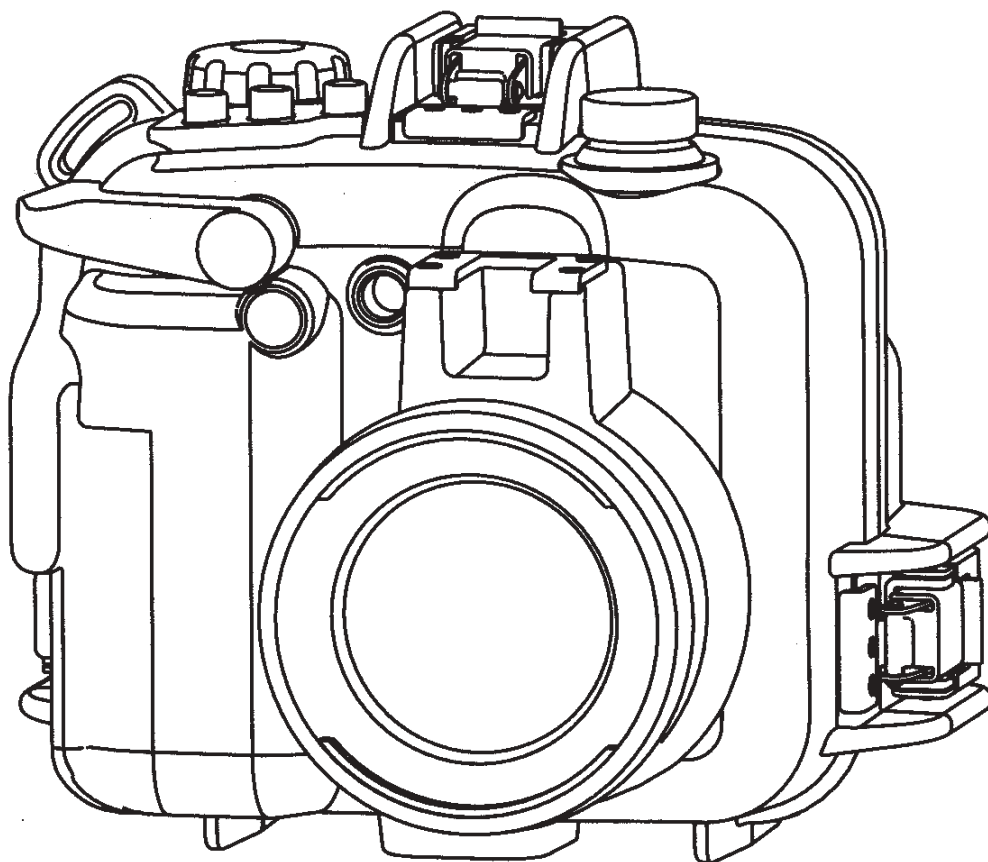


SEA&SEA

***UNDERWATER DIGITAL
CAMERA HOUSING***

DX-5000

Instruction Manual



DX-5000

Underwater Housing for Nikon Coolpix 5000

Instruction

Thank you and congratulations on your purchase of Sea & Sea DX-5000. Sea & Sea DX-5000 is a digital camera housing designed for use with NIKON Coolpix 5000 Digital Camera and depth rated at 200 feet (60m). Please read this manual before use and retain for your future reference.

Index

| | |
|--|----|
| Safety Precautions | 2 |
| Handling and Maintenance of the O-Ring | 3 |
| Identification of Parts | 5 |
| Opening and Closing the Locking Latch | 6 |
| Mounting the Camera to the Housing | 6 |
| Connecting the Strobe Connector | 7 |
| Attaching the Light Trap Hood | 7 |
| Attaching the Accessories | 8 |
| Attaching the Lens | 8 |
| Connecting the Optic Fiber Cable | 9 |
| Using the Desiccant (Silica Gel) Pack | 9 |
| Specifications | 10 |

Safety Precautions

※ Misuses listed under the following precautions categorized as “Warning!” or “Caution!” could lead to serious consequences. Please observe the precautions as they contain highly important information related to personal and product safety.

