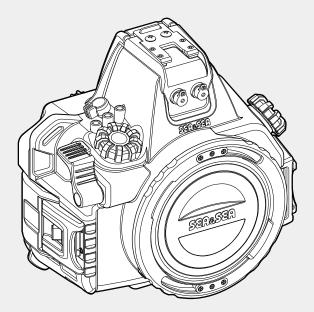


UNDERWATER HOUSING for Canon EOS Kiss X8i / REBEL T6i / 750D Canon EOS Kiss X9i / REBEL T7i / 800D





# 取扱説明書 Instruction Manual

06178A

王之言

#### **Introduction**

Note:

Thank you for purchasing SEA&SEA products.

Please read this instruction manual carefully prior to using this product. Only with a thorough understanding of this manual's content will you be able to use the housing correctly. After reading the manual, please be sure to keep it in a place where you can easily come back to it at any time.

This products have passed SEA&SEA's criteria-
based inspection for pressure resistance.

The appearance of color evenness or weld lines on the external body of the product is normal and will not affect its performance.

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## **Safety Precautions**

For safe handling of the product, please read the following precautions carefully before use.

Failure to heed the precautions listed below could result in serious consequences. To prevent injury or damage to yourself and/or others, please observe the precautions as they contain highly important information related to personal and product safety.

WARNING Situations that could result in severe injury or death.

Situations that could result in property damage or personal injury.

## 

CAUTION

• Keep out of reach of children to prevent accidental ingestion. If swallowed, seek medical advice immediately.

- Carefully observe the instruction manual for the compatible camera for this product before use.
- This product must be used in combination with the optional port for SEA&SEA digital SLR camera housings. This product cannot be used alone.
- This product has been designed and manufactured for use at a water depth within 60m / 200ft. Please note that diving to a depth in excess of 60m / 200ft may cause damage to the product or may lead to water leakage.
- Unauthorized disassembling and/or modification could result in malfunction or flooding, and void product warranty. Take the product to a SEA&SEA authorized service center for repair or inspection.
- Should you notice smoke or an unusual smell coming from the product, turn it off and remove the batteries immediately, taking care to avoid burns. Continued operation could result in injury. After removing the battery, take the product to a SEA&SEA authorized service center for inspection.
- Discontinue use and turn the product off immediately should you notice flooding or leakage.
- When the product is flooding, interior pressure may build up. Please be careful when opening the product as water may spurt out or the cap may open explosively and cause injuries.
- The product has been constructed with an airtight seal. When packing the product for airplane travel, do not seal-up the product to alleviate pressure build up due to atmospheric changes.
- Do not open the product in a wet or sandy environment. Protect the interior from moisture and debris in order to prevent malfunction or flooding.
- Avoid strong shocks/impacts or excess stress to prevent malfunction, damage or breakdown. Make sure that the product has been securely mounted to other products in order to prevent injury, fall or missing.

- Do not rest heavy weight on the product. It might deform the outer casing, damage internal parts, make the waterproofing fail, or result in fire or electric shock.
- Please note that some marks may be left on the camera scraping against the dials or gears of the housing.
- Handle the product carefully so as not to scratch the front port, the lens, the flash window or the finder.
- Always dry the front port, the lens, the flash window or the finder using a soft cloth to prevent stain or salt residue from marring the glass surface.
- Rinse the product with fresh water, after underwater use. Ensure that the product is waterproofed before rinsing. Refer to [Maintenance and Storage] (P.E-21) for details.
- Never use chemicals, cosmetics, any petroleum solvents such as paint thinner, or neutral detergent on the product. They may deform and damage the product.
- Do not leave the product in places with hot temperatures such as inside of a car or in a car trunk in summer. The heat may deform plastic parts of the product, damaging internal parts and resulting in potential fire or electric shock. If the product is sealed tight in hot conditions, heated air expanding inside the product may deform the casing and ruin the waterproofing.
- Do not store the product in wet or high humidity place, to avoid mold, rust, corrosion or malfunction.
- Do not store the product with naphthalene or camphor mothballs, or in locations such as a laboratory where chemicals are used. This environment can cause mold, rust, corrosion or malfunction.
- SEA&SEA SUNPAK Co., Ltd. assumes no liability for compensation of loss of captured images or expenses caused by loss of images, even if you are unable to shoot due to a product defect or malfunction.
- SEA&SEA SUNPAK Co., Ltd. will not be responsible for the replacement or compensation for cameras, lenses or those accessories damaged due to your invalid operation.
- SEA&SEA SUNPAK Co., Ltd. assumes no liability for errors or discrepancies in this manual.
- Carefully observe the O-ring maintenance manual for the handling of O-rings before use.
- The silicon grease included in the product package is inedible.

