

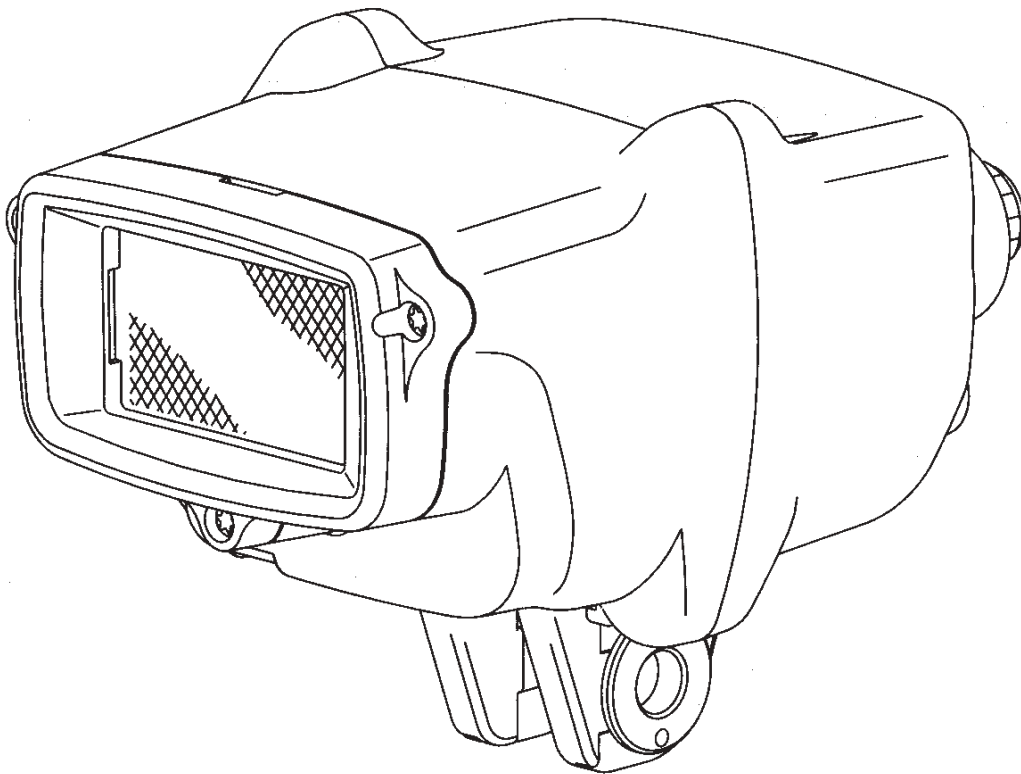
SEA&SEA



UNDERWATER STROBE

YS-25DX

Instruction Manual



— Yellow Sub —

YS-25DX

Instruction Manual

Thank you and congratulations on your purchase of Sea & Sea's YS-25DX Strobe. For proficient operation of all strobe functions and to maximize performance, please read this manual thoroughly before use. Retain for future reference.



Table of Contents

Safety Precautions	2
Handling the O-Ring	3
Identification of Parts	5
Operating the Controls	6
Installing the Batteries	7
Checking Synchronization	7
Taking Photographs	9
Sea Arm Fixing Bolt	10
Diffuser	10
Fiber Optic Cable	11
Specifications	15

Safety Precautions

- For safe and proper use of this product, please read the following precautions before use.

*Misuses listed under the following precautions could lead to serious consequences. Please observe the precautions as they contain highly important information related to personal and product safety.

-  **WARNING!:** Situations that could result in serious injury or death.
-  **CAUTION!:** Situations that could result in property damage or personal injury.

WARNING!

- Use only manganese, alkaline, nickel-cadmium or lithium batteries rated 1000mA or less in this unit. Do not use any other type of battery. Doing so may generate a toxic gas.
- Do not fire this strobe with the reflector facing down on a table or the floor as that may cause overheating of the internal circuitry and/or fire.
- Do not trigger the strobe near combustible materials. It may cause fire.
- Heat from the batteries may cause pressure buildup inside the battery compartment. When opening the battery compartment, the battery cover may release with unexpected force. To avoid injury, open with extreme care.

CAUTION!

