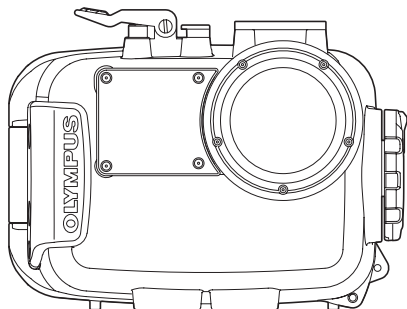


OLYMPUS

PT-048



日本語

ENGLISH

FRANÇAIS

DEUTSCH

ESPAÑOL

中文

한국어

Jp

取扱説明書 防水プロテクター

デジタルカメラ μ TOUGH-8010/STYLUS TOUGH-8010/ μ TOUGH-6020/STYLUS TOUGH-6020 用

En

Instruction Manual Underwater Case

For the digital camera μ TOUGH-8010/STYLUS TOUGH-8010/ μ TOUGH-6020/STYLUS TOUGH-6020

Fr

Mode d'emploi Caisson étanche

Pour l'appareil photo numérique μ TOUGH-8010/STYLUS TOUGH-8010/ μ TOUGH-6020/STYLUS TOUGH-6020

De

Bedienungsanleitung Unterwassergehäuse

Für die Digitalkamera μ TOUGH-8010/STYLUS TOUGH-8010/ μ TOUGH-6020/STYLUS TOUGH-6020

Sp

Manual de Instrucciones Caja estanca

Para la cámara digital μ TOUGH-8010/STYLUS TOUGH-8010/ μ TOUGH-6020/STYLUS TOUGH-6020

Cs

使用说明书 防水机壳

数码相机 μ TOUGH-8010/STYLUS TOUGH-8010/ μ TOUGH-6020/STYLUS TOUGH-6020

Kr

취급설명서 방수 케이스

디지털 카메라 μ TOUGH-8010/STYLUS TOUGH-8010/ μ TOUGH-6020/STYLUS TOUGH-6020

- Thank you for buying the Underwater Case PT-048 (hereinafter Case).
- Please read this instruction manual carefully and use the product safely and correctly. Please keep this instruction manual for reference after reading it.
- Wrong use may cause damage to the camera inside the Case due to water leakage, and repair may not be possible.
- Before use, perform an advance check as described in this manual.

Introduction

- Unauthorized copying of this manual in part or in full, except for private use, is prohibited. Unauthorized reproduction is strictly prohibited.
- OLYMPUS IMAGING CORP. shall not be responsible in any way for lost profits or any claims by third parties in case of any damage occurring from improper use of this product.

Please read the following items before use

This Case is a precision device designed for use at a water depth within 40 m. Please handle it with sufficient care.

- Please use the Case correctly after sufficient understanding of the contents of this manual in regard to handling of the Case, checks before use, maintenance, and storage after use.
- OLYMPUS IMAGING CORP. shall in no way be responsible for accidents involving immersion of a digital camera in water. In addition, expenses incurred for damage of internal materials or loss of recorded contents due to water entering the camera will not be compensated.
- OLYMPUS IMAGING CORP. shall not pay any compensation for accidents (injuries or material damage) at the time of use.

For safe use

This instruction manual uses various pictographs for correct use of the product and to prevent danger to the user and other persons as well as property damage. These pictographs and their meanings are shown below.

<p>⚠ WARNING</p>	<p>This indicates contents for which the possibility of human death or severe injury in case of handling under disregard of this indication can be assumed.</p>
<p>⚠ CAUTION</p>	<p>This indicates contents for which the possibility of human injury or the possibility of material damage in case of handling under disregard of this indication can be assumed.</p>

⚠ WARNING

- ① Keep this product out of the reach of babies, infants, and children. There is the possibility of occurrence of the following types of accidents.
 - Injury by dropping onto the body from a height.
 - Injury from parts of the body getting caught in parts which open and close.
 - Swallowing of small parts, O-ring, silicone grease and silica gel. Please consult a physician immediately if any parts have been swallowed.
 - Triggering of the flash in front of the eyes may cause permanent vision impairment etc.
- ② Do not store with a battery in the digital camera housed in this product. Storage with a battery inserted may lead to leakage of the battery liquid and fire.
- ③ If leakage of water should occur with a camera installed in this product, quickly remove the battery from the camera. There is the possibility of ignition and explosion from generation of hydrogen gas.
- ④ This product is made of resin. There is the possibility that injuries may be caused when it becomes broken because of strong impact with a rock or other hard objects. Please handle it with sufficient care.