# Precautions on Handling the O-ring

This product is kept watertight by the O-ring. To keep the O-ring functioning properly, please observe the following. Improper handling of the O-ring could cause flooding.

## 

- SEA&SEA products use blue O-rings. These O-rings are impregnated with silicone oil through a special process. The lubricating effect of the O-ring lasts as long as the silicone oil is gradually seeping out from within.
- For the maintenance of these blue O-rings, make sure to use genuine SEA&SEA silicone grease (O-ring grease for use with the blue O-rings that comes in tubes with blue lettering and blue caps). If you use silicone grease from other companies or SEA&SEA's own silicone grease that comes in tubes with black lettering and black caps, the grease you apply will be sucked into the blue O-rings due to their special characteristics, which will result in insufficient grease. If this happens even once, the O-ring will not revert to its normal state and must be replaced.
- If the grease is insufficient, the O-ring will not slide, and it will become harder to open and close the waterproof parts. Because of this, it could become impossible to open or close the housing or it could cause flooding, so please refrain from using the housing with insufficient grease.

#### Are there any scratches or cracks in the O-ring?

Check the O-ring to make sure there are no scratches or cracks. If there are, replace the O-ring with a new one immediately. When handling the O-ring, do not use pointed metal objects, which could damage the O-ring. Use of the included O-ring remover is recommended.



## Be careful about dust, sand, and hair

Check the O-ring to make sure that there is no dust, sand, or hair on the O-ring, in the O-ring's grooves, or on the O-ring's contact surfaces. If any of these things are attached, remove them completely. If used as is, these things could cause flooding.

## Coat with silicone grease

Silicone grease protects the O-ring from chafing. After checking the O-ring to make sure that there are no scratches, dust, or debris, apply a light coating of silicone grease to the entire O-ring with your finger. Applying too much grease will make it easier for dust and debris to adhere to the O-ring, and could cause flooding.

#### Do not twist the O-ring

When fitting the O-ring into the O-ring groove, insert it straight into the groove; do not bend or twist it.

## Remove the O-ring for inspection before each use

In principle, the O-ring should be removed before each use so that the O-ring, O-ring groove, and O-ring contact surfaces can be checked. This is because you cannot find any sand or debris that may have gotten into the O-ring groove if the O-ring is not removed. For routine maintenance prior to each use, it is advisable to make sure to remove the O-ring.

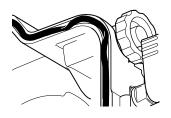
#### Be careful about how you store O-rings

When storing spare O-rings or O-rings that you have removed from the housing, keep them in a cool place out of direct sunlight. Also, when storing O-rings, do not place heavy objects on them or twist them.

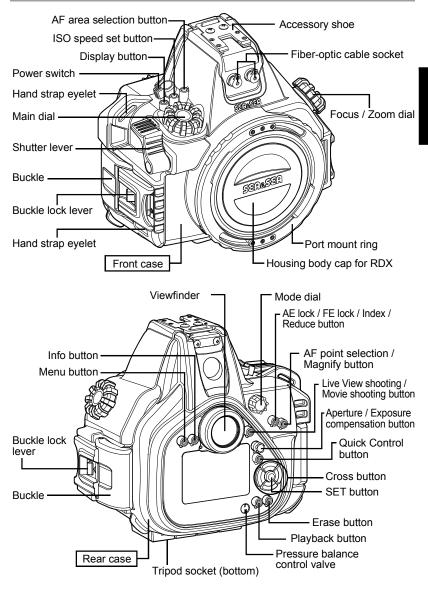
## O-rings last for one year

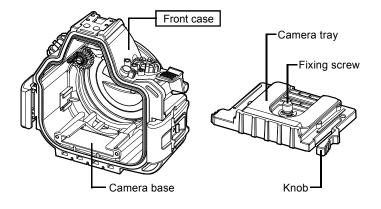
Although it depends on how well they are maintained, how often they are used, and how they are stored, O-rings generally last for one year. It is advisable to inspect them before use, and replace them early.