- Do not open the battery compartment in a flammable environment.
- Always make sure that the strobes and accessories are securely mounted to prevent them from falling off, becoming lost, causing personal injury or equipment malfunction.
- Do not attempt to disassemble the strobe. Contact with internal high voltage circuitry can cause personal injury.
- Do not alter or modify the strobe. User modifications can result in flooding or malfunction. User modifications will void the product warranty.
- If you detect smoke or an acrid odor, discontinue use immediately. Remove

the batteries from the strobe and send the strobe to an authorized Sea & Sea dealer.

- In the event of flooding, turn off the strobe and camera. Discontinue use immediately. Remove batteries from camera and strobe. Send to an authorized Sea & Sea repair center for evaluation and repair.
- If flooded, beware of increased pressure inside the strobe. Handle with extreme care when opening.
- Always disengage the battery from the strobe after use. Possible battery leakage will cause equipment malfunction.
- SEA & SEA Products Ltd. will not be responsible for costs incurred for film and/or processing should malfunction of the YS-25DX strobe, camera or accessories result in unsatisfactory photographs.
- The YS-25DX strobe incorporates plastic parts. Do not subject this strobe to extreme heat, such as on a car dashboard, or to direct sunlight. Plastic parts are prone to warping.
- Do not store in a damp or humid environment. It can cause mildew or malfunction.
- Do not store in a chemically-laden environment. Naphthalene, camphor, or other harmful chemicals can cause mildew, rust, corrosion, and other damage to the metal and rubber components in this product.
- When storing the strobe for a long period of time, periodically attach to the camera and trigger the shutter release (with batteries and without film). This will exercise the internal parts and keep the strobe in good working condition.

Handling the O-Ring

The O-ring on the front case of your YS-25DX provides an airtight waterproof seal. Improper handling and maintenance of the O-ring can cause flooding. Please observe the following precautions carefully.



CAUTION!

A special silicone oil-impregnated blue O-ring is used in this product. For maintenance of this blue O-ring, use Sea & Sea silicone grease in a tube with BLUE cap and lettering. Never use Sea & Sea silicone grease in a tube with a BLACK cap or other manufacturers' brands. Incompatible silicone grease will cause the O-ring to lose its waterproofing ability. If you have applied incompatible grease on a blue O-ring, the O-ring must be replaced.

● **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.

● **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.**

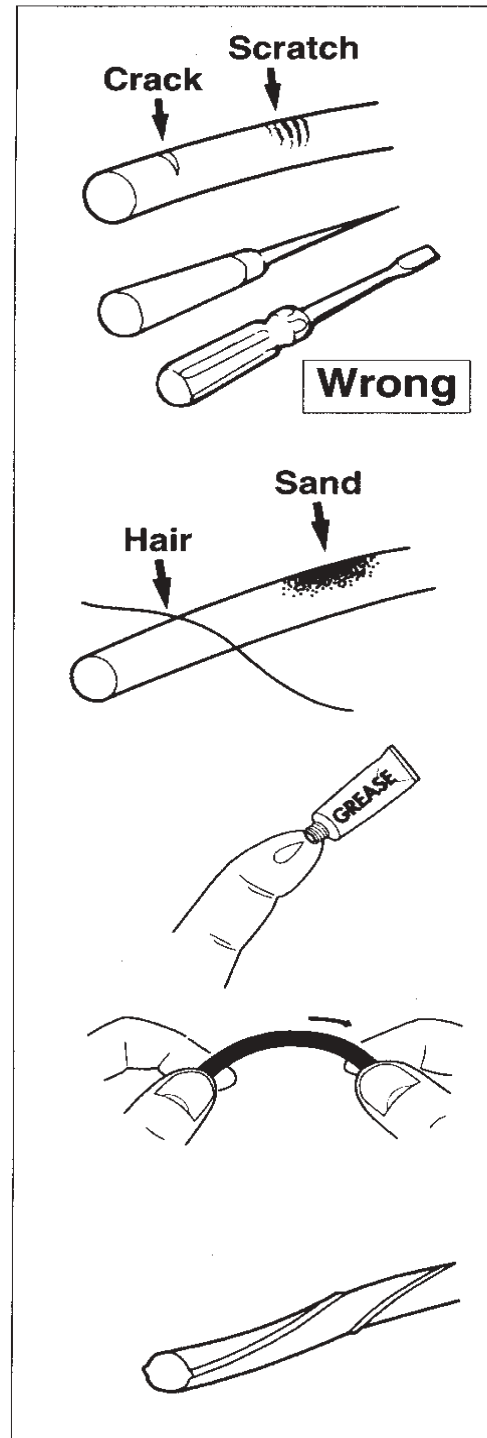
Always store your O-ring in an airtight container and in a cool environment. Keep out of direct sunlight. Take care that it is stored flat and not bent or twisted. Do not place any heavy objects on it; excessive weight will flatten it and impede its sealing capability.

