the shutter and take the picture. Please note that moving the camera while pressing the shutter-release button may result in blurred pictures.

6. Power On/Off button:

To turn on the camera, press the power switch. The power-on lamp (green) will turn on for a moment, the monitor will turn on, and the lens will extend.

To turn off the camera, press the power switch again.

Back Side of Housing Buttons



Numbered description below refers to corresponding numbers on above graphic.

7. Command Dial:

- In full-frame playback, rotate command dial right to view pictures in order recorded. Rotate command dial left to view pictures in reverse order.
- In scene mode, press the function button and rotate command dial until desired scene is displayed in monitor.
- In thumbnail playback, rotate command dial to page through pictures.
- In playback zoom, rotate command dial to zoom pictures in or out.
- In movie mode, press the function button and rotate command dial until desired setting is displayed in monitor.
- In movie playback, rotate the command dial to fast forward or rewind.

- Choose the function performed by function button in P, A, S and M modes. In these modes, press down the function button to display the chosen function options, rotate command dial to highlight desired option and release function button.
- In S mode, rotate command dial to choose the desired shutter speed.
- In A mode, rotate command dial to choose the desired aperture.
- In P mode, rotate command dial to choose different combinations of shutter speed and aperture.
- In M mode, select aperture or shutter speed by pressing the multi selector to right. Rotate command dial to choose the desired aperture or shutter speed.

Multi-Selector buttons (8-12)

8. Flash Mode:

In order to select a flash mode:

- Press the Flash Mode button.
- Use the multi-selector up/down arrows to choose the desired flash mode (Auto, Auto with Red-Eye Reduction, Off, Fill Flash, Rear-Curtain Sync and Slow Sync), and press "OK".

9. Exposure Compensation:

In modes other than M, exposure compensation is used to alter exposure from the value suggested by the camera to make pictures brighter or darker.

- Press the Exposure Compensation button.
- Press the multi-selector up/down arrows to adjust exposure, and press "OK".

10. Focus:

Choose a focus mode according to the subject and composition (Auto focus, Infinity, Focusing limit and Macro close-up).

- Press the Focus button.
- Press the multi-selector up/down arrows to highlight mode, and press "OK".

11. Self-Timer:

The camera is equipped with a ten second timer and a three second timer for self-portraits and to reduce blur. When using the self-timer, mount the camera on a tripod or rest it on a flat and stable surface.

- Press the Self-Timer button.
- Press the multi-selector up/down arrows to choose mode, and press "OK".
- Press the shutter-release button halfway to focus, and then all the way down.

12. OK Button:

Push this button to confirm a selection.

13. Function:

- Choose the function performed by function button in P, A, S and M modes (ISO, Image quality, Image size, white balance and vibration reduction) through the camera's menu.
- In these manual modes, press down the function button to display the chosen function options, rotate command dial to highlight desired option and release function button.

14. Monitor:

Press the Monitor button to hide or display indicators in the monitor.

15. Playback:

- Press the Playback button to enter full-frame playback. Multi-selector buttons may be used to view pictures.
- Press Playback button again or press the shutter-release button to return to shooting mode.

16. Menu:

When Menu button is pressed, the following menus are displayed according to the mode that has been selected:

- *Scene mode* - displays the scene menu.
- *Movie mode* - displays the movie menu.
- *P, S, A, M modes* - displays the shooting menu.
- *Playback mode* - displays the playback menu.

17. Delete:

- Press Delete to delete the picture currently displayed in the monitor in full-frame playback. Press the multi-selector up/down arrows to choose "Yes", and press "OK".
- In Shooting Mode, press this button to delete the last picture taken. When the confirmation dialog shown at right is displayed, press the multi-selector up/down arrows to choose "Yes", and press "OK".
- Press Delete to delete the movie currently displayed in the monitor in full-frame playback. Press the multi-selector up/down arrows to choose "Yes", and press "OK".

Note!

It is strongly recommended that you familiarize yourself with all the controls topside before using these controls while diving.

GENERAL CAMERA DESCRIPTION

With the release of the COOLPIX P5000 and P5100, Nikon offers a camera with a range of features that enable the user to explore creativity behind photography.



The latest addition to their COOLPIX line of cameras is a lightweight solid model with an impressive imaging performance of 10.0 megapixels on the P5000 and 12.1 megapixels on the P5100, which enables the photographer to capture images with incredible detail, even after enlargement. Picture quality is further guaranteed by Vibration Reduction (VR). This system compensates for the blurring that can be caused by camera shake or lower light, which are common factors underwater. A light sensitivity range up to ISO 3200 also enables the COOLPIX P5000 and P5100 to capture quality images of fast moving subjects or poorly lit scenes, another significant advantage for underwater photographers. The new Mode dial provides quick access to a selection of 16 different scene-optimized modes, seven movie modes, Anti-Shake mode and High-Sensitivity mode. Images can be composed carefully, and the results appreciated immediately, on the high-quality 2.5 inch LCD screen. The COOLPIX P5000 and P5100 come equipped with a Zoom-Nikkor lens, which delivers excellent results when shooting anything from portrait to panorama.