# **Identification of Parts**





## Pressure balance control valve

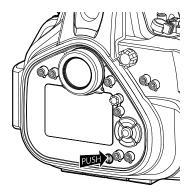
This product comes equipped with a pressure balance control valve. Pushing the valve counterbalances the pressure difference that occurs due to temperature or atmospheric changes, and makes it possible to open the housing.

#### How to use

Push the pressure balance control valve using a stick or other thin object.

## 

• The product has been constructed with an airtight seal. When packing the product for airplane travel, do not seal-up the product to alleviate pressure build up due to atmospheric changes.



# **Preparation for Setting Up**

This product must be used in combination with the optional equipment (digital camera, port, strobe, accessories etc.) for underwater photography. In order to set up the equipment, prepare each item correctly.

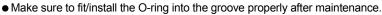
### Prepare the housing and port

#### Maintaining the O-ring

This product is kept watertight by the O-ring. To keep the O-ring functioning properly, please observe the following before setting up.

- Make sure to remove the O-ring when maintaining.
- For detailed O-ring maintenance methods, please see the O-ring maintenance manual.

## 



## Prepare the digital camera

This product is exclusively designed for use with Canon EOS REBEL T6i / 750D / REBEL T7i / 800Ddigital camera. Other cameras are not compatible with this product.

- Make sure that there is sufficient battery power remaining and the image storage medium has enough room for the number of pictures.
- Remove the eyecup from the camera.
- Remove the strap or the LCD monitor cover from the camera, if any of these accessories are attached.
- If the lens has a focus mode switch, set it properly.
- Make sure the camera is operating correctly, referring to the camera's instruction manual for details.

#### Prepare the connecting accessories

When using external strobes, lights or other accessories in combination with this product, prepare the equipment before setting up.

- If the accessories are kept watertight by O-rings, make sure the O-rings are properly maintained.
- If the accessories are powered by batteries, make sure that there is sufficient battery power remaining.
- Make sure the equipment is operating correctly, referring to the instruction manual provided with the equipment.

O-ring

# **Opening and Closing the Housing**

Opening and closing the housing is done with the buckles. Here we will explain how to open and close the buckles.

#### **Opening the buckle**

Press and hold the buckle lock lever (①), and remove the right and left buckles simultaneously (②)

## 

- When removing the buckle, be sure to use the tips of your fingers, not your fingernails.
- 2 Remove the L-hook from the front case

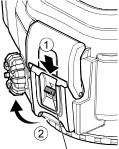
Buckle lock lever

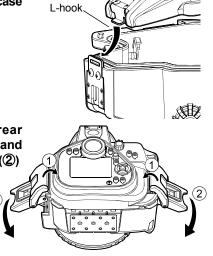
#### **Closing the buckle**

Attach the L-hook to the front case

2 Attach the buckles to the rear case (①), and close the right and left buckles simultaneously (②)

- Before aligning the rear case and front case, make sure there are no specks of dust, scratches, or deformities on the O-ring and the O-ring contact surfaces.
- Check to make sure that the buckles are securely locked.





## Attaching and Detaching the Port (option)

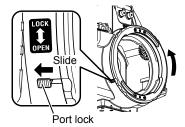
In order to use this product underwater, the optional port (option) for the camera lens must be attached to this product.

## 

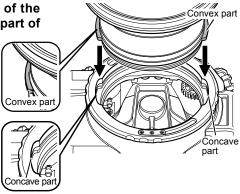
- Only the optional ports designed for SEA&SEA RDX-series housings can be attached to this product.
- This product is delivered with a housing body cap attached to the port mount. Make sure to remove the housing body cap when attaching the port.
- The housing body cap has no watertight capability.
- When attaching the port to the housing, always refer to the instruction manual provided.