Definition:



CAUTION! Situations that could result in property damage, personal injury or deterioration in product quality and reliability.

■ General Precautions for the Housing



CAUTION!

- Always make sure that the strobes and accessories are securely mounted to prevent them from falling off, getting lost, causing personal injury or equipment malfunction.
- Do not carry or swing the housing by the strap. Take care not to drop it. Violent impact can severely damage the housing.
- Do not open the housing or replace videotapes in a wet or sandy environment. Protect the interior from moisture and debris in order to prevent malfunction.
- Do not alter or modify the housing. User modifications can result in flooding or malfunction. User modifications will void the warranty.
In the event of flooding, discontinue use immediately. Turn off the power of the camera, strobe and light, and bring the housing to an authorized Sea & Sea dealer for evaluation and repair.
- When flooded, beware of increased pressure inside the housing. When opening the cases, handle with extreme care and be prepared for water squirting and cases jumping.
- Always rinse this product with fresh water after use. Rinse with the port attached so that the inside will not get wet.
- When rinsing without the strobe, use the connector cap to seal the connectors.
- Handle this product carefully so as not to scratch the port surface or the finder window.
- Always dry the port surface and finder window with a soft cloth to prevent salt residue from marring the window surfaces.
- Never use petroleum solvents, such as alcohol or paint thinner, to clean the housing; such products might mar or otherwise damage the port, finder window, and the housing's finish.
- This product has been constructed with an airtight seal. When packing this product for airplane travel, remove the port to alleviate pressure build up due to atmospheric changes.

- SEA & SEA Products Ltd. will not be responsible for unobtained pictures or costs related to the shooting of such pictures due to malfunction of the housing, camera, strobe or accessories.
- This product incorporates plastic parts. Do not subject this housing to extreme heat, such as on a car dashboard, or in direct sunlight. Plastic parts are prone to warping.
- SEA & SEA Products Ltd. will not be responsible for any damages, repairs or replacements of the camera, lenses or accessories used with this housing due to flooding caused by user mishandling.
- Please understand that during the use inside the housing, your camera and its dials and buttons may get scratches from the friction with the housing.

■ Precautions for Storage of the Housing



CAUTION!

- To prevent mildew and malfunction, do not store in a damp or humid environment.
- Do not store in a chemically laden environment. Naphthalene, camphor, or other harmful chemicals can cause mildew, corrosion and other damage to the metal and rubber parts in this product.

Handling and Maintenance of the O-ring

The O-ring on the front case of your housing provides an airtight waterproof seal. Improper handling and maintenance of the O-ring can cause flooding. To maintain its full performance, please observe the following precautions carefully.



CAUTION!

Blue O-rings are used for some Sea & Sea products. The blue O-rings are specially processed to contain silicone oil inside. Over time, the silicone oil gradually steeps out to maintain moisture on the O-ring. For maintenance of this blue O-ring, use Sea & Sea silicone grease (in a tube with BLUE cap and lettering). Never use Sea & Sea grease in a BLACK cap tube or grease of other brands. Due to the special characteristics of the blue O-ring, the applied silicone grease gets absorbed inside and the O-ring loses its waterproof feature. When you have accidentally applied such grease onto a blue O-ring, you need to replace the O-ring. When an O-ring is not greased, it does not allow the case to open and close smoothly and may cause flooding. So always check the O-ring for grease.

- **Always inspect the O-ring for scratches, cracks or cuts.**

If the O-ring is damaged, it must be replaced. Never remove the O-ring with a sharp tool. To avoid damaging the O-ring, use the O-Ring Remover, a tool especially made for O-ring removal.

- **Inspect for debris.**

Make sure that there are no foreign particles, such as dust, sand or hair on the O-ring, O-ring groove, or O-ring contact surface. Such contamination will breach the seal and cause flooding. If necessary, wash the O-ring thoroughly in fresh water and dry with a lint-free cloth. Use a cotton swab to clean the O-ring groove and contact surface.

