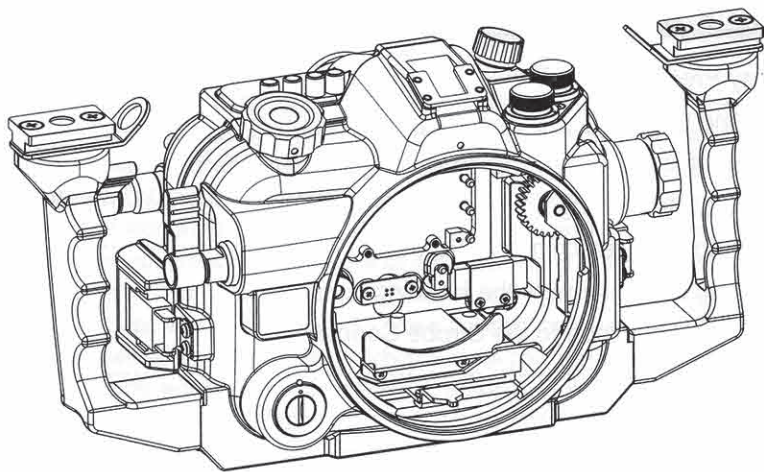


SEA&SEA

***UNDERWATER HOUSING for
Canon EOS 5D***

DX-5D

Instruction Manual



DX-5D

UNDERWATER HOUSING for Canon EOS 5D

Instruction

Thank you and congratulations on your purchase of Sea & Sea's DX-5D underwater housing. The DX-5D is designed exclusively for use with the Canon EOS 5D camera, and depth rated to 60m/200feet. Please read this manual before use and retain for your future reference.

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Safety Precautions

※ 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.

Precautions marked "CAUTION!" refer to those situations or conditions that could result in personal injury or property damage. Please read carefully.

■ General Precautions for the Housing



CAUTION!

- Always make sure that underwater lighting equipment and accessories are securely mounted to the housing to prevent them from falling off, getting lost, causing personal injury or equipment malfunction.
- Carry the housing carefully. Take care not to drop it. Violent impact can severely damage the housing.
- Do not open the housing or replace the port or lens in a wet or sandy environment. Protect the interior from moisture and debris.
- Do not alter or modify the housing. User modifications can result in flooding or malfunction. User modifications will void the warranty.
- If you detect smoke or an acrid odor, discontinue use immediately. Remove the camera from the housing and remove the batteries from the camera. Bring or send the housing to an authorized Sea & Sea dealer for evaluation and repair.
- In the event of flooding, turn the camera and strobe off and discontinue use. Beware of increased pressure inside the housing. Handle with extreme care when opening. Immediately remove all batteries. Bring or send the housing to an authorized Sea & Sea dealer for evaluation and repair.
- After use, rinse with fresh water. To avoid flooding, make sure the housing is securely sealed with both locking latched and the port securely mounted.
- When rinsing without a strobe attached, make sure the strobe bulkhead is sealed with the provided cap.
- Take care not to scratch the port surface, viewfinder or LCD windows.
- Always dry the port surface and finder window with a soft cloth to prevent salt residue from marring the surfaces.
- Never use petroleum solvents, such as alcohol or paint thinner, to clean the housing; such products might mar or otherwise damage the port, view and LCD windows, or the housing's finish.
- When installing or removing the camera, the dials or gears may scratch the inside of the housing. Be careful not to scratch the O-ring sealing surface.

Other scratches will not cause a functional problem.

- This product has been constructed with an airtight seal. When packing this product for airplane travel, release the locking latches or remove the O-ring to alleviate pressure build up due to atmospheric changes.
- This product incorporates plastic parts. Do not subject the 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 unobtained pictures or costs related to the shooting of such pictures due to malfunction of the housing, camera, strobe or accessories.
- 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.
- 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 DX-5D Housing 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. 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.