NIKON COOLPIX P5000 and P5100 FEATURE HIGHLIGHTS

□ Superb Image Quality

Excellent imaging quality is a priority for the COOLPIX P5000 and P5100, from the 10.0 effective megapixels on the P5000 and 12.1 effective megapixels on the P5100, of outstanding resolution produced by their 1/1.8-inch RGB CCD and improved high-performance image-processing engine, to its powerful 3.5x Zoom-Nikkor lens and lens shift VR.

□ VR Image Stabilization

Proven optical lens shift VR (Vibration Reduction) technology originally developed for interchangeable lenses used in Nikon SLR camera systems. Nikon's exclusive VR system provides the ability to shoot at shutter speeds as much as three steps slower without blurring the image, while also providing a smoother image on the LCD monitor.

□ Anti Shake Mode

A turn of the Mode dial activates High ISO and BSS (Best Shot Selector) in addition to VR (Vibration Reduction), automatically sets the optimal ISO for steady results, and selects the sharpest image from up to ten sequential shots.

□ Diverse Selection of Practical Shooting Modes

The new Mode dial gives access to four exposure modes (A, S, M and P) that appeal to photographers at all levels for greater control over camera operation.

□ Three Image Innovations

Face-priority AF can automatically detect then achieve accurate focus on people's faces, no matter where they are in the frame. **In-Camera Red-Eye Fix** can automatically detect the annoying red-eye effect sometimes caused by flash and compensate for it in-camera. **The D-Lighting function** can rescue underexposed images or shots with too much backlight by creating a copy of the image but with light and detail added where necessary and well-exposed areas left exactly as they were.

USING THE FANTASEA FP-5000 HOUSING


OPENING THE HOUSING

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

INSERTING CAMERA

Since the **Fantasea FP-5000** is specifically designed for the Coolpix P5000 and P5100 digital cameras, inserting the camera into the housing is quite simple.

1. Mount the camera on the removable tray, using the tripod screw. Please note that the two small plastic supports face up and go to the front of the camera. The camera needs to be resting up against these supports to avoid any rotation once inside the housing.
2. Slide the tray and camera into the housing tray slot. Make sure it is completely inserted.
3. Make sure the camera lens is centered in the rounded port area and that the lens does not distort the round black rubber seat. The housing is designed to have the camera fit in place perfectly, but if you are not careful, it is possible to put it in at an improper angle and hence it will be impossible to get a good seal or easy closure of the housing.
4. *After camera insertion, be sure that the extended camera lens does not catch or bend the black rubber seat on the inside of the lens port. It is vital that the lens does not disturb this rubber seat.*

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|  Notes: | <ol style="list-style-type: none">1. It is recommended to make some camera settings prior to inserting camera into the housing. Please refer to the Coolpix Owner's Manual for menu options and personal preferences.2. Take a few test shots: it is recommended to turn the camera "on" and program to "Flash Always" mode before inserting into housing and then take test shots to make sure all systems are working. |
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Underwater photographers will probably want to set the flash mode to the *flash always* setting to insure they always have a flash with every exposure. It is also wise to set the focus mode to allow the lens to focus in the macro range for capturing great images of the tiny and exotic subjects that you can find underwater.

CHECKING THE O-RING

Prior to each closure of the housing the O-ring should be visually inspected. If there is any debris present, including dirt, sand, dust, hair, grease or other matter, it must be cleaned to insure a proper watertight seal. Cleaning the O-ring is a simple matter of wiping it with a damp, soft cloth to remove the foreign matter. Be careful the cloth you use does not leave any of its own material behind as this can also affect the effectiveness of the seal. When replacing the O-ring, place it back into the groove starting at the same corner and gently put it in by pressing it into the groove all around the housing until it is all sitting in the groove and no part of it is sticking up or out of the groove. You can then apply a slight layer of silicone if you have not done this yet. Be sure it is completely seated in the channel for a proper seal.

| | |
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| Note | Lubrication of an O-ring does not improve the seal. It only reduces the amount of friction on the O-ring when it is being moved into sealing position. The amount of lubrication required on the O-ring is only enough to allow it to slip into place 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. |
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CLOSING THE HOUSING

1. Place housing back over front and align the complete mating surface of the housing and the O-ring, forming a proper seal.
2. Position all four latches over latch hooks in ready position.
3. Close all four latches at one time. If it is not possible to close all four latches at the same time, close the bottom latches first, maintaining pressure on the other side. Then close the two top latches simultaneously. Test all latches carefully to make sure that they are completely locked into place and not just pushed down. Try to open them to make sure that they cannot open accidentally.