● **The O-ring's life is one year.**

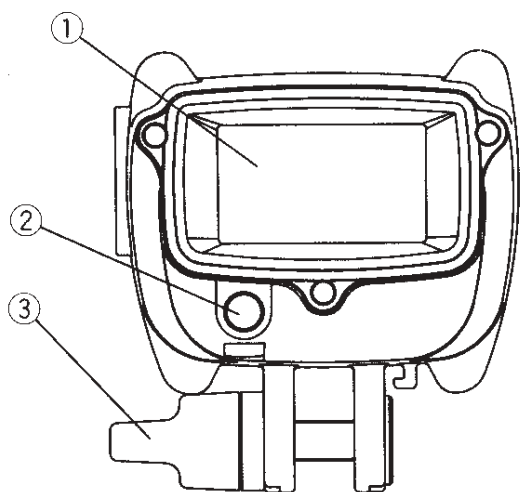
The life of the O-ring depends on the diligence of your maintenance, frequency of use, and storing conditions, but on average, if you maintain your O-ring properly, it will retain its watertight integrity for one year.

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

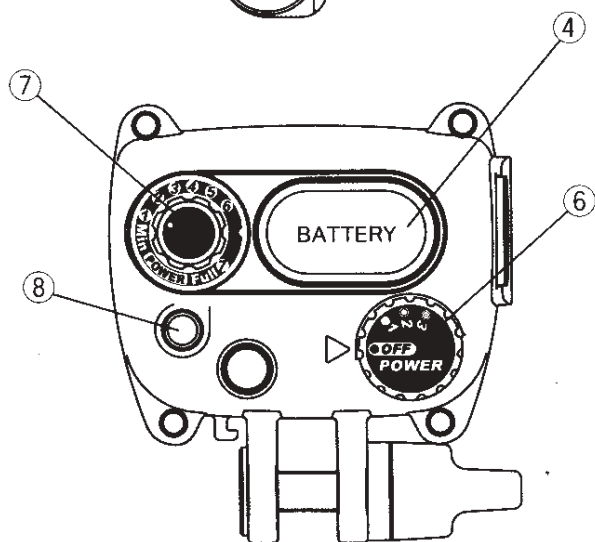
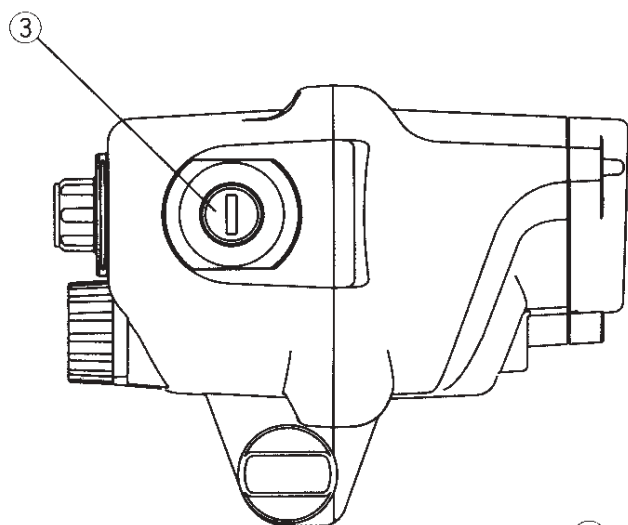
Before use, remove the O-ring from its groove and carefully check the O-ring, the O-ring groove, and the O-ring contact surface. A thorough examination of the O-ring and O-ring groove is not possible unless the O-ring has been removed.



