

Thank you for your purchase of a SEA&SEA product. For proper operation of the product and safe handling, please read the following instructions carefully before use. This manual should be retained for future reference.

**Note:**

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

**Precautions**

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.

**CAUTION** Situations that could result in property damage or personal injury.

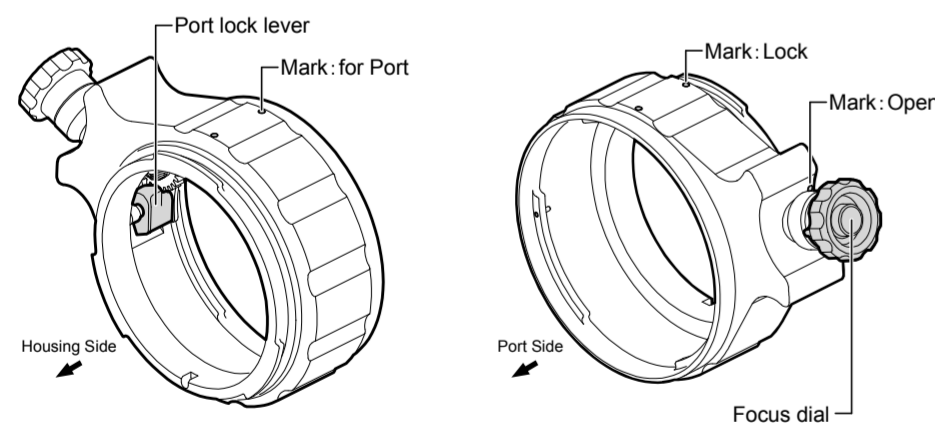
**CAUTION**

- Always make sure that the camera, strobe, light and accessories are securely mounted to prevent them from falling off, becoming lost, causing personal injury or equipment malfunction.
- When in use, check the Clamp lever or screws, and tighten them when they loosen.
- Do not assemble the arm or other underwater photography equipment in sandy or dusty environments.
- Do not assemble product in an environment where sand or dust is present. Screws and other parts may attract sand or dust etc. and cause fault during attachment.
- 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.
- 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 leave the product in places with hot temperatures such as inside of a car or in a car trunk in summer.
- Do not store the product in wet or high humidity place, to avoid mold, rust, corrosion or malfunction.
- Do not store the product wet. Thoroughly dry the product surface using a soft non-scratching cloth to prevent spot marks.
- 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 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. assumes no liability for errors or discrepancies in this manual.

**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, 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.
- 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.

**Identification of Parts**



**About Extension Ring 46 with Focus Knob**

- This product provides manual focus with the focus knob when used with a compatible port, a compatible focus gear and an MDX series SLR housing.
- Using the Left Grip Extension is recommended for even better handling.

**CAUTION**

- A compatible focus gear is required to manually adjust focus.
- This product is not compatible with RDX series housings.
- The procedure for attaching this product is specific to the MDX series housing being used. Follow the appropriate instructions after conforming with which housing you intend to use.
- Do not hold by the Focus Knob when fitting or removing the extension ring. Doing so could cause damage and affect the watertight integrity of this product, leading to leaks.
- Incorrect fitting and mishandling of this product may cause damage to the camera, the lens and the lens gear.

**Specifications**

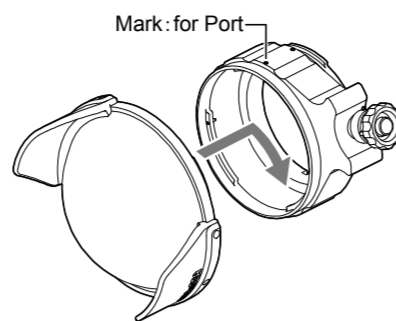
Construction	Corrosion-resistant aluminum alloy
Dimension(DIA×D)	Approx. Φ132×61.4mm / Φ5.2×2.4inc
Weight	Approx. 525g / 18.5oz
Accessories	Instruction manual (this manual)

\* The specifications and appearance are subject to change without notice.