#### Attaching the port

1 Release the port lock on the RDX housing (front case) by sliding it in the direction of the arrow as shown in the diagram, and rotate the port mount ring toward OPEN (in a counterclockwise direction) until it stops



2 Align the convex part of the Port with the concave part of the port mount ring, and fully insert the port into the housing





• Before attaching the port, make sure there are no specks of dust, scratches, or deformities on the O-ring and the O-ring contact surfaces.

Rotate the port mount ring toward LOCK (in a clockwise direction) until you hear it click into position
Make sure that the port lock has returned to the lock position as shown in the diagram.

#### **Detaching the port**

- 1 Release the port lock by sliding it in the direction of the arrow, and rotate the port mount ring toward OPEN (in a counterclockwise direction) until it stops
- 2 Hold the RDX housing (front case) firmly, and pull the port straight off

- Do not attempt to detach the port with the port mount ring locked. This could result in damage to the port mount ring.
- If using NX-90PRO ports (with 4-digit part numbers and black bayonets) with this product in combination with the RDX Port Base L, it is necessary to modify the port's bayonet. NX-90PRO ports with 5-digit part numbers and gray bayonets can be used as is. For details, please contact SEA&SEA or a SEA&SEA authorized dealer.

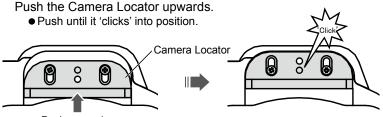
## Configure the housing in accordance with the camera being used

At shipment, the case is configured for use with the EOS REBEL T6i / 750D. Removeable parts allow the case to be configured for use with the EOS REBEL T7i / 800D.

Configuring the Case for the EOS REBEL T7i / 800D digital camera

## 1 Use the camera tray designed specifically for the 800D/T7i.

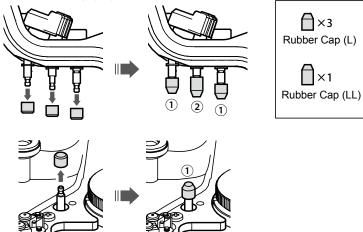
## 2 Adjust position of the Camera Locator.



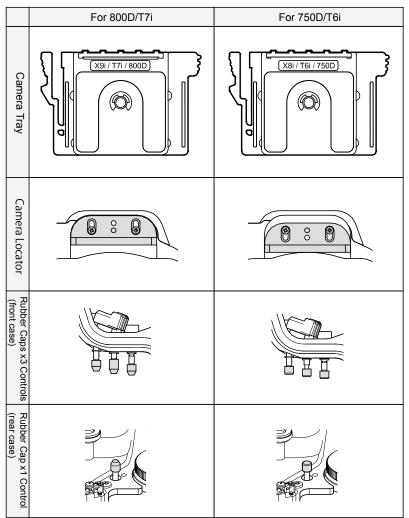
Push upwards

## 3 Replace the Rubber Caps on the controls shown.

- (1) Replace the Rubber Caps on the; AF area selection, Display and Movie shooting buttons with the Rubber Caps (L) included.
- ②Replace the Rubber Cap for the ISO speed set button with Rubber Cap (LL) included.



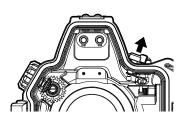
CHECKLIST

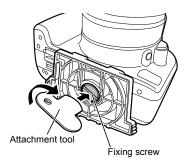


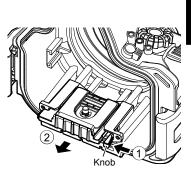
# Mounting the Camera in the Housing

- Make sure to remove the eyecup from the camera. If used with the eyecup in place, it could cause flooding.
- 1 Release the lock on the camera tray by pushing the knob in the direction of the arrow (①), and slide the camera tray out (②)

- 2 Attach the camera tray to the camera's tripod socket by fastening the fixing screw using the supplied attachment tool
- 3 Attach the lens to the camera
- 4 Pull the power switch out

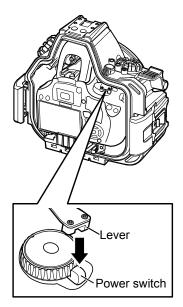






- 5 Pop up the camera's built-in flash. Align the camera tray with the camera base inside the front case, and slide the camera forward into the front case
  - Make sure to pop up the built-in flash of the camera before mounting the camera in the housing. Once the camera has been mounted, the flash button of the camera cannot be used, and the camera's built-in flash cannot be popped up.
  - Make sure the camera tray is inserted all the way into the camera base until it stops.
  - Make sure that the camera tray is properly placed and the knob is locked.