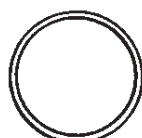
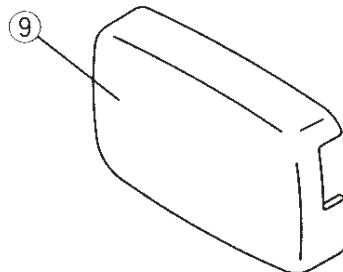
Identification of Parts



- ① Reflector
- ② Slave Sensor
- ③ Battery Holder Release
- ④ Battery Holder
- ⑤ Sea Arm Fixing Bolt
- ⑥ Power Switch
- ⑦ Light Level Control Dial
- ⑧ Ready Light
- ⑨ Diffuser



Accessories:



O-ring



Silicone Grease



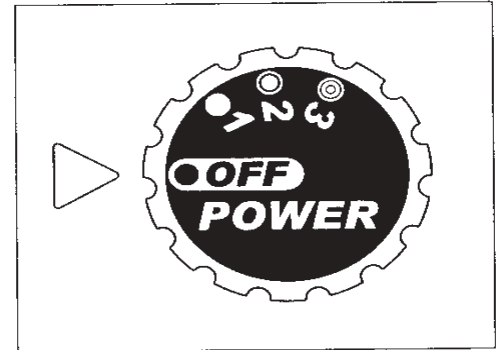
Batteries

Operating the Controls

<Power Switch>

"OFF" – Turns the power off. Set the rotary switch at this position when not in use.

- [1] – Select this position for cameras designed with no preflash
- [2] – Select this position for cameras designed with a single preflash
- [3] – Select this position for cameras designed with a double preflash

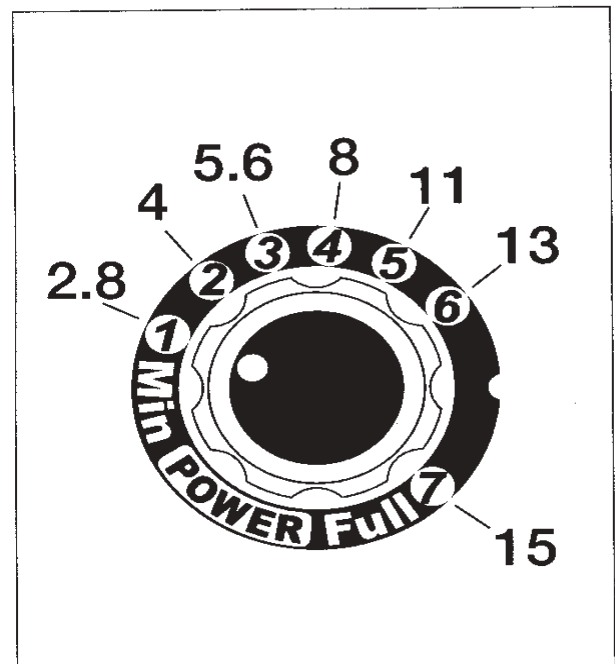


※ See "Checking Synchronization" on page 7 for details.

<Light Level Control Dial>

The Light Level Control Dial permits manual control of light output in seven increments. The higher the number selected on the dial, the greater the flash intensity. The figure at right shows the guide numbers represented by the numbers on the dial.

Important! To use this function, the Power Switch must be set at the "1", "2" or "3" position.



Note:

The guide numbers shown are the reference value on land (ISO100/m). Actual GN may vary depending on water conditions, visibility, subject reflectivity, time of day, etc.

Installing the Batteries

The YS-25DX is powered by two AAA alkaline batteries, nickel-cadmium or lithium batteries rated up to 1000mA.

- ① Using a coin, turn the battery holder release counterclockwise by 90° (1/4 turn). Pull out the released battery holder from the battery chamber.

<CAUTION!>

After use, hold the strobe with the battery chamber facing down in order to prevent water from penetrating the interior.