**Mounting the Port**

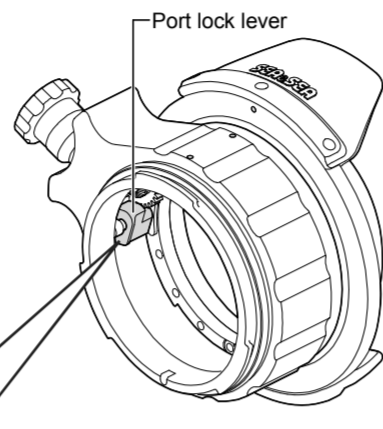
**1 Align the mark for PORT and the OPEN mark. Push the port into the extension ring and turn the port clockwise.**

- Do not hold by the Focus Knob when fitting or removing the extension ring. Doing so could cause damage and affect the watertight integrity of this product, leading to leaks.
- Check the O-rings and the O-ring grooves on the port and extension ring to ensure there are no scratches or cracks.
- Turn the port clockwise till the mark for PORT and the LOCK mark align.
- If it is difficult to turn the port, remove the O-ring and lubricate in accordance with the O-ring maintenance manual (included with MDX housings).
- Do not use excessive force to turn the port. Doing so may cause damage to the port and extension ring.

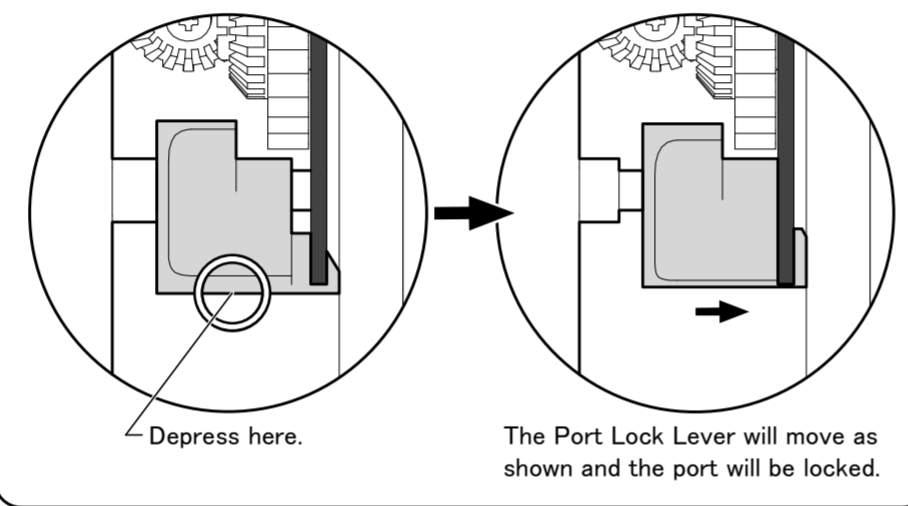


**2 Lock the port by depressing the Port Lock lever.**

- Before submerging the housing, ensure the port is locked and the Port Lock Lever is in its designated position.
- If the port is not properly locked, it may accidentally turn and allow water into the housing.