# 6 Align the lever of the housing's power switch and the camera's power switch



"Opening and Closing the Housing" (P. E-9)

• Make sure that the O-ring is properly fitted in the O-ring groove before setting of the rear case.

## 

 After the camera is mounted in the housing, make sure to check that all of the housing's control parts work properly and the camera functions correctly.

#### Removing the camera from the housing

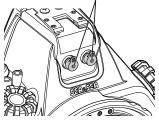
- 1 Open the buckles
- 2 Remove the rear case
- 3 Pull the power switch out
- 4 Release the lock on the camera tray by pushing the knob, and slide the camera tray out

## **Connecting the Strobe**

This product comes equipped with two fiber-optic cable sockets. Connect the strobe with the fiber-optic cable (option) when the strobe is triggered by sensing the light from the camera's built-in flash.

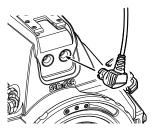
1 Remove the fiber-optic cable socket caps

Fiber-optic cable socket cap



# 2 Insert the fiber-optic cable's connector into the socket until it stops

• Do not remove the caps from fiber-optic cable sockets not in use to keep light from entering in.





- There is no possibility of water leaking from the fiber-optic cable socket even if the fiber-optic cable/cable socket cap is removed underwater.
- After the strobe is connected to the housing, make sure to check that the connected strobe functions correctly before underwater use.

# Attaching the Hand Strap

Put the hand strap through the hand strap eyelet on top of the housing as shown



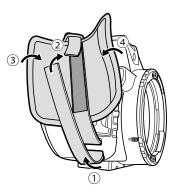
# 2 Put the hand strap through the hand strap eyelet on bottom of the housing as shown

- Ensure a good grip, then fasten the velcro.
- Make sure to attach at least 2/3 of the velcro's length.
- Hold the equipment by the housing body when carrying it. Carrying the equipment by holding the strap may cause it to fall and being damaged.

#### How to use the Hand Strap

Pass your right hand between the hand strap and the housing, then hold onto the housing body while grasping the buckle part.

• When shooting, support the bottom part of the housing/port with your left hand, and hold the housing firmly with both hands.





## 

• Be careful not to touch the glass surface of the port glass with your left hand (fingers).

# **External Controls**

#### Power switch

By rotating the knob as indicated, you can turn the power ON/OFF.

#### Shutter lever

Push the lever toward you or gently press on it from the top to control the shutter button of the camera.

## Focus / Zoom dial

When a focus or zoom gear (option) is mounted on the lens, you can control the manual focus or adjust the zoom angle.

## 

- The focus / zoom dial cannot be used if there is no gear mounted on the lens.
- When using a zoom gear, you cannot shoot with manual focus.
- Do not use a focus gear when you wish to shoot with autofocus. Autofocus shooting with a focus gear will damage the lens.

#### Aperture / Exposure compensation button

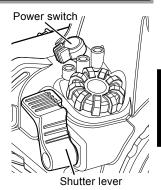
While pressing the button, rotate the main dial to make operation settings. By rotating the button while pressing it in, you can fix it in the pressed-in state.

#### Other controls

Other control parts on the housing correspond to the operation parts of the digital camera. Refer to the camera's instruction manual for details of each function.



• After mounting the camera in the housing, make sure to check that all of the housing's control parts work properly and the camera functions correctly before underwater use.



Focus / Zoom dial

Aperture / Exposure compensation button



# Attaching the Optional Accessories

This product accepts SEA&SEA optional accessories. By using this product in combination with those accessories, you will be able to try various shooting techniques.

## 

- Lenses, strobes and other accessories have different depth rating. Check the depth rating for each before use.
- Read the instruction manual for each accessory before use.

## Finder

This product comes equipped with a 0.5x pick-up finder. The finder can be replaced with an optional finder so you can change the finder magnification to match your shooting conditions.