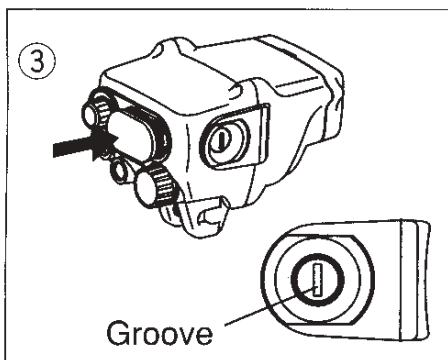
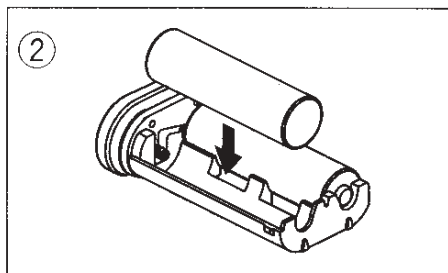
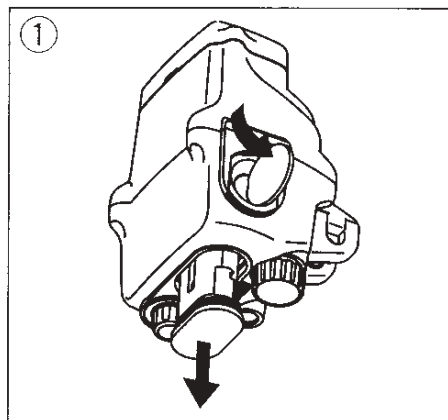
- ② Install the batteries according to the polarity shown on the battery holder.

<CAUTION!>

Make sure that there are no foreign particles, such as dust, sand or hair, in the battery chamber, on the O-ring, and on the O-ring channel. Make sure that the O-ring is not crimped, twisted, scratched, and is securely in its channel.

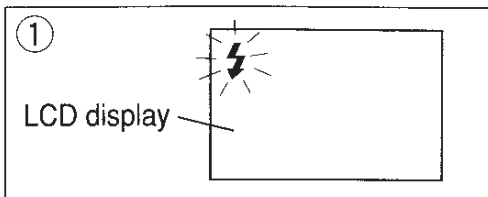
※ See "Handling the O-Ring" on page 3.

- ③ Insert the battery holder back into the chamber and push until the battery holder clicks into the "locked" position, with the coin groove vertical, as shown.



Checking Synchronization

The YS-25DX flashes by sensing the light from the your digital camera's built-in flash. Before using the YS-25DX, be sure to set the built-in flash to "forced flash" mode or "On" (usually indicated by a lightning bolt symbol). In this mode the flash is set to fire regardless of the surrounding brightness. Then check the synchronization between the YS-25DX and the built-in flash by following the procedure described below. Note: The preflash function is used by the camera to determine focus, proper exposure, and correct color balance. The number of flashes may vary depending on the make and model of the camera.



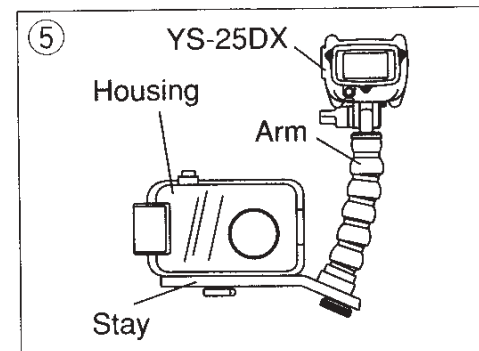
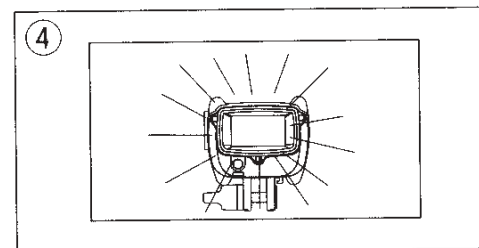
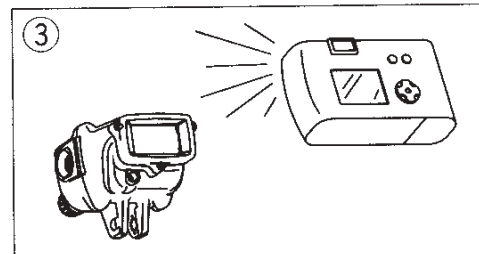
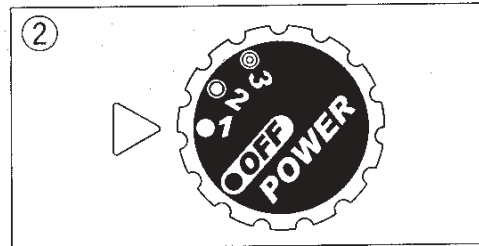
- ① Set your camera's built-in flash to forced flash mode.
- ② Set the power switch on the YS-25DX to "1".
- ③ Hold the camera away from and facing the strobe as shown and release the shutter. (Appropriate distance between the YS-25DX and the camera should be 50cm/20 inches or more.)
- ④ Review the image on the camera's LCD display. If the strobe is synchronizing properly, the image should be washed out from the flash.