- **Lubricate with silicone grease.**

Silicone grease protects the O-ring from drying and abrasion. Dab a small amount of grease onto your finger and draw the O-ring through your fingers until evenly coated. Use the silicone grease sparingly. Too much grease attracts debris.

- **Do not crimp the O-ring.**

Hold the O-ring straight and do not bend or twist it when fitting it into the O-ring groove.

- **O-ring storage.**

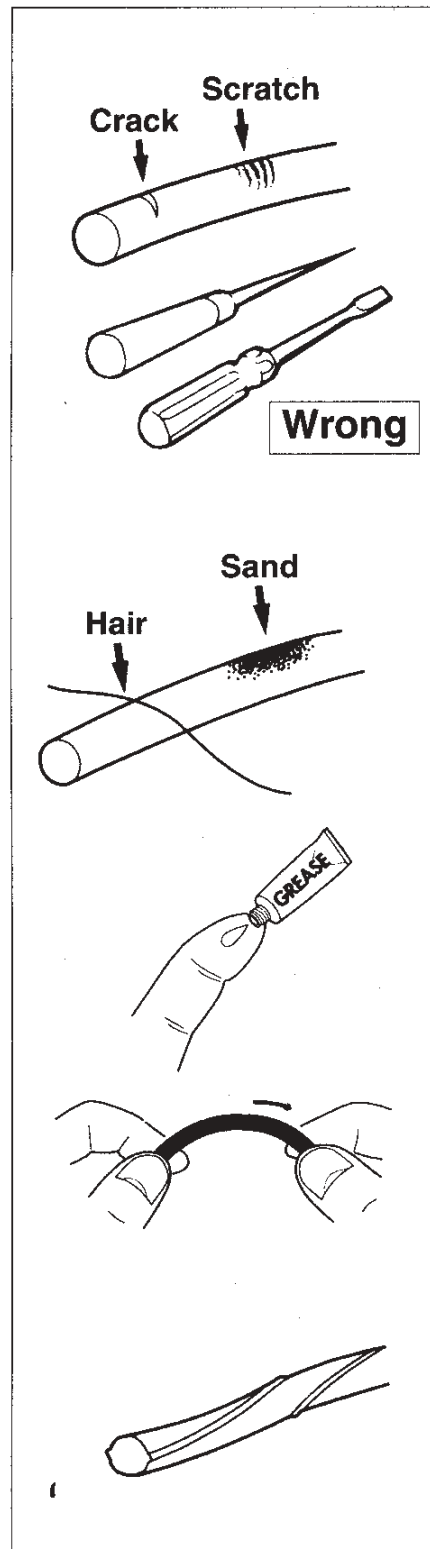
Always store your O-ring in an airtight container and in a cool environment. Keep out of direct sunlight. Take care that it is stored flat and not bent or twisted. Do not place any heavy objects on it; excessive weight will flatten it and impede its sealing capability.