⚠ CAUTION

- ① Do not disassemble or modify this product. This may cause water leakage or trouble. OLYMPUS IMAGING CORP. shall not be responsible for damage, lost profits, etc. caused by loss of image data because of disassembly, repair or modification of this product by people other than third parties specified by OLYMPUS IMAGING CORP. or for other reasons.
- ② Use or storage of the product at the following locations may cause defective operation, trouble, damage, fire, internal clouding, or water leakage. This should be avoided.
 - Locations reaching high temperatures such as those under direct sunlight, in an automobile, etc.
 - Locations with open fire
 - Water depths in excess of 40 m
 - Locations subject to vibrations
 - Locations with high temperature and humidity or with severe temperature changes
 - Locations with volatile substances
- ③ Opening and closing at locations with much sand, dust, or dirt may impair the waterproof characteristic and cause water leakage. This should be avoided.
- ④ This product is not a case to soften impacts to the camera inside the product. When this product with a digital camera inside it is subjected to impacts or heavy objects are placed onto it, the digital camera may become damaged. Please handle it with sufficient care.
- ⑤ Do not use the following chemicals for cleaning, corrosion prevention, prevention of fogging, repair or other purposes. When these are used for the Case directly or indirectly (with the chemicals in vaporized state), they may cause cracking under high pressure or other problems.

Chemicals which cannot be used	Explanation
Volatile organic solvents, chemical detergents	Do not clean the Case with alcohol, gasoline, thinner or other volatile organic solvents or with chemical detergents etc. Use pure water or lukewarm water.
Anticorrosion agent	Do not use anticorrosion agents. The metal parts use stainless steel or brass. Wash with pure water.
Commercial defogging agents	Do not use commercial defogging agents. Always use the specified desiccant silica gel.
Grease other than specified silicone grease	Use only the specified silicone grease for the silicone O-ring, as otherwise the O-ring surface may deteriorate and water leakage may occur.
Adhesive	Do not use adhesive for repairs or other purposes. When repair is required, please contact a dealer or a service station of OLYMPUS IMAGING CORP.

- ⑥ Jumping into the water with the Case in your pocket or in your hand, throwing the Case from a boat or ship into the water, and other rough handling may cause water leakage. Please handle with sufficient care, when handing it over from hand to hand etc.
- ⑦ If the camera on the inside should become wet because of water leakage etc., immediately wipe off all moisture and confirm the operation after the Case is dried.
- ⑧ Please remove the O-ring when traveling by air. Otherwise air pressure may make it impossible to open the Case.
- ⑨ For safe use of the digital camera in this product, please read the "Instruction Manual" for the digital camera carefully.
- ⑩ When sealing this product, take sufficient care that no foreign matter gets caught at the O-ring and the contact surface. It is caused for water leakage.
- ⑪ When you install your digital camera in the Case after taking pictures in the water, it may cause the loss of transparency of the lens inside even if you insert the supplied silica gel to the Case when drying the camera is insufficient.

Contents

En

Introduction	2
Please read the following items before use	2
For safe use	3
1. Preparations	8
Check the contents of the package.....	8
Names of the parts.....	9
Using the accessories.....	11
Install the strap.....	11
Installation and removal of the LCD hood	12
Mounting and removing the lens cap	12
Using the fiber cable adapter	13
2. Advance Check of the Case	14
Advance check before use.....	14
3. Install the digital camera.....	15
Check the digital camera.....	15
Open the Case	16
Load the digital camera.....	17
Make sure the camera is loaded properly	17
Seal the Case.....	18
Check the operation of the loaded camera	18
Perform the final checks.....	19
Visual Inspection	19
Water Leakage Test.....	19
4. Taking Pictures Under Water	20
Underwater shooting modes	20
How to select the shooting scene	21
Locking AF during underwater shooting.....	21
5. Handling After Shooting	22
Wipe off any waterdrop	22
Take out the digital camera.....	23
Wash the Case with pure water	23
Dry the Case	23
6. Maintaining the Waterproof Function	24
Remove the O-ring.....	24
Remove any sand, dirt, etc.	24