In this case, your camera will properly synchronize when the power switch is set to "1".

If the image is not washed out, then the strobe has not synchronized with the camera. Set the power switch at the "2" or "3" position and repeat the above steps 3 and 4. Synchronization has been achieved when the image on the LCD is washed out.

Once you determine the correct number setting for synchronization, set the power switch to that number every time you use the camera.

- ⑤ Confirm the synchronization setting by repeating the test after you have assembled your underwater system, including the camera, housing, stay, arm and strobe.



Note:

- The preflash from your camera is so rapid that it may not be visible. Confirm synchro-nization by conducting the above test.
- The number of flashes during preflash may change when the camera is used in a different mode. Check the synchronization when you change the camera mode.
- Under certain water conditions and camera-to-strobe distance, the camera's built-in flash may not trigger the YS-25DX. In that case, use the Sea & Sea Fiber Optic Cable for the YS-25DX (product #16990, sold separately).

Taking Photographs

- 1) Set the camera's flash to "forced flash" mode or "On" (usually indicated by a lightning bolt symbol).
- 2) Turn the power switch on the YS-25DX to the correct synchronization setting. See "**Checking Synchronization**" on page 7 for details.
- 3) Adjust the light level control dial to "4" or to a more suitable number determined by the underwater environment, distance from the subject, or camera settings.
- 4) Take a picture.
- 5) Check the resulting image on the LCD display of the digital camera.
- 6) Depending on the result, follow the steps below:

<When the picture is too bright>

The image is overexposed. Turn the light level control dial one step counter-clockwise and try again.

<When the picture is too dark>

The image is underexposed. Turn the light level control dial one step clockwise and try again.

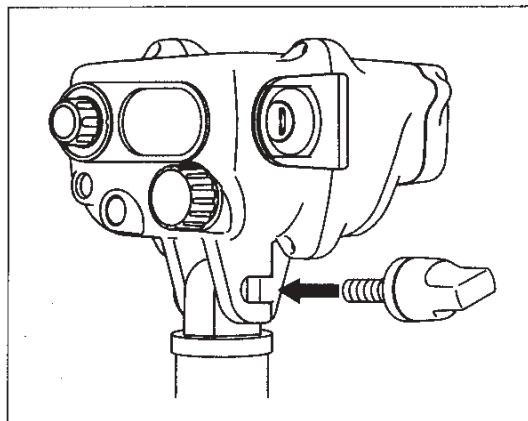
Follow the steps above until you get a correct exposure.

If the exposure is too bright at the minimum power setting, try the following:

- * Use the diffuser (included in this package). The diffuser will soften the light by one f-stop and provide a better exposure.
 - * Adjust the strobe position by moving it further away from the subject
 - * Adjust the ISO setting on the camera to a higher number.
- If the image is too dark, move the YS-25DX closer to the subject.

Sea Arm Fixing Bolt

To mount the YS-25DX to an arm, use the fixing bolt (included in this product package). Insert the bolt through the nonthreaded side, as shown.



Diffuser

<Attaching the diffuser to the strobe>

To attach the diffuser (included in the product package) to the YS-25DX, fit and press it to the front of the strobe so that the tabs on the diffuser snap into the grooves on the strobe, as shown (Figure 1).

⚠ CAUTION!

Always make sure that the diffuser is properly attached before use. If not properly attached, it may fall off.

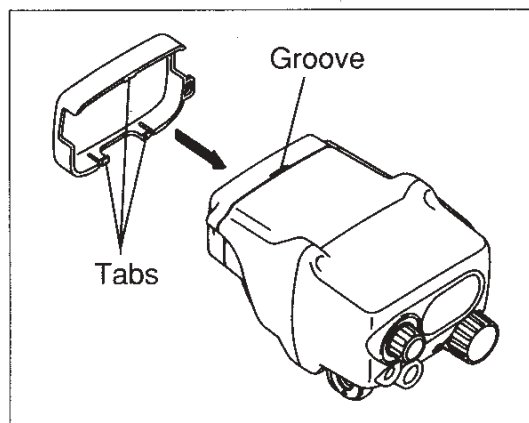


Figure 1

<Detaching the diffuser from the strobe>

To detach the diffuser, push the large tabs on the bottom forward, as shown (Figure 2).