- **The O-ring's life is one year.**

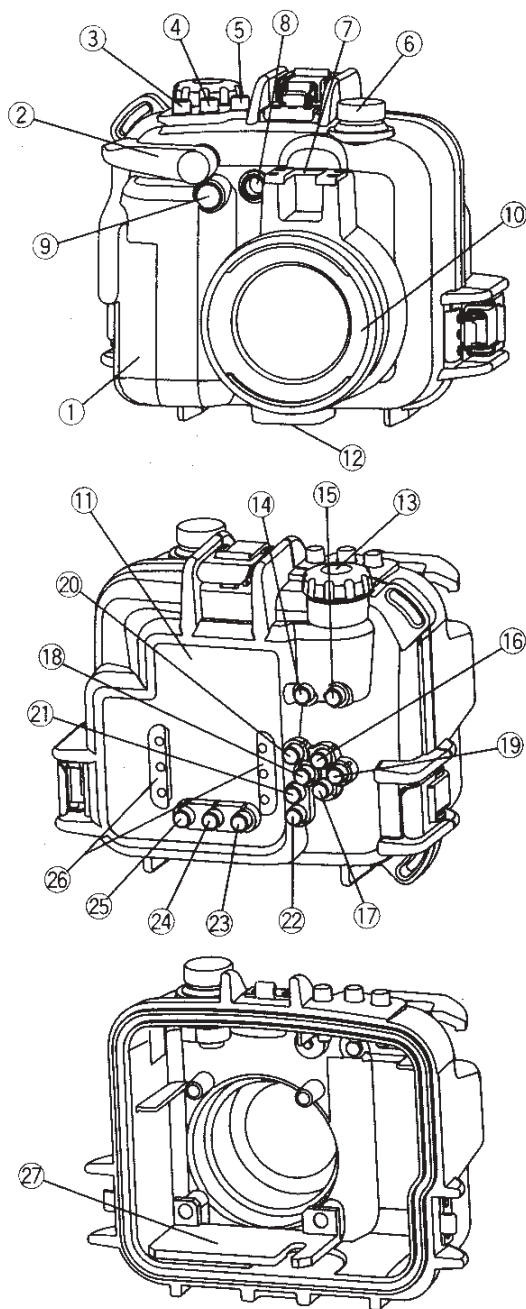
The life of the O-ring depends on the diligence of your maintenance, frequency of use, and storing conditions, but on average, if you maintain your O-ring properly, it will retain its watertight integrity for one year.

- **Remove the O-ring for inspection.**

Before use, remove the O-ring from its groove and carefully check the O-ring, the O-ring groove and the O-ring contact surface. A thorough examination of the O-ring and O-ring groove is not possible unless the O-ring has been removed.

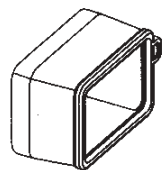


Identification of Parts



- ① Front case
- ② Release lever
- ③ Exposure compensation button
- ④ Exposure mode button
- ⑤ Function button
- ⑥ Strobe connector
- ⑦ Accessory shoe
- ⑧ Fiber cable connector
- ⑨ Light level sensor
- ⑩ Standard port
- ⑪ Rear case
- ⑫ Tripod hole
- ⑬ Command dial
- ⑭ Zoom button W (Wide)
- ⑮ Zoom button T (Telescopic)
- ⑯ Multi selector button ▲ Up
- ⑰ Multi selector button ▼ Down
- ⑱ Multi selector button ◀ Left
- ⑲ Multi selector button ▶ Right
- ⑳ Speed light mode/sensitivity change button
- ㉑ Focus mode/manual focus/delete button
- ㉒ Picture quality/picture size button
- ㉓ Quick review button
- ㉔ Menu button
- ㉕ Monitor button
- ㉖ Light trap hood base
- ㉗ Camera pedestal plate

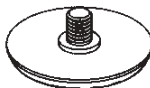
Accessories



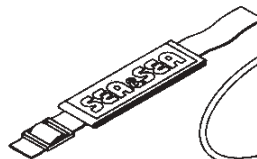
Light trap
hood



Silicon
grease



Pedestal
screw



Strap



O-ring



O-ring
remover

Opening and Closing the Locking Latch

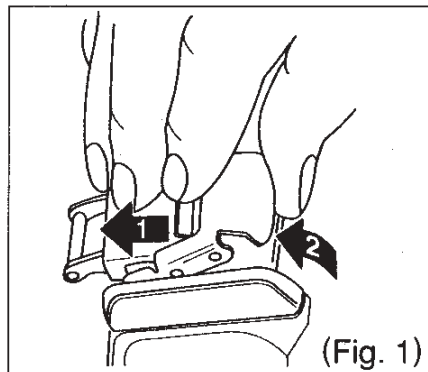
<Opening the Locking Latches>

1. Hold the rear case with one hand. Release the locking latch while pressing the lock. (Figure 1)
2. At this time, try re-locking the latch with the hook disengaged. The rear case will easily come off. (Figure 2)



CAUTION!

- When opening the housing, be careful not to pinch or injure your fingers with the latches.