How to Apply Grease to the O-ring.....	26
Install the O-ring.....	27
Replace consumable parts	27
7. Appendix.....	28
Specifications.....	28

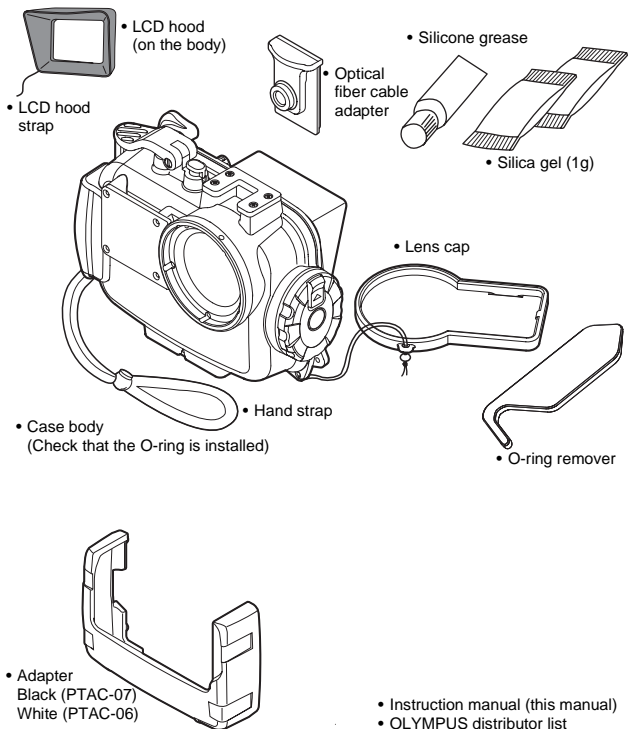
En

1. Preparations

Check the contents of the package.

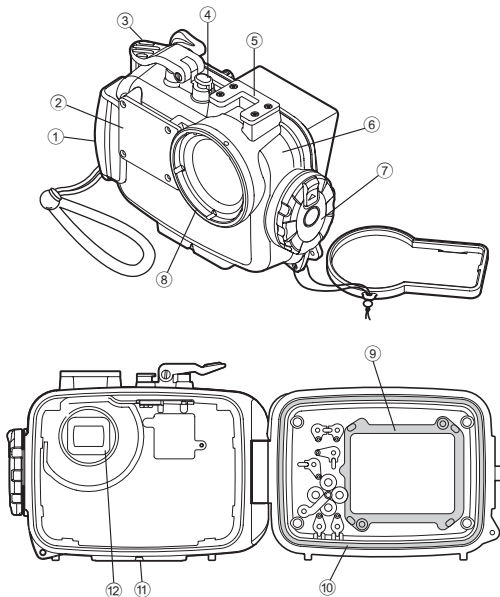
En Check that all accessories are in the box.

Contact your dealer if accessories are missing or damaged.

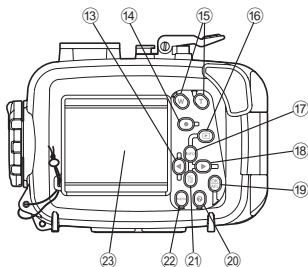


Names of the parts

En



- | | | |
|------------------|-------------------|---------------------|
| ① Palm grip | ⑤ Accessory mount | ⑨ LCD inner hood |
| ② Diffuser | ⑥ Front lid | ⑩ O-ring |
| *③ Shutter lever | ⑦ Open/close dial | ⑪ Tripod seat |
| *④ ON/OFF button | ⑧ Lens ring | ⑫ Light shield hood |



- *13 Arrow pad ◀
- *14 ● (REC) button
- *15 Zoom buttons
- *16 ▶ button
- *17 INFO button/arrow pad ▲
- *18 Arrow pad ▶
- *19 OK/AFL button (*1)
(*1) During Underwater Wide-Angle 1 or Underwater Macro shooting mode, the OK button functions as the AF LOCK button.
- *20 ? button
- *21 🗑 button/arrow pad ▼
- *22 MENU button
- *23 LCD monitor window