4. Inspect the O-ring for proper closure. A complete seal can be visually confirmed by the O-ring around the complete circumference of the housing.
5. Always take the first dive without your camera in the housing just to make sure there is no leakage from damage to the housing. During the dive—especially at the beginning of descent—take special care to look at the housing to make sure no bubbles are escaping from it and that no water is entering. Generally, if there is a problem with the seal, you will discover it in the first seconds of the dive.

VIEWING THE SUBJECT

The P5000 and P5100 cameras feature a large 2.5 inch LCD viewing monitor for composing photographs. The LCD monitor will allow you to see your subject in sharp focus and framed properly. Hold the camera housing in your outstretched arm at a position that is both comfortable and also allows you to easily see the LCD monitor, for best compositional options.

TAKING THE PICTURE

Once you have composed your scene or subject in the LCD monitor, depress the shutter release button to take the picture. A half depress will activate the live viewing ability of the LCD and allow the camera to focus, once in focus and ready to shoot a green light will appear on the LCD monitor and the camera is ready to take the picture. Press down the shutter all the way to complete image capture. You may notice a pre-flash and slight delay in the shutter release. This is to allow the camera to make its final focus and exposure calculations before taking the picture. With a little practice, you will become used to this and taking pictures of moving subjects will become easier and natural.

CHOOSING IMAGE FILES

There are several image file options to choose from that offer different resolution and file sizes. This determination must be made prior to camera insertion from Menu options. Please refer to the Coolpix instruction manual for details on setting these preferences.

BATTERY LIFE

Rechargeable Lithium-ion battery EN-EL5

The P5000 and P5100 cameras make use of a Rechargeable Lithium-ion battery EN-EL5, which is capable of shooting approximately 250 shots on a single charge.

There are certain things that users can control to help extend battery life. It is recommended to set the camera to turn the LCD off after 30 sec of non use. This helps to conserve battery power as well as helps to prevent condensation inside the housing. It can then be automatically turned back on if you depress the shutter release control half way. Please refer to the Coolpix instruction manual for details on how to make this adjustment setting. It is always wise to have backup batteries in case you do run out of power. The supplied battery can be recharged many times and offers an economical and environmentally friendly power source.

USING THE FLASH

The Coolpix has a built-in flash, which will illuminate nearby underwater subjects. For subjects that are farther away, an accessory slave flash is recommended (See Below). A built-in flash diffuser is supplied which will help achieve a wider and softer light source thereby providing more coverage and less likelihood of *backscatter* (the unattractive snowstorm affect of the flash reflecting off the suspended particles in the water). Further reduction of *backscatter* can be achieved by using an accessory off-camera slave flash. This will be discussed in more detail.

The need for artificial light to maximize color reproduction is necessary in nearly all pictures. Therefore it is strongly recommended that you set the flash mode to *Flash Always*. This will insure the flash fires on every exposure regardless of the ambient light conditions (Please refer to the camera's instruction manual for more details).

Outdoor photographers do not have this same concern. There is no backscatter to be concerned with, and due to the ability of the flash to travel farther and more effectively in air as compared to water, there is normally not a need for an accessory flash to provide proper illumination for most subjects.

ACCESSORY SLAVE FLASH

If you use the Coolpix built-in flash as the master, you can trigger a second *slave* flash to provide more artificial light when needed. To do this, you must use an accessory flash that has a *slave* feature built in. The flash from the Coolpix must be aimed or bounced toward the accessory flash's *slave* sensor, or other fiber optic sensor. This will trigger the slave to fire in sync with the master flash.

When using an accessory slave flash with fiber optic cable, it is recommended to black out the internal camera flash. The internal flash is located near the camera lens and can contribute to backscatter by illuminating floating particles close to the lens port.

If the sensor of the fiber optic cable is attached to the outside of the housing directly above the internal flash and taped over with black tape—it will block out the light from the internal flash but transmit the light pulse to the external slave flash

Note

Be sure to use a slave flash that has the ability to ignore the built-in pre-flash in digital cameras, and synchronizes with the shutter release.

LENS ACCESSORIES

The Fantasea FP-5000 features a 46mm threaded lens port. This thread port is designed to work with some of the wide-angle and macro adapters that are currently on the market. Fantasea Line offers the following lens accessories:

- FWAL-01 Wide Angle Lens: an accessory Wide Angle Lens which fits over the housing port and can be installed and removed during the course of the dive.
- Red Filter 46 - fits over the housing port and can be installed and removed during the course of the dive. The filter is mounted on the housing lens port and held in place by screw thread.