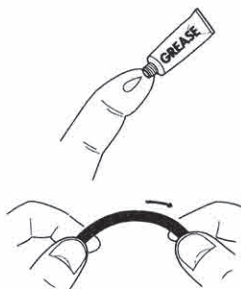
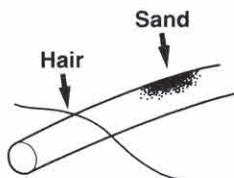
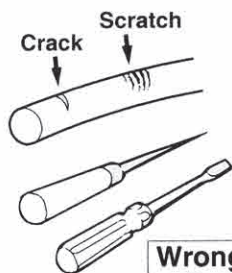
Always store your O-ring in an airtight container and in a cool environment. Keep out of direct sunlight. Take care that it is stored flat and not bent or twisted. Do not place any heavy objects on it; excessive weight will flatten it and impede its sealing capability.

● The O-ring's life is one year.

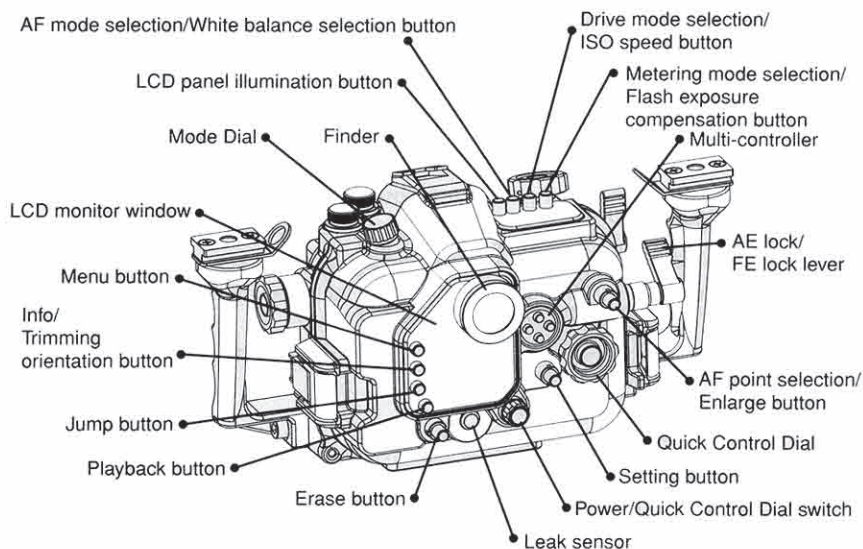
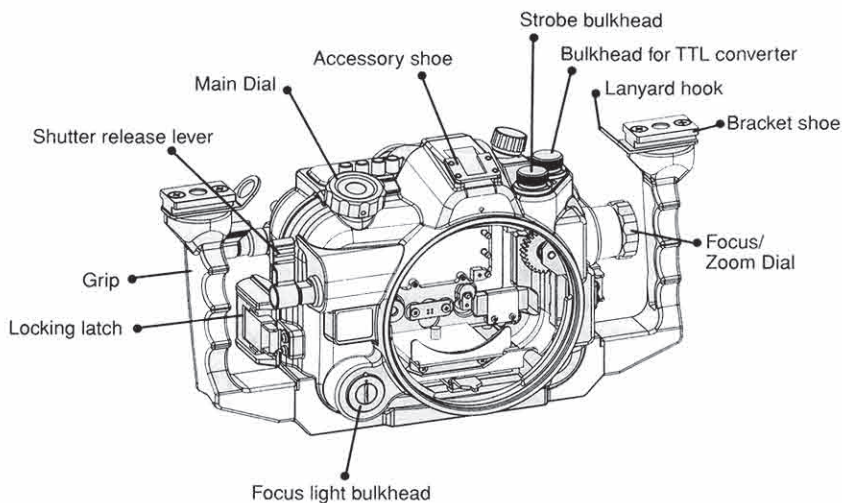
The life of the O-ring depends on the diligence of your maintenance, frequency of use, and storing conditions, but on average, if you maintain your O-ring properly, it will retain its watertight integrity for one year.