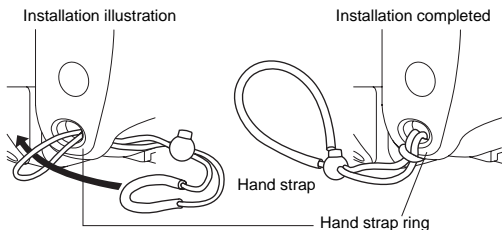
Memo:

The Case operation parts marked by * corresponds to the operation parts of the digital camera. When the operation parts of the Case are operated, the corresponding functions of the digital camera will operate. For details of the functions, refer to the instruction manual for the digital camera.

Using the accessories

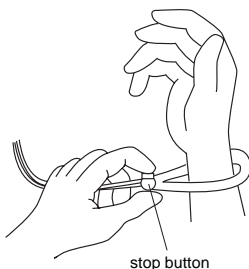
Install the strap

Install the strap on the Case body.



How to use the hand strap

Pass your hand through the hand strap and adjust the length with the stop button.



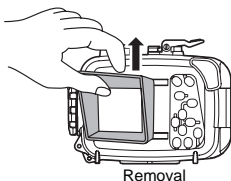
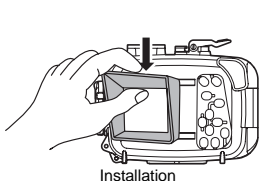
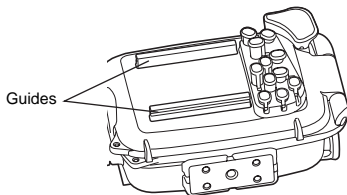
Installation and removal of the LCD hood

Installation

Strongly push the LCD hood as shown in the figure into the rails above and below the LCD monitor window.

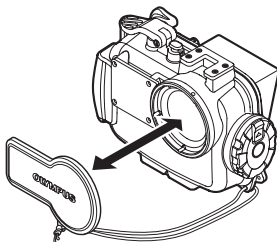
Removal

Remove the LCD hood from the rails above and below the LCD monitor window by widening the LCD hood.



Mounting and removing the lens cap

Fit the lens cap onto the lens ring as shown in the figure. Be sure to remove the lens cap before shooting.

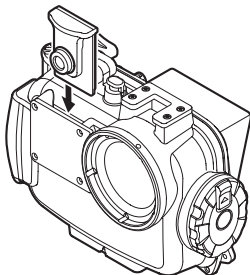


Using the fiber cable adapter

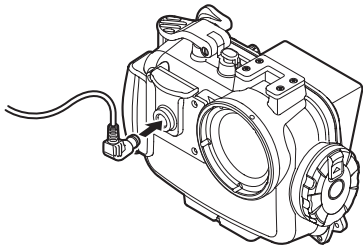
The fiber cable adapter is required when connecting the separately available UFL-1 underwater flash to the Case using an underwater optical fiber cable (optional: PTCB-E02).

How to install

- ① Attach the optical fiber cable adapter to the diffuser shown in the figure below.



- ② Put the underwater optical fiber cable plug all the way into the optical fiber cable (optional: PTCB-E02) insertion slot.



Remove the underwater optical fiber cable when you do not use it while taking picture.

Memo:

RC mode can use only μ TOUGH-8010/STYLUS TOUGH-8010.

When UFL-2 is used, set camera and UFL-2 to RC mode.

For details, see the instruction manual of digital camera and UFL-2.

2. Advance Check of the Case

Advance check before use

En

This Case has been the subject of thorough quality control for the parts during the manufacturing process and thorough function inspections during the assembly. In addition, a water pressure test is performed with a water pressure tester for all products to confirm that the performance conforms to the specifications.

However, depending on the carrying and storage conditions, the maintenance status, etc., the waterproof function may be damaged. Before using, always perform the following advance checks.