For more information on these items, see your local photo dealer or visit our website at www.fantasea.com

FANTASEA COOLPIX ACCESSORY SYSTEMS AND SETS

Fantasea offers a variety of Coolpix (and other housings) sets made up of quality accessory products, which serve to enhance and improve your underwater images. Products like external flash systems, flexible arms, trays, filters, wide angle and macro lenses, fiber optic cables and more. Below you can see one sample system. For more information please refer to our website or to the Fantasea Dealer where you purchased your housing.



SHOOTING TECHNIQUES

EXPOSURE MODES (PRE-SET BEFORE CAMERA INSERTION)

There are several exposure modes [16 different *Scene* modes] for photographers to choose from, depending on the situation. Underwater it is recommended that you shoot in the Manual mode on the camera in which you can manually control ambient light and artificial light according to the lighting conditions. You can also select different light meters to use, based on the situation and your personal preferences. Additionally, you can choose the Manual White Balance setting for color temperature control, or experiment with some of the other modes to see which will work best underwater. These settings do not have to be made ahead of any dive, as they can be accessed through the housing controls while underwater.

Please reference the Coolpix instruction manual for details on how to set these camera options, and under what conditions the different choices would be used.

ZOOM CONTROL

Zoom in for telephoto photos and larger subject size. Zoom out for wide-angle scenes. It is generally not recommended to use the zoom underwater as it is preferable to get physically closer to your subject. The digital zoom has no value at all.

MACRO FOCUS

For capturing the tiny and exotic subjects that require close focus. Macro focus is possible when the lens is in the wide-angle position.

QUICK REVIEW

Immediate review of most recent image is available that will confirm that you captured the shot you want. However, if you want to scroll through your images, or delete images from the memory card, this should be done when you are topside and the camera is out of the housing.

CAMERA STANDBY MODE

You can access the camera's menu to choose the length of the period of inactivity before the camera goes into *standby mode*. Options are 30 seconds, one minute, five minutes, and 30 minutes. This feature allows you to conserve battery power by placing the LCD monitor on standby [sleep mode]. It is recommended that this option is set for 30 seconds to conserve battery power. If set for longer periods of time the LCD screen will heat up and that will produce condensation and fogging of the lens port. Condensation on the lens port will have a negative impact on the quality of the images taken.

When you want to resume shooting, pressing any button will re-activate the camera. However, if after the camera goes into standby, a further period of three minutes goes by without any activity, the camera will turn off [deep sleep mode]. You can turn it back on by pressing the On/Off Power button. The Welcome to Nikon Coolpix screen will appear then it will display last image taken.

CARE & MAINTENANCE

The Fantasea FP-5000 housing requires only a minimal amount of care for reliable performance. The following tips will enable you to get the best results.

1. Always rinse your housing with a strong stream of fresh water and if possible soak housing in fresh water tub or rinse tank for about 20 minutes after every dive in order to dissolve the salt-water crystals from around the controls and openings of the housing. Manipulate each of the movable controls to assist the removal of salt particles from these tight areas.
2. Allow the housing to dry thoroughly before packing away for the day or for the trip home. You may use a soft towel or cloth to dry the housing. Be sure there is no grease or other debris on the towel.
3. Visually check the condition of the O-ring before every dive. If it is dirty, clean it with fresh water and dry it with a soft cloth as described above. If it is damaged in any way, such as cut or perforated, replace it immediately.
4. It is recommended to periodically lubricate the housing's O-ring, using a small amount of silicon grease. It's important to note that the amount of lubrication required on the O-ring is only enough to allow it to slip into place 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.
5. Be careful not to get greasy fingerprints or dirt on the lens port. This will affect the image quality. Wipe any dirt or grease off with fresh water and a soft cloth.
6. Do not drop the housing on hard surfaces. It is not a shock absorber, and could crack, affecting its watertight integrity. It could also cause damage to the camera inside.
7. Travel with the housing protected in a padded case. It is best to remove the camera from inside the housing when traveling and provide it with its own protective case, or compartment.
8. Never dive with the **Fantasea** FP-5000 housing to a depth greater than 200 ft/60 meters.
9. It is recommended that you select the shortest time option on the menu, for placing the camera into standby during periods of inactivity. This will conserve battery power and reduce the heat given off by the LCD screen, which can contribute to condensation inside the housing and fogging.

10. It is strongly recommended to take the first dive without the camera inside the housing. You should check that the water tight seal has not been affected during transport and long periods of storage.
11. It is likewise recommended to visually monitor the housing during every descent, especially for the first 10 meters/33 ft. If water is observed entering the housing or bubbles escaping from it, the housing should be rotated to a *port down position* and held that way as you return to the surface immediately and get out of the water.
12. **It is recommended to have annual maintenance of all Fantasea housings.** This includes visual inspection and possible changing of all seals / gaskets / o-rings. It is recommended to use an authorized Fantasea Service Center for this purpose. For more information, please contact Fantasea Line by email: service@fantasea.com , or visit the Fantasea web site www.fantasea.com.