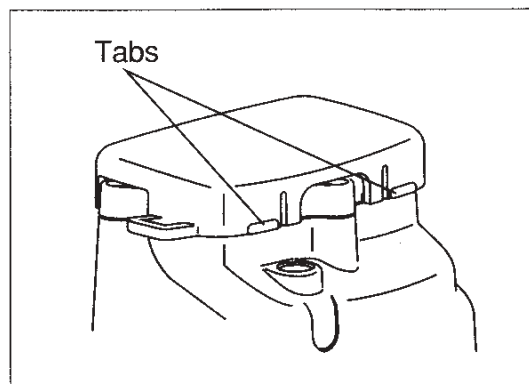


Figure 2

Fiber Optic Cable

Use Sea & Sea's Fiber Optic Cable for the YS-25DX (product #16990, sold separately) when the YS-25DX cannot make cordless synchronization with the camera's built-in flash.

<Connection>

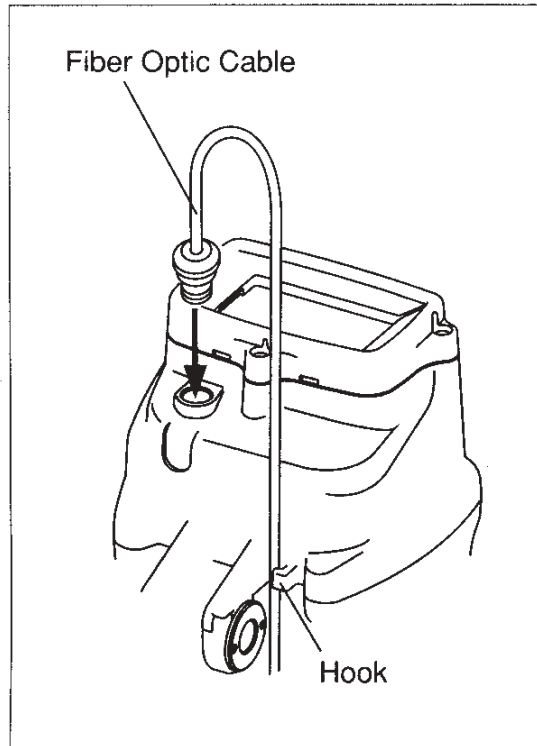
1) Insert one end of the fiber optic cable into the slave sensor socket of the YS-25DX, as shown.

2) Secure the cable by the hook, as shown.

__ Connect the other end of the cable to the housing. Refer to the instruction manual for the fiber optic cable for instructions..

CAUTION!

Read the instruction manual for the fiber optic cable before use.



Specifications

- **Controls and Functions:**

Operation: <Power Switch> OFF, 1, 2 and 3
<Light Level Control Dial> 1 through 7
(7 steps)

- **Guide Number (ISO 100/m/land):** 15 (full flash)

- **Lighting Angle:** 70° x 80° (full flash)

- **Color Temperature:** 5600°K (full power)
4300°K (full power with diffuser)

- **Battery Life:** Approximately 200 flashes
(with AA alkaline batteries at full flash)
Approximately 100 flashes
(with AA Ni-Cd batteries at full flash)(at700mA)
Approximately 350 flashes
(with AA lithium batteries at full flash)

- **Recycle Time:** Approximately 5 seconds
(with AA alkaline batteries at full flash)
Approximately 5 seconds
(with AA Ni-Cd batteries at full flash)
Approximately 5 seconds
(with AA lithium batteries at full flash)

- **Batteries Requirements:** 2AA alkaline batteries (1.5V x 2 = 3V),or
2AA Ni-Cd batteries (1.2V x 2 = 2.4V),or
2AA lithium batteries (1.5V x 2 = 3V),or

- **Depth Rating:** 50m (164 feet)

- **Dimensions:** 88mm(H) x 81mm(W) x 116mm(D)
(3.5 x 3.2 x 4.6 inches)

- **Weight:** 410g(land), 6g(underwater), including batteries

- **Accessories:** 2 x AA alkaline batteries, fixing bolt,
diffuser, O-ring (spare for battery holder),
silicone grease

※Specifications and prices are subject to change without notice.