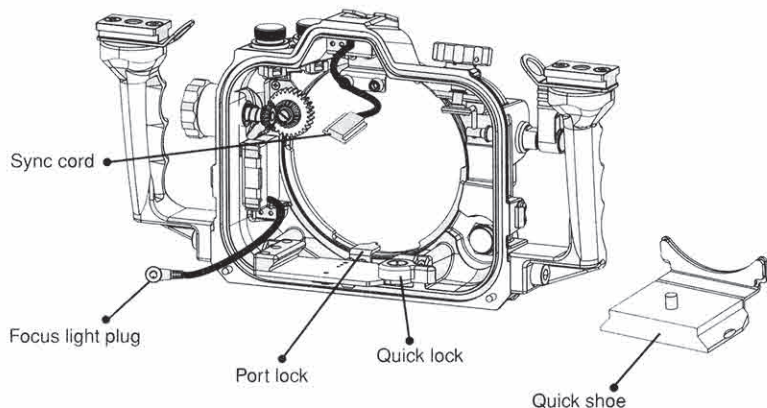
● Remove the O-ring for inspection.

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





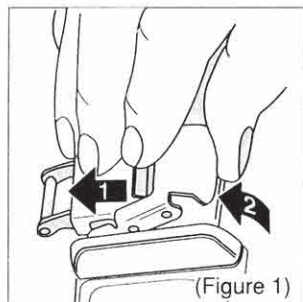
Opening and Closing the Housing

<OPENING THE LOCKING LATCH>

To release the locking latches, press down on the security lock, then push the latches forward (Figure 1). Removal of rear case will be easier by re-locking the latch while the latch is off the hook (Figure 2).

⚠ CAUTION!

- To prevent injury, lift the locking latch with the ball of your finger and not with your fingernail.

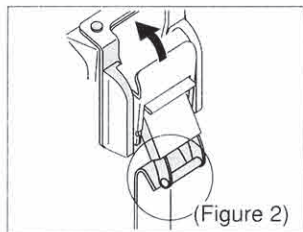


<CLOSING THE LOCKING LATCH>

Press the rear case against the front case and close the locking latches on the left and right sides simultaneously. Then close the top latches simultaneously.

⚠ CAUTION!

- Examine the O-ring and O-ring channel. Make sure they are not scratched or contaminated with sand, hair, dust, etc.
- Snap down the latches until you hear a clicking sound. This indicates that the latches are securely closed.



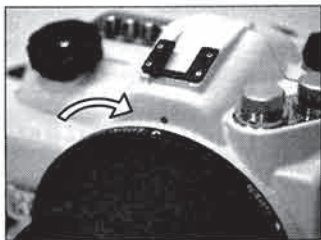
Attaching and Detaching the Port

<Attaching the Port >

1. Pull the port at the bottom of the Quick Shoe Base in the front case to the OPEN position.(Figure 1)
2. Align the OPEN mark on the port with the index screw on the housing indicated in Figure 2. Insert the port into the front case of the housing and turn the port clockwise until it stops. (Figure 1)
3. Make sure that the marking on the housing and port meet.
4. Push the port lock to the LOCK position until you hear a click, making sure that the port lock pin is fully engaged with one of the port notches.



(Figure 1)



(Figure 2)

Detaching the port

1. Pull the port lock to the OPEN position
2. Hold the front case firmly and turn the port counter-clockwise.

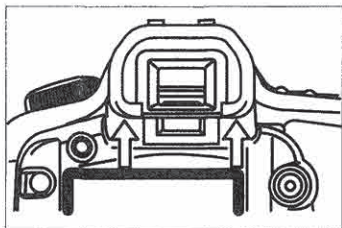


CAUTION!

- Never attempt to remove the port with the port lock at LOCK position. It may damage the camera base.
- Ports for NX-90PRO are compatible with the DX-5D but the bayonet mount must be modified. For details, please contact Sea & Sea or a Sea & Sea authorized dealer. (Ports with black bayonet and 4-digit part number need to be modified. Ports with gray bayonet and 5-digit part number can be used with DX-5D without modification.)

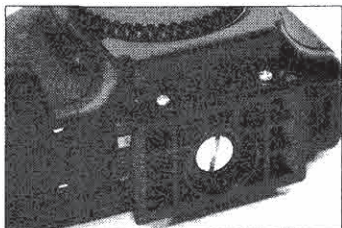
Mounting the Camera to the Housing

1. Remove the eyecup from the camera (Figure 1).
2. Attach the quick shoe to the bottom of the camera and secure with the screw (Figure 2).
3. Attach the selected lens to the camera. Select focus mode (AF or MF).
4. Rotate the lock on the Quick Shoe Base OPEN position (Figure 3).