(Fig. 1)

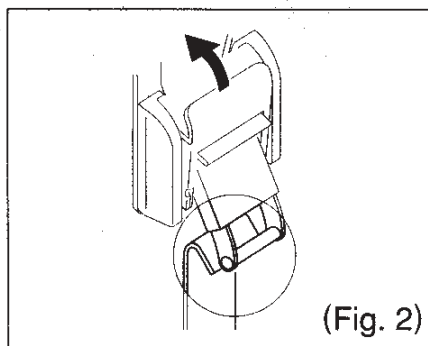
<Closing the Locking Latches>

1. Press the rear case onto the front case and lock the latches on both sides simultaneously.
2. Then lock the latch on top. Make sure that the case is not twisted or slanted and that the case halves are aligned correctly.



CAUTION!

- Examine the O-ring and O-ring channel and make sure they are not scratched or contaminated with sand, hair, dust, etc.
- Make sure that the latches are securely locked.

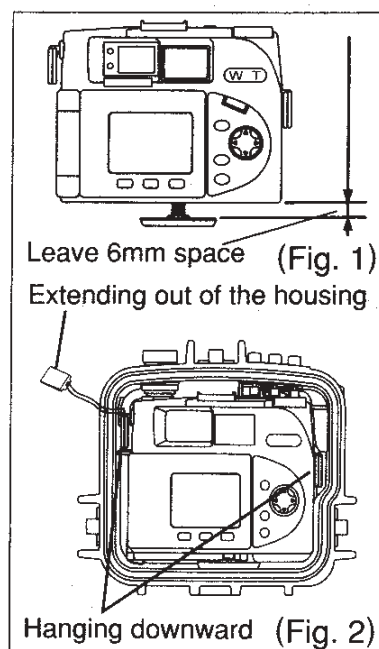


(Fig. 2)

Mounting the Camera to the Housing

<Mounting>

1. Remove the strap and lens cap if they are attached to the camera.
2. Turn on the power of the camera and insert the pedestal screw to the hole at the bottom of the camera. Turn it so that the distance between the screw head and the camera will be about 6mm. (Figure 1)
3. Align the pedestal screw to the slot of camera pedestal plate and slide the camera forward till it stops.
 - ※ At this time, make sure that strap clips on both sides are hanging downward. Sync cord should be extending out of the housing so as not to interfere with the camera sliding forward. (Figure 2)
4. While holding the camera from the backside, tighten the pedestal screw to fix the position of camera.
5. Insert the sync cord into the accessory shoe of camera.
6. Fit the rear case and close the locking latch.



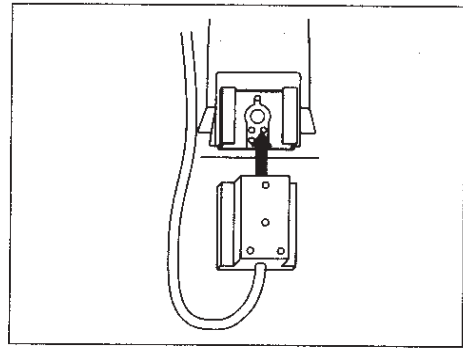
<Connecting the Sync Cord>

Insert sync cord as shown in the figure. Push it in till it stops.



CAUTION!

Connect and disconnect the cord holding the connector. Do not push, pull, twist or bend the cord. Abusive handling can damage the cord.

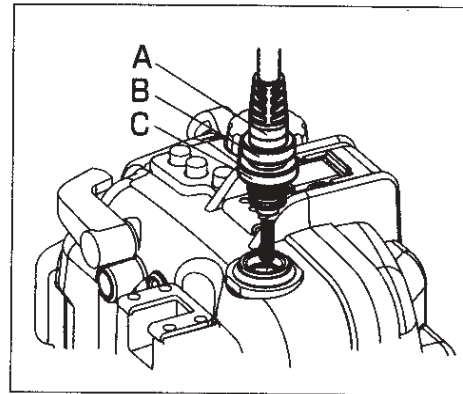


<Dismounting the Camera from the Housing>

1. Pull out the sync cord.
2. Release the pedestal screw.
3. Slide the camera backward and pull it out of the housing.

Connecting the Strobe Connector

1. Remove the bulkhead connector cap.
2. Make sure that the connector contact pins are clean.
3. Align the yellow mark on the strobe connector with the nick on the housing side connector. Then push the strobe connector in.
4. Turn part "B" till the connector is firmly fixed.
5. Turn part "C" until the connector is locked into place.
6. To remove the connector, loosen part "C", then part "B", and pull part "A" straight out.