Advance Check

- ① Before installing the digital camera in the Case, immerse the empty Case to confirm that there is no water leakage.
We recommend to immerse the empty Case to the intended water depth, however, if you cannot perform this way, check the Case by referring "Water Leakage Test" (P.19).
- ② Main causes of water leakage are as follows.
 - The O-ring has not been installed.
 - A part of the O-ring or the entire O-ring is outside the specified groove.
 - O-ring damage, cracks, deterioration or deformation
 - Sand, fibers, hair or other foreign matter sticking to the O-ring, the O-ring groove or the O-ring contact surface on the front lid
 - Damage to the O-ring groove or the O-ring contact surface on the front lid
 - Catching of the strap, silica gel, etc. when closing the CasePerform the test after the above causes have been eliminated.

CAUTION:

If a leak is detected in normal handling, do not use the Case and contact Olympus.

3. Install the digital camera

Check the digital camera

Check the digital camera before loading it in the Case.

1. Battery Confirmation

The flash is used very frequently during underwater shooting. Before diving, make sure that you have enough remaining battery power.

2. Confirmation of the Remaining Number of Pictures to be Taken

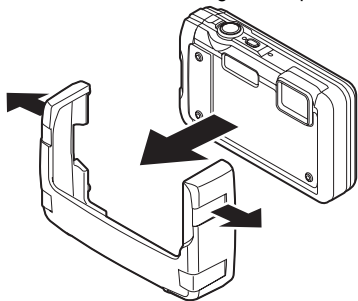
Confirm that the image storage has a sufficient remaining number of pictures to be taken.

3. Remove the hand strap from the digital camera.

When a digital camera is loaded without removing the strap, the strap may get caught between the Case lids and may cause water leakage.

4. Attach the adapter to the digital camera.

Attach the digital camera while distending the adapter slightly.



White adapter (PTAC-06) for μ TOUGH-6020/STYLUS TOUGH-6020.
Black adapter (PTAC-07) for μ TOUGH-8010/STYLUS TOUGH-8010.

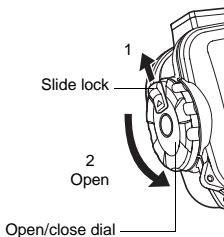
⚠ CAUTION:

When combination of the digital camera and the adapter is incorrect, the camera does not operate correctly.
Be sure to check the combination while installing the digital camera.

Open the Case

- ① Slide and hold the slide lock towards the arrow direction (1 of figure below) and turn the open/close dial counter clockwise (2 of figure below).
- ② Turn the open/close dial to the position where it cannot be turned further.
- ③ Open the rear lid of the Case gently.

En

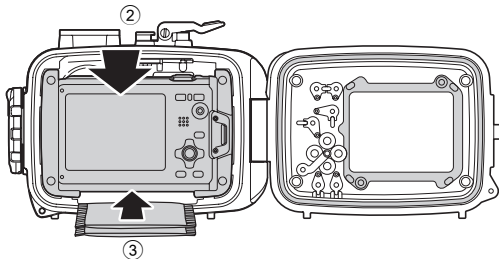


⚠ CAUTION:

Do not exert too much force while turning the open/close dial. Doing so may damage the dial.

Load the digital camera

- ① Confirm that the digital camera is OFF.
- ② Gently insert the digital camera which has attached the adapter into the Case.
- ③ Insert 2 piling up silica gel bags (1g) between the bottom of the digital camera and the Case.
The silica gel bag provided for prevention of fogging.



⚠ CAUTION:

- The silica gel bag will be caught when the Case is sealed and water leakage will occur.
- Once silica gel has been used, the moisture absorption performance will be impaired. Always replace the silica gel when the Case is opened and closed.

Make sure the camera is loaded properly

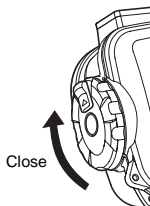
Check the following points before sealing the Case.

- Is the digital camera loaded properly?
- Is silica gel inserted all the way at the specified location?
- Is the O-ring attached properly to the opening on the Case?
- Is there any dirt or foreign matter on the O-ring or the O-ring contact surface on the front lid?
- Is the waterproof function maintenance performed? For details of the maintenance, see "6. Maintaining the Waterproof Function" (P.24) of this manual.

Seal the Case

- ① Close the Case gently while aligning the mounting projection of the rear lid and groove.
- ② Turn the open/close dial clockwise.
 - The Case is sealed.