#### Replacing the pick-up finder

- 1 Rotate the finder unit mounted on the rear case in a counterclockwise direction to remove it
  - The screw areas are coated in grease, so be careful not to touch them.
- 2 Rotate the replacement finder unit in a clockwise direction to attach it



- Before attaching the finder, check to make sure that there is no dust, dirt, or debris inside it.
- When replacing the finder, do not touch the surface of the finder lens.
- When replacing the pick-up finder, always refer to the instruction manual provided.

## Accessory shoe

SEA&SEA strobes / lights can be mounted to the accessory shoe by using optional Mini Shoe Arm (29511) or Hot Shoe Arm (29501).

#### <Example>



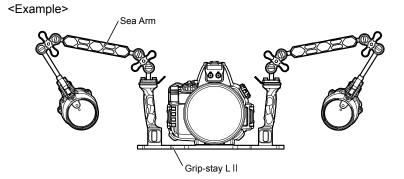


## 

- The max. weight of an accessory that can be mounted to the accessory shoe is approx. 1050g / 36.75oz .
- Remove the accessories from the accessory shoe when carrying the housing out of water.
- When attaching the accessories to the accessory shoe, always refer to the instruction manual provided.

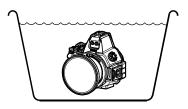
## Stays / Arms

SEA&SEA stays/ arms can be mounted to the housing's tripod socket.



# Maintenance and Storage

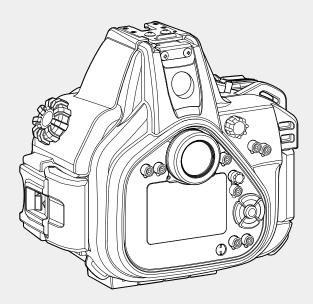
- Never use chemicals, cosmetics, any petroleum solvents such as paint thinner, or neutral detergent on the product. They may deform and damage the product.
- After each use in salt water, make sure it's watertight, then soak it sufficiently in fresh water.
- Insufficient soaking causes damage by salt to the product. Salty residue may be left on the product where it will crystallize as it evaporates. Crystallized salt is hard to dissolve and difficult to be removed once formed, and it will result in water leakage.



- After rinsing, dry the product well with a soft dry cloth, then let the product dry in the shade, out of direct sunlight.
- Do not dry the product by heating (using a hair dryer, for example). Heating can deform and damage the product.
- If you will not use the product for an extended period of time, store it away from high temperatures, high humidity, direct sunlight, or extreme cold.
- Do not store the product with naphthalene or camphor mothballs, or in locations such as a laboratory where chemicals are used. This environment can cause mold, rust, corrosion or malfunction.
- Always remove the camera from the housing after use. Thoroughly wipe off water before opening the housing and avoid any water drops inside the housing.
- After using the product, maintain the O-rings before storing. Examine the O-rings before and after each dive. We recommend early exchange of the O-rings, at least once a year.
- Every two years we recommend a complete overhaul of O-rings regardless of the frequency in use, for the best performance of the product.

Compatible camera	Canon EOS REBEL T6i / 750D T7i / 800D
Controls	Power switch, ISO speed set button, Focus / Zoom dial, Shutter lever, Main dial, Mode dial, AF point selection / Magnify button, AE lock / FE lock / Index / Reduce button, Live View shooting / Movie shooting button, Aperture / Exposure compensation button, Cross button, SET button, Erase button, Playback button, MENU button, Info button, Quick Control button, AF area selection button, Display button
Construction	Body: Polycarbonate resin (Black)
Depth rating	60 m (200 feet)
Dimensions	Approx. 200 (W) × 190 (H) × 140 (D) mm (7.87 × 7.48 × 5.51 inches)
Weight	Approx. 1730g (3.81 lbs.) (housing only)
Accessories	<ul> <li>Silicone grease</li> <li>Attachment tool</li> <li>O-ring maintenance manual</li> <li>O-ring remover</li> <li>Hand strap</li> <li>Instruction manual (this manual)</li> <li>Rubber Caps for 800D/T7i: (L) x3, (LL) x1</li> <li>Camera Tray for 800D/T7i</li> <li>Spare Rubber Caps: (M) x1, (L) x1, (LL) x1</li> <li>Attached accessories to the product :</li> <li>Housing body cap</li> <li>Fiber-optic cable socket cap (x2)</li> </ul>

<sup>\*</sup> The specifications and appearance are subject to change without notice.





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