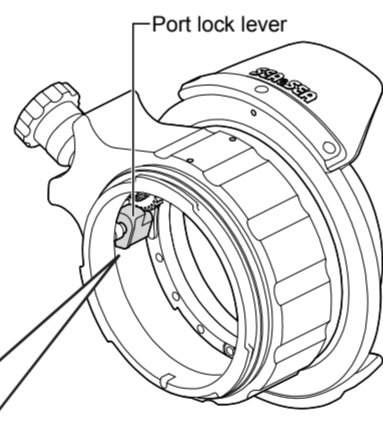
**Locking the Port.**



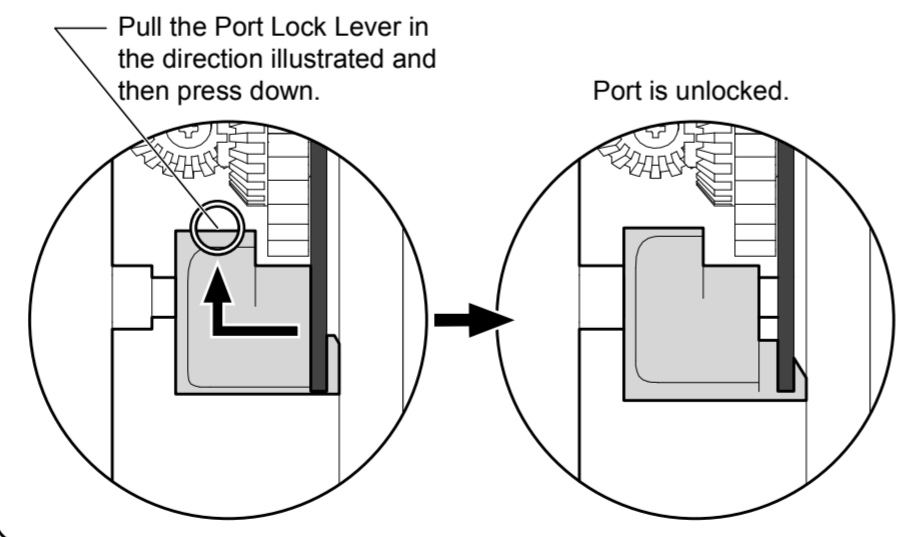
**Removing the Port**

**1 Unlock the port by operating the Port Lock Lever.**

- Do not attempt to turn the port whilst it is locked. Doing so may damage the extension ring and the port.
- After use in seawater, soak the system thoroughly in fresh water then dry. Remove the port and the extension ring to store. Failing to do so will allow crystallization of salt residue and as a result it may become difficult to detach the extension ring and the port.

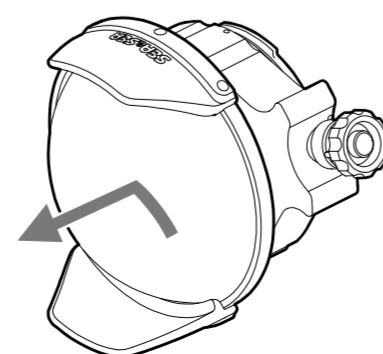


**Releasing the Port**



**2 Hold the extension ring firmly and turn the port anticlockwise. Pull the port forward.**

- Do not hold by the Focus Knob when fitting or removing the extension ring. Doing so could cause damage and affect the watertight integrity of this product, leading to leaks.
- Turn the port till the PORT mark and OPEN mark align.
- Do not use excessive force to turn the port. Doing so may cause damage to the port and extension ring.

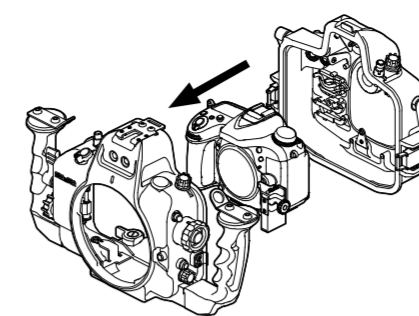


**For Housings Equipped with Lens Release Button.**

**Mounting the Extension Ring**

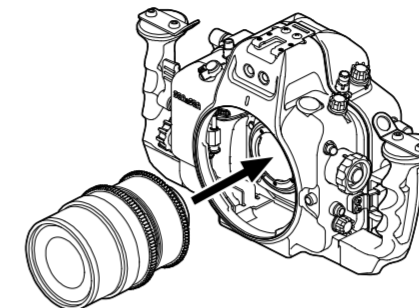
**1 Mount the camera in the housing and close the rear case.**

- Complete the above procedure with body cap mounted on the camera.



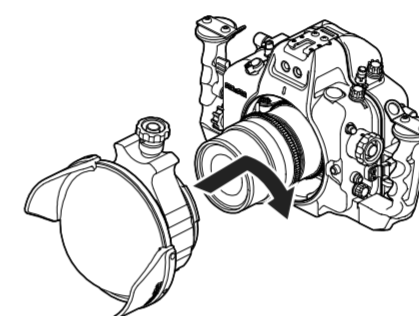
**2 Place the housing upright and then fit the lens to the camera through the front opening of the housing.**

- Before attaching the lens to the camera, mount a compatible gear.
- Follow the instruction sheet supplied with the lens gear when mounted the gear.
- Complete the above procedures with the housing in an upright position to prevent dust and/or foreign objects from entering the camera and/or lens.