En



⚠ CAUTION:

- If the open/close dial is not fully turned, the Case will not be sealed. This will cause water leakage.
- Close the rear lid of the Case so that the lens cap or LCD hood strap doesn't catch. If it catches, water leaks may result.

Check the operation of the loaded camera

After sealing the Case, check that the camera operations normally.

- ① Push the ON/OFF button on the Case and confirm that the camera turns ON/OFF.
- ② Press the shutter lever on the Case and confirm that the camera shutter releases.
 - Also operate other control buttons on the Case and confirm that the camera functions properly.

Perform the final checks

Visual Inspection

After sealing the Case, check the sealing part of front and rear lid visually to confirm that the O-ring is not twisted or out of the groove and that no foreign matter has been caught. Also check that the Case is not broken or cracked.

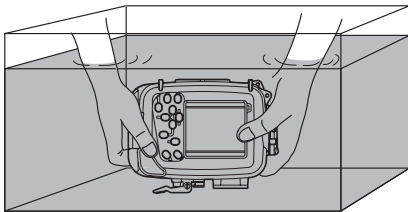
⚠ CAUTION:

Hairs, fibers, and other narrow items are not very apparent, but they may cause water leakage. In addition, pay special attention to breaks and cracks on the Case.

Water Leakage Test

The final test after loading the camera is explained below. Always perform this test. It can be performed easily in a water tank or a bathtub. The required time is about five minutes.

- At first, immerse the Case for only three seconds and check that no water drop etc. to the Case.
- Next, immerse the Case for 30 seconds and check that no water drop etc. to the Case.
- Furthermore, immerse the Case for three minutes.
- Check followings:
 - check that no water has accumulated the Case.
 - check that the Case is not clouded.
 - check that no water has entered the Case.
- If inside of the Case becomes cloudy or there is a water drop, do the maintenance of the O-ring and perform the water leakage test again.



4. Taking Pictures Under Water

Underwater shooting modes

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Underwater Wide-Angle 1

Suitable for shooting a scene that extends across a wide range such as a school of fish swimming through the water. Background blues are vividly reproduced.



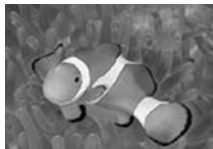
Underwater Wide-Angle 2

Suitable for shooting a large, fast moving subject such as a dolphin or manta ray. In many dolphin-watching locations, use of a flash is not permitted to avoid frightening the dolphins. Although this mode was originally designed to work without the flash, it can also be enabled if required, for example when shooting a manta ray.



Underwater Macro

Suitable for close-up shooting of small fish and other underwater creatures. Natural colors of the underwater are accurately reproduced.

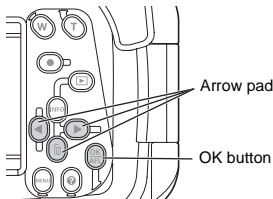


CAUTION:

When taking macro pictures on the wide-angle side, the flash light may be missing in some parts or the light volume may not be uniform. During underwater shooting, shooting conditions (water clarity, suspended matter, etc.) can have a significant effect on the range of the flash. Always check your pictures on the LCD monitor after shooting.

How to select the shooting scene

- ① Set the camera's shooting mode to "SCN".
- ② Press the down arrow pad (⏏ button) to move to the sub menu.
- ③ Press the left/right arrow pad to select the shooting scene, and then press the OK button.

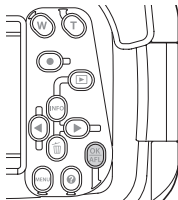


Locking AF during underwater shooting

When the "Underwater Wide-Angle 1" or "Underwater Macro" mode is selected, you can easily lock the focus position (AF lock operation) by pressing the OK button (AFL button) on the rear of the protector.

When the focus is locked, the AF lock indicator (AFL) appears on the top right of the LCD monitor screen of the camera.

To cancel the AF lock, press the OK button (AFL button) again.



Selecting the underwater movie mode

The underwater mode is available for μ TOUGH-8010/STYLUS TOUGH-8010 only.

Press the ● (REC) button when selecting the underwater mode.