(Figure 1)

5. Fit the camera into the front case.
※When mounting the camera, make sure that the sync cord and focus light plug are clear of the camera.



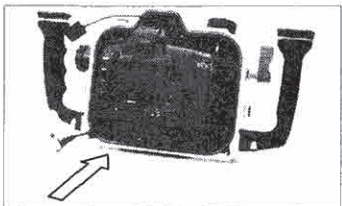
(Figure 2)

※Into the camera into the housing while turning the focus knob to ensure that the camera and housing gears will mesh well with each other(Figure 4).

6. Turn the Quick Shoe lock to the LOCK position to secure the camera in place.



(Figure 3)



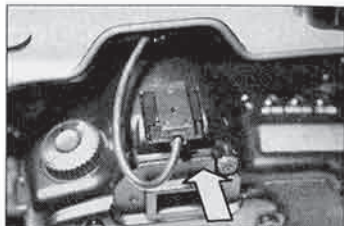
(Figure 4)

7. Attach the sync cord to the camera's hot shoe as shown in the figure 5. Push it in till it stops. (Figure 5)



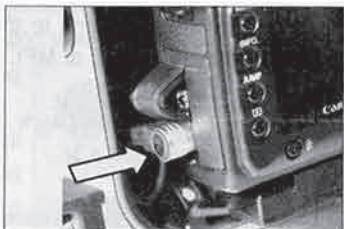
CAUTION!

- When connecting and disconnecting the sync cord, hold the connector firmly between thumb and forefinger. Do not push, pull, twist, or bend the cord. Abusive handling can damage the cord.



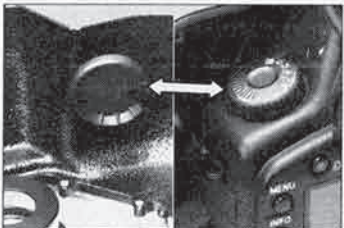
(Figure 5)

8. Insert focus light plug as shown in the Figure 6. Push it in till it stops. Fold without pinching terminal cover. (Figure 6)



(Figure 6)

9. Set the rear case by turning the mode dial in alliance with camera to lock. (Figure 7)

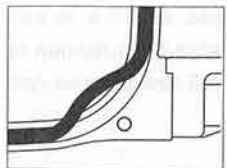


(Figure 7)



CAUTION!

- When installing the O-ring, make certain that the O-ring is properly seated in the O-ring groove.



Dismounting

1. Detach the sync cord from the camera.
2. Remove the focus light plug.
3. Turn the quick lock to the OPEN position.
4. Pull out the camera from the front case.

Attaching the Strobe to the Strobe Connector



CAUTION!

- Product comes with two strobe connectors.

A connector with black resin inside of ① is for YS series strobe.

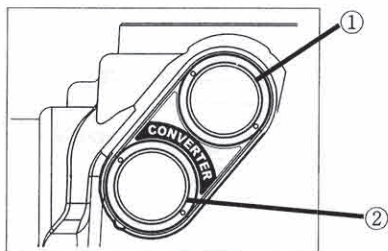
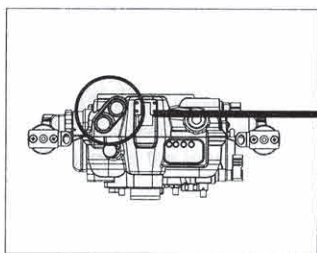
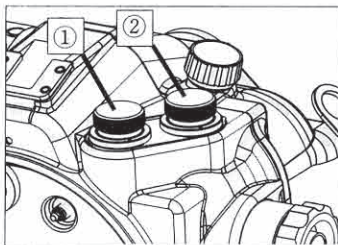
A connector with red resin inside of ② is for TTL converter.

DO NOT connect the five-pin sync cord connector for YS series with black resin to the red connector for TTL converter(②).

This may cause damage on a pin etc. of the connector.

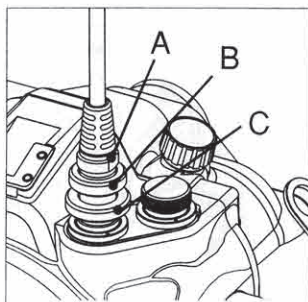
Also, DO NOT connect the six-pin sync cord connector for TTL converter with red resin to the black connector (①).