CAUTION!

- To remove the connector after use underwater, turn the housing upside down, and then pull out the connector. This will prevent water from dripping into the bulkhead connector. If it gets wet, dry off immediately.
- Use only compatible strobes for this housing. Use of incompatible strobes may cause malfunction of the housing.

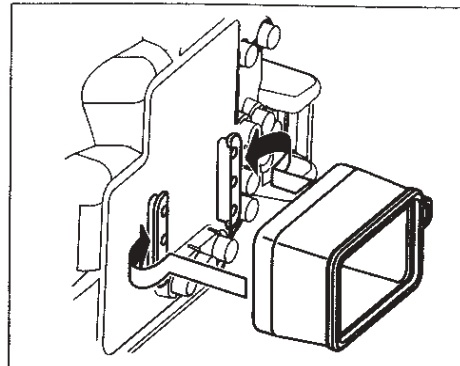
Attaching the Light Trap Hood

- Push the side edges of the light trap hood into the hood holder as shown.



CAUTION!

- Do not hold the light trap hood to carry the housing. It may come off and the housing may fall down.



Attaching the Accessories

DX-5000 accepts Sea & Sea accessories that are sold separately. By using DX-5000 in combination with optional accessories, you will be able to try various shooting techniques.

CAUTION!

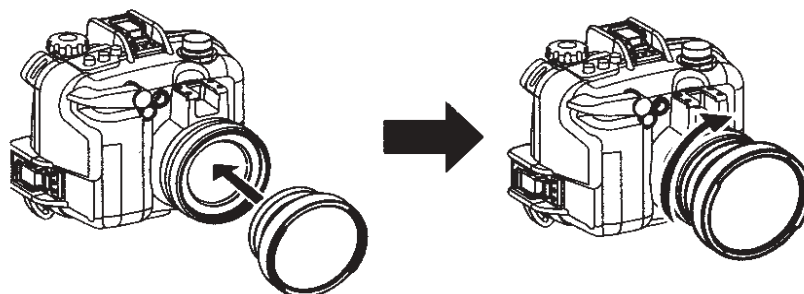
- Lenses, strobes and other accessories have different depth rating. Check the depth rating before you use the accessories.
- Read the instruction manuals of the accessories before using them.

Attaching the Lens

DX-5000 accepts Sea & Sea lenses that are sold separately.

<Attaching the Lens>

Fit the lens to the front of the housing so that the markings on the lens and the housing meet. Then turn the lens until you feel a click.

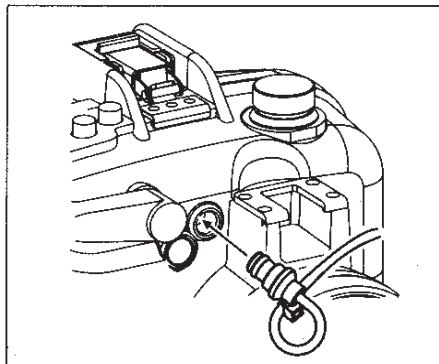


CAUTION!

- The depth of field indicated on the lens is not applicable to digital cameras.
- When you start using a new lens, release or shake it in the water to eliminate bubbles between the housing and the lens.
- When a Sea & Sea conversion lens is mounted on the DX-5000 standard port, vignetting might occur depending upon the position of the lens. If vignetting occurs, turn the standard port counterclockwise until the vignetting disappears (up to 180 degrees from the position where the port is fully tightened) or adjust zoom to tele slightly until vignetting disappears. Do not turn the standard port more than 180 degrees from the position where the port is fully tightened. Turning more than 180 degrees could cause flooding.
- When detaching a conversion lens underwater, the standard port might be loosened and as a result, the housing might take water in. Therefore, hold the port to prevent it from turning when detaching a conversion lens underwater.