5. Handling After Shooting

Wipe off any waterdrop

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After completing the shooting and returning to land or a ship, wash lightly in pure water and wipe off any waterdrop sticking to the Case. Use air or a soft cloth not leaving any fibers to thoroughly wipe any waterdrop etc. from the joint between the front and rear lid, the shutter lever, the palm grips, and the open/close dial.

⚠ CAUTION:

When waterdrops remain between the front and the rear lid, they may spill to the inside when the Case is opened. Take special care to wipe off all waterdrops.

Take out the digital camera

Open the Case carefully and take the digital camera out, then remove the adapter from the digital camera.

⚠ CAUTION:

- When opening the Case, take sufficient care that no water will drip from your hair or body onto the Case and the camera.
- Before opening the Case, make sure that your hands or gloves are free of sand, fibers, etc.
- Do not open or close the Case at locations where there is water spray or sand.
- Take care not to touch the digital camera or the battery with hands wet with sea water.

Wash the Case with pure water

After use, seal the Case again after taking out the camera and wash it sufficiently in pure water as soon as possible. After using in sea water, it is important to immerse it for a fixed time (30 minutes to 1 hour) in pure water to remove any salt.

⚠ CAUTION:

- Water leakage may occur when a high water pressure is partially applied. Before washing the Case with water, take out the digital camera from it.
- Operate the shutter lever and various buttons of this product in pure water to remove salt adhering to the shaft. Do not disassemble for cleaning.
- Drying the Case with salt adhered may impair the function. Always wash off any salt after use.

Dry the Case

After washing with pure water, use a clean cloth to wipe off any waterdrops. Be sure to use a cloth free of salt residue that doesn't leave any loose fibers. Dry the Case completely at a well ventilated location in the shade.

⚠ CAUTION:

- Do not use hot air from a hair dryer or the like for drying and do not expose the Case to direct sunlight, as this may accelerate deterioration and deformation of the Case and deterioration of the O-ring, leading to leakage of water.
- When wiping the Case, take care not to cause scratches.

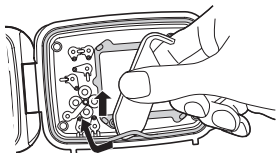
6. Maintaining the Waterproof Function

Whenever you open the rear lid of the Case, always be sure to perform the O-ring maintenance operation as described below. Perform at the location without sand or dust, after washing and drying your hands.

En

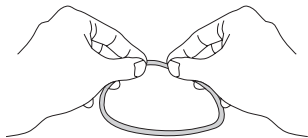
Remove the O-ring

- ① Insert the O-ring remover between the O-ring and the O-ring groove.
- ② Slip the tip of the inserted O-ring remover below the O-ring.
(Be careful not to scratch the O-ring groove with the tip of the O-ring remover.)
- ③ Hold the O-ring with your fingertips after it has come out of the groove and remove it from the Case.

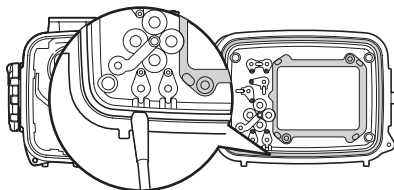


Remove any sand, dirt, etc.

After visually checking that dirt has been removed from the O-ring, checks for sand and other foreign matter adhered, damage and cracks can be done by squeezing the entire circumference of the O-ring lightly with your fingertips.



Remove any foreign matter adhered to the O-ring groove using a lint-free clean cloth or cotton swab. Also remove any sand or dirt adhered to the O-ring contact surface on the front lid of the case.







En

⚠ CAUTION:

- Maintenance of the waterproof functions is required even before using this product underwater for the first time.
- When a sharp object is used to remove the O-ring or to clean the inside of the O-ring groove, the Case and the O-ring may be damaged and water leakage may occur.
- Take care not to stretch the O-ring.
- Never use alcohol, thinner, benzene or similar solvents or chemical detergents to clean the O-ring. When such chemicals are used, the O-ring may be damaged or its deterioration will be accelerated.