This may cause damage on a pin etc. of the connector.



Use a Nikonos-type strobe, since this product is designed to accommodate a standard Nikonos five-pin connector.

1. Remove the bulkhead connector cap.
2. Make sure that the O-ring and the connector contact pins are clean.
3. Align the guide mark on the strobe's sync cord with the guide mark on the housing's bulkhead connector. Then push the sync cord into the bulkhead
4. Turn part (B) until the connector is firmly fixed.
5. Turn part (C) until the connector is locked into place.



6. To remove the connector, loosen part ③, then part ②, and pull part ① straight out.



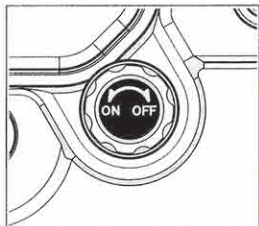
CAUTION!

- To remove the sync cord after use underwater, turn the housing upside down, and then pull out the sync cord. This will prevent water from dripping into the bulkhead connector. If it gets wet, dry it immediately
- Sea & Sea's strobes equipped with Nikonos-type connectors are the only recommended strobes for this housing. Use of other strobes may cause malfunction of the housing.

External Controls

Power Switch

Turn the dial in accordance with arrows to turn ON/OFF the camera.



Focus/Zoom dial

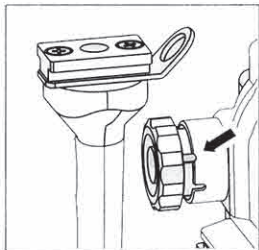
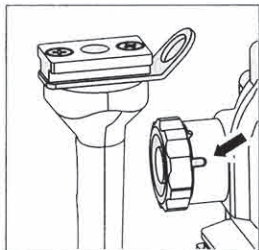
When camera is set for Manual Focus, insert convex part of focus/zoom dial into deeper groove of spacer.

Gear must be set on the lens to use focus/zoom dial.

When using zoom lens, set zoom gear to zoom in/out easily.

When using Auto Focus, insert convex part of focus/zoom dial into shallower groove of spacer.

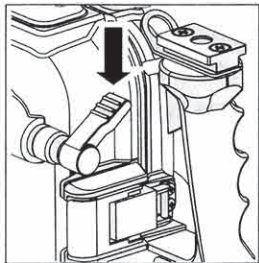
Inserting the convex part into deeper groove may cause damage to the lens.



AE lock/FE lock lever

Use this lever for AE lock/FE lock filming. Push the lever down to use.

※For information regarding the controls of the EOS 5D camera, please refer to the instruction packaged with the camera.



Leak sensor

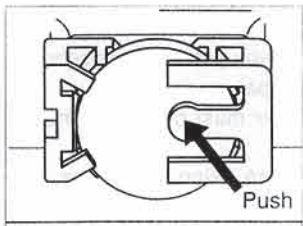
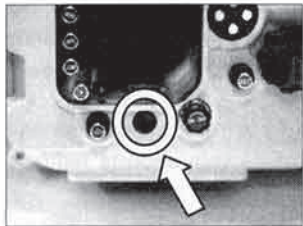
- The leak sensor blinks red when sensing a water leak while the camera is submersed under water.

When the leak sensor blinks, come to the surface soon as long as you know it's safe, and take out the camera.

Also, when a lot of water leaks in, the air pressure rises inside and it is very dangerous. (In such cases as the air is coming out from the exhaust valve when coming to the surface.) Be very careful when taking off the locking latch.

Removing/Installing the Leak Detector Battery

- The battery included in the rear case are the batteries for the leak sensor. To replace the batteries, use CR2032. In order to take out the battery push the circular part in the center firmly and it will come off.



Finder

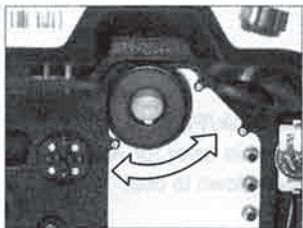
Product is equipped with 0.66 times standard Finder.

Finder is replaceable and can be changed depending on the environment.

Replace the standard Finder with optional Finder Unit if necessary.