**3 Ensure the Port Lock is unlocked and then fit the extension ring/port combination. After mounting, lock the extension ring.**

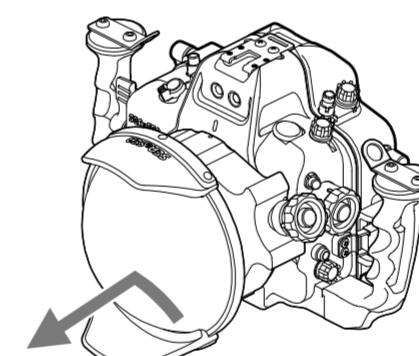
- Do not hold by the Focus Knob when fitting or removing the extension ring. Doing so could cause damage and affect the watertight integrity of this product, leading to leaks.
- Check the O-rings and the O-ring grooves on the port and extension ring to ensure there are no scratches or cracks.
- If it is difficult to turn the port, remove the O-ring and lubricate in accordance with the O-ring maintenance manual (included with MDX housings).
- Do not use excessive force to turn the port. Doing so may cause damage to the port and extension ring.
- Follow the housing's instruction manual when locking the extension ring.
- Do not use excessive force to mount the extension ring. Doing so may damage the camera and/or lens.



**Removing the Extension Ring**

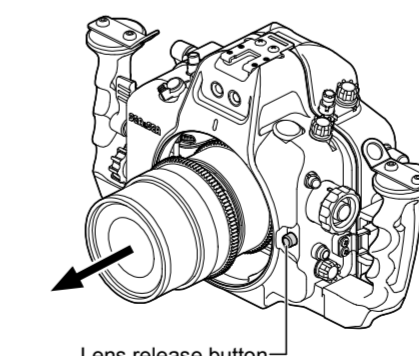
**1 With the housing in an upright position, unlock the extension ring and remove.**

- Do not hold by the Focus Knob when fitting or removing the extension ring. Doing so could cause damage and affect the watertight integrity of this product, leading to leaks.
- Do not attempt to turn the port whilst locked. Doing so may damage the extension ring and port.
- Follow the housing's instruction manual when unlocking the extension ring.
- Dry the housing, extension ring and port completely before removing the extension ring to avoid water-damage to the camera and lens.
- After use in seawater, soak the system thoroughly in fresh water then dry. Remove the port and the extension ring to store. Failing to do so will allow crystallization of salt residue and as a result it may become difficult to detach the extension ring and the port.



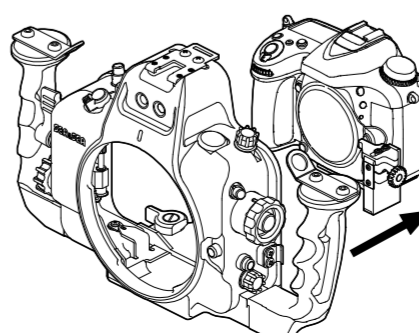
**2 Using the Lens Release Button, detach the lens from the camera.**

- Follow the housing's instruction manual when removing the lens from the camera.
- Complete the above procedures with the housing in an upright position to prevent dust and/or foreign objects from entering the camera and/or lens.
- After removing the lens from the camera, immediately replace the body cap and lens caps.



**3 Open the housing rear case and remove the camera from the housing.**

- Complete the above procedure with body cap mounted on the camera.

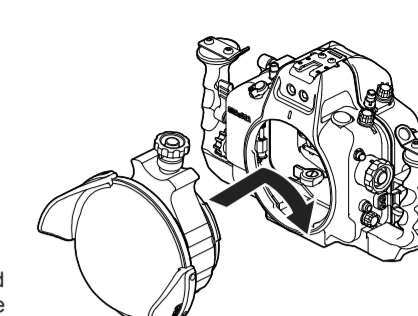


**For Housings without Lens Release Button.**

**Mounting the Extension Ring**

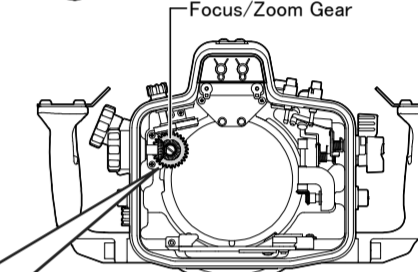
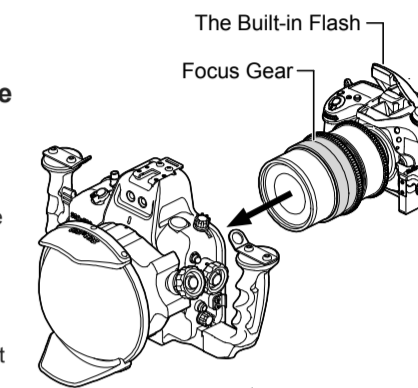
**1 Mount the extension ring to the housing and then lock from inside housing.**