How to Apply Grease to the O-ring

En

1	Apply the exclusive lubricant to each O-ring.		Make sure that your fingers and the O-ring are free of dirt, and squeeze about 5 mm of lubricant onto a finger. (5 mm is the most appropriate amount.)
2	Spread the lubricant all over the O-ring.		Apply the lubricant with three fingers and spread it over the ring. Be careful not to use force as this may stretch the O-ring.
3	Check that the O-ring is free of scratches or unevenness.		After spreading the lubricant, check visually and by touch that the O-ring is not scratched and that its surface is flat. If it is damaged in any way, be sure to replace it with a brand-new O-ring.
4	Apply lubricant on the O-ring contact surface.		Use the lubricant remaining on the fingers to clean and lubricate the case's contact surface.

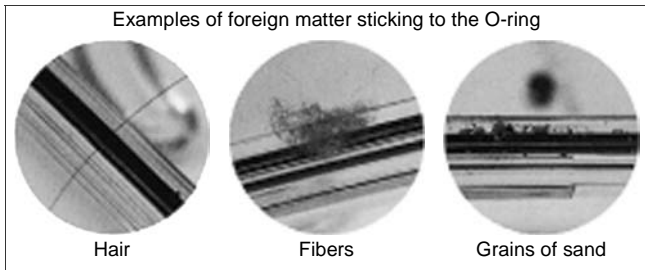
CAUTION:

- Always perform maintenance of the waterproof function even when the Case has been opened every shooting. Neglecting this maintenance may cause water leakage.
- When the Case is not to be used for a long time, remove the O-ring from the groove to prevent deformation of the O-ring, apply a thin coat of silicone grease, and store it in a clean plastic bag or the like.

Install the O-ring

Confirm that no foreign matter is adhered, apply a thin coat of the grease provided to the O-ring, and fit the O-ring into the groove. At this point, confirm that the O-ring does not stick out from the groove.

- When sealing this product, make sure that no hairs, fibers, sand particles or other foreign matter stick not only to the O-ring, but also to the contact surface (front cover). Even a single hair or a single grain of sand may cause water leakage. Please check with special care.



Replace consumable parts

- The O-ring is a consumable part. Regardless of the number of times the Case is used, it is recommended that the O-ring be replaced with a new one at least once a year.
- Deterioration of the O-ring is accelerated by the use conditions and the storage conditions. Replace the O-ring even before a year has passed if it shows signs of damage, crack or loss of elasticity.

Note:

- Please use genuine Olympus silicone grease, silica gel and O-ring.
- Do not try to replace the O-ring by yourself.
- We recommend to perform the check periodically.

7. Appendix

Specifications

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Compatible models	Olympus digital camera μ TOUGH-8010/STYLUS TOUGH-8010 μ TOUGH-6020/STYLUS TOUGH-6020
Pressure resistance	Depth of up to 40 m
Main materials	Body/Open/close dial/Grip/Shutter lever/ Operation buttons: Polycarbonate Lens window: Multiple coat glass Operate button shafts: stainless steel
Diameter of lens ring	Ø52 mm
Dimensions	Width 145 mm x height 109 mm x thickness 71 mm
Weight	365 g (camera and accessories not included)
Weight under water	μ TOUGH-6020/STYLUS TOUGH-6020: about 30g μ TOUGH-8010/STYLUS TOUGH-8010: about 65g (including camera, adapter, battery and media card) in the freshwater

* We reserve the right to change the external appearance and the specifications without notice.

Supplied accessories for PT-048

O-ring: POL-041

Silica gel: SILCA-5S

Silicone grease: PSOLG-2

LCD hood: PFUD-07

Lens cap: PRLC-12

Optical fiber cable adapter: PFCA-01

Adapter for μ TOUGH-6020/STYLUS TOUGH-6020: PTAC-06

Adapter for μ TOUGH-8010/STYLUS TOUGH-8010: PTAC-07

Sold separately accessories

Silicone grease: PSOLG-3

Optical fiber cable: PTCB-E02

Underwater flash: UFL-1

UFL-2 (μ TOUGH-8010/STYLUS TOUGH-8010 only)

Short arm: PTSA-02, PTSA-03

Step-up ring (52mm to 67mm): PSUR-03

Underwater wide conversion lens: PTWC-01

Underwater macro conversion lens: PTMC-01

Maintenance kit: PMS-02

Accessories can be purchased.

Products of other model types describing above cannot be used.

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