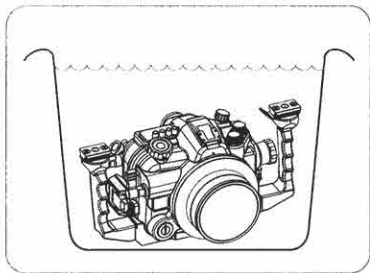
How to replace.

1. Loosen the Finder Unit attached to rear case by turning counterclockwise and remove.
*Be careful not to touch grease on a screw thread part.
2. Ensure that no dust, dirt, or rust is inside of the Finder, then turn the Finder Unit clockwise to tighten.
*Do not touch lens.



Care and Maintenance After Use

1. Always rinse this product with fresh water after use. To prevent water from penetrating the interior, keep the housing securely closed with both locking latches while rinsing.
2. After use, first soak the housing well in fresh water as shown and then rinse with running water.



CAUTION!

Salt residue may be left if the housing is only dipped in fresh water or just rinsed. The salt residue will crystallize when it dries. Crystallized salt will be hard to wash away and it may cause flooding. So always soak the housing well in fresh water and rinse after use.

3. After rinsing, dry completely with soft cloth and keep in a shaded and dry place.



CAUTION!

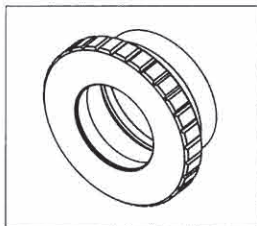
Do not dry the housing with heat, since heat may warp or damage housing parts.

4. Always remove the camera from the housing after use. Carefully wipe off water before opening the cases and make sure water does not drip onto the camera or into the housing. If water gets inside the housing, dry immediately and completely.
5. Lubricate the O-ring with silicone grease after use. The O-ring must be replaced with a new one once a year.
6. When not in use for a long period, do not store in a damp or humid environment, under direct sunlight, or in an extremely cold environment.
7. Never use petroleum solvents, such as alcohol or paint thinner, to clean the housing; such products might mar or otherwise damage the housing's finish.
8. Send the housing to an Authorized Sea & Sea service center for a checkup and necessary overhaul no later than two years after purchase.

Accessories

● Finder Unit

Depending on environment, each finder's magnifying power can be changed.

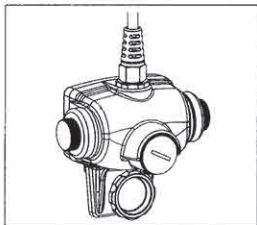


● TTL Converter(for Canon)(#50106)

It's a converter that makes YS series strobe possible to control TTL light.

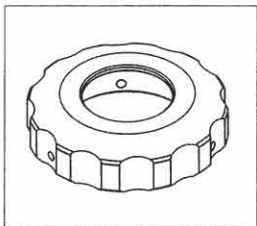
You can externally switch modes from TTL to manual.

Using Power Controller can be used to change the light slightly.



● Dial Adapter(#46103)

A dial with a large diameter that can be attached on top of the main dial and makes the control easier when holding handgrip.



About the PASSED Label



The Pressure Test Passed label on a product indicates that the product has passed the Sea & Sea pressure test and is waterproof at depth.

Specifications

[Controls]

- Power/Quick Control Dial switch · Shutter release lever · Main Dial · Focus/Zoom Dial · Metering mode selection/Flash exposure · Drive mode selection/ISO speed button · Quick control dial · AF mode selection/White balance selection button · LCD panel illumination button · AF point selection/Enlarge button · Setting button · AE lock/FE lock lever · Multi-controller · Mode Dial · Menu button · Erase button · Playback button · Info/Trimming orientation button · Jump button

[Construction]

- Body : Corrosion-resistant aluminium alloy
- Grip : Corrosion-resistant die-cast aluminum

[Depth rating]

- 60m/200feet

[Dimension]

- 345x175x140mm/13.6x6.9x5.5 inches (WxHxD)

[Weight]

- 2800g/6.2lbs (without camera)

[Accessories]

- O-ring · silicon grease · O-ring remover · hexagonal wrench · quick shoe · O-ring maintenance manual · housing body cap · CR2032 lithium battery (for leak detector, preinstalled into battery compartment) · instruction manual

※The price, specifications, and appearance of this product may change without notice.