Connecting the Optic Fiber Cable

DX-5000 has a receptacle for an optic fiber cable to connect a Sea & Sea external strobe. To use an optic fiber cable, plug the cable fully into the receptacle as shown.

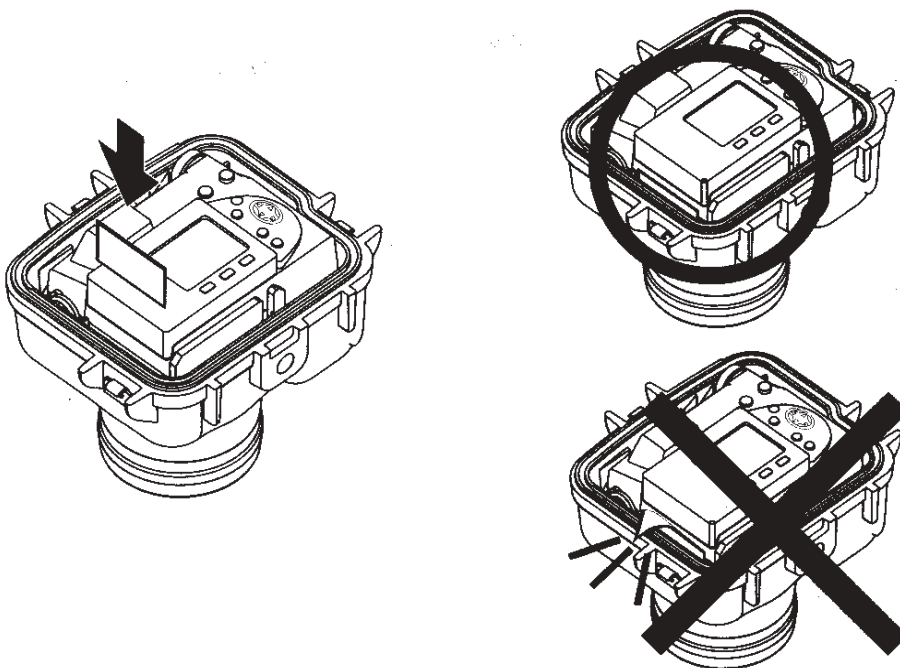


CAUTION!

- Since the optic fiber cable conveys the light of the built-in strobe to the external strobe, the system may not work properly if the cable receptacle is dirty. Before using the optic fiber cable, make sure that the receptacle and the cable plug is free from salt residue or sand.

Using the Desiccant (Silica Gel) Pack

- (1) Mount the camera to the housing.
- (2) Place the desiccant pack at the location shown below.
- (3) Close the rear case.



Wrong

CAUTION!

- Make sure that the edge of desiccant pack is not covering the O-ring contact surface.
- When closing the rear case, make sure that the desiccant pack is not pinched between the rear and the front cases.

Specifications

【Compatible Camera】

NIKON Coolpix 5000

【Available Controls】

Release lever, exposure compensation button, exposure mode button, function button, command dial, zoom button, multi selector, speed light mode/sensitivity change button, focus mode/manual focus/delete button, picture quality mode/picture size button, quick review button, menu button, monitor button

【Construction】

Front case: ABS resin

Rear case: Polycarbonate

【Depth Rating】

60m/200 ft.

【Dimensions/Weight】

155x134x131mm/6.1x5.3x5.2inches (WxHxD)

950g/2.1 lbs. (including the port)

【Compatible Strobes】

YS-90AUTO, YS-90DX, YS-25DX

【Accessories】

Light trap hood, silicon grease, pedestal screw, strap, O-ring, O-ring remover, desiccant (silica gel) pack

※Specifications and prices are subject to change without notice.