- Do not hold by the Focus Knob when fitting or removing the extension ring. Doing so could cause damage and affect the watertight integrity of this product, leading to leaks.
- Check the O-rings and the O-ring grooves on the port and extension ring to ensure there are no scratches or cracks.
- If it is difficult to turn the port, remove the O-ring and lubricate in accordance with the O-ring maintenance manual (included with MDX housings).
- Do not use excessive force to turn the port. Doing so may cause damage to the port and extension ring.
- Follow the housing's instruction manual when locking the extension ring.

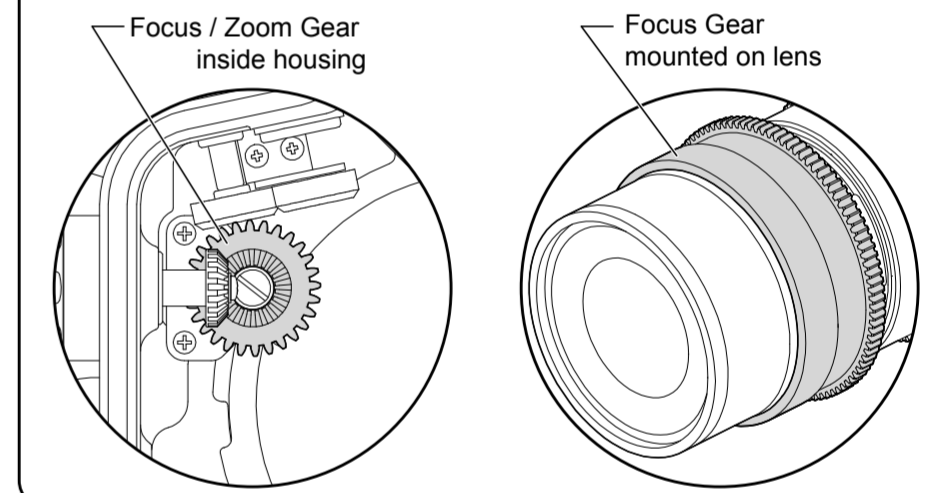


**2 After mounting a lens gear and fitting the lens to the camera, mount the camera in the housing and close the rear case.**

- When mounting the camera, take care not to hit the lens and gear against the focus/zoom gearing in the housing.
- When mounting the camera with the built-in flash raised (and the light-shielding plate fitted) take care not to hit the flash against the housing.
- Take care not to hit the camera, lens or gear against the housing whilst mounting to avoid possible damage.
- Before locking the camera quick shoe, ensure all gears are meshed correctly by operating the knobs on the housing and the extension ring.
- Refer to lens gear instruction sheet to for how to mount gear on lens.



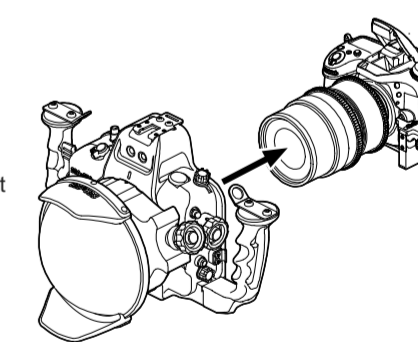
**Take care not to damage the gears or lens when mounting camera.**



**Removing the Extension Ring**

**1 Open the rear case and remove camera from the housing.**

- Take care not to hit the lens gear against the focus/zoom gearing in the housing when removing the camera.
- Take care not to hit the camera, lens or gear against the housing whilst mounting to avoid possible damage.



**2 Unlock the extension ring from inside the housing and detach.**

- Ensure to unlock the extension ring before detaching. Failing to do so may damage the housing and extension ring.
- Do not hold by the Focus Knob when fitting or removing the extension ring. Doing so could cause damage and affect the watertight integrity of this product, leading to leaks.
- Do not use excessive force to turn the port. Doing so may cause damage to the port and extension ring.

