Nauticam
innovation underwater

NA - BMCC

Underwater Camera Housing

Instruction manual

Foreword

Thank you for your purchase of a NAUTICAM digital camera housing.

At NAUTICAM, we pride ourselves on the ability to recognise the requirements of professional as well as amateur underwater photographers and fulfill them through the innovative designs of our products. We strive to achieve a high level of user-friendliness by allowing stress-free installation and easy operation of all important functions of the camera.

Each housing is individually inspected and water pressure tested to ensure optimum quality.

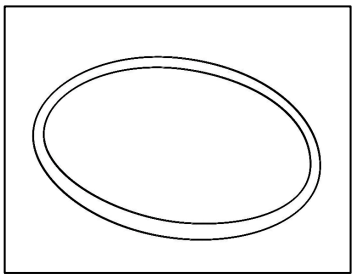
Please read this manual carefully before using the housing, this will maximise its performance as well as its lifetime.

Warranty

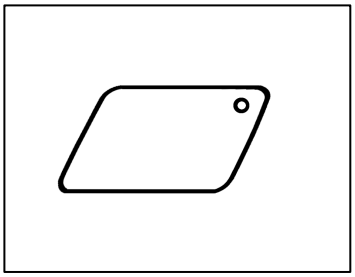
1. All NAUTICAM Products are warranted against any material and manufacturing defects for one year from the date of purchase for consumer use.
2. NAUTICAM accepts no liability for any damage to and defects in the housing caused by improper use and/or poor maintenance; it is the responsibility of the owner to carefully follow the instructions in this manual.
3. NAUTICAM does not hold responsibility for damage, of any nature, to any equipment used with and/or placed within the housing.
4. NAUTICAM accepts no liability for any loss of captured images or the inability to capture images even if it is due to the malfunctioning or leakage of the housing.
5. This warranty only applies to products purchased from authorised NAUTICAM dealers and does not extend beyond the original retail purchaser.
6. Unauthorised modifications and/or repairs of the housing will automatically invalidate this warranty.
7. To return products for service, please contact our regional distributor, normally you would need to notify them by email first and ship them the product by registered mail, along with your contact details and a brief description of the defect.

Package Contents

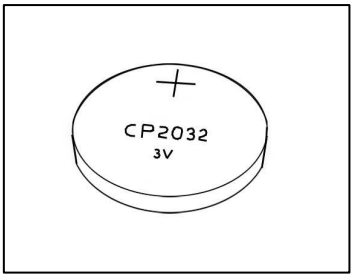
1. NA-BMCC housing
2. Instruction manual
3. Spare silicone rubber main o-ring
4. O-ring remover
5. CR2032 battery (for moisture alarm)
6. Lubricant
7. Set of Allen keys



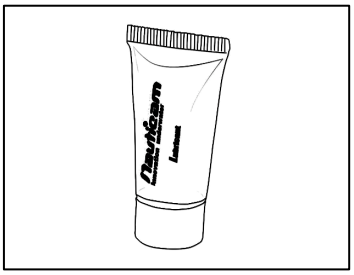
Spare silicone rubber o-ring



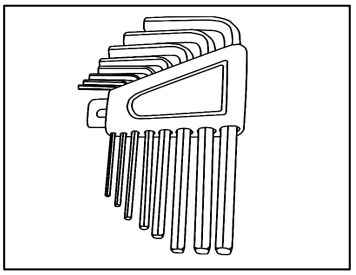
O-ring remover



CR2032 battery



Lubricant



Set of Allen keys

Precautions

1. A water-tight test without the camera inside the housing is highly recommended when using the system for the first time and after the changing of port and O-ring(s).
2. Do not use lubricants from other brands with the silicone rubber O-ring on this housing, only use the lubricant provided by NAUTICAM.
3. Discontinue use immediately should you notice any leakage.
4. Store the housing in a robust, shock-proof container during transportation; avoid transporting with any equipment, such as a camera, inside the housing.
5. When travelling by air, do not close the housing if the port is installed, as this may lead to a pressure difference between the atmosphere and inside the housing.
6. Care must be taken when opening the housing, as pressure may build up inside the housing which increases the opening force.
7. Do not open the product in a wet or sandy environment. Protect the interior from moisture and debris in order to prevent malfunction or leakage.
8. Do not store the product in an environment of high humidity.
9. Do not leave the housing and the camera in direct sunlight for prolonged periods.
10. Keep out of reach of children, failure to do so could result in injury.
11. Defective products should be shipped to our distributors for service, unauthorized disassembling and/or modifications could result in malfunction or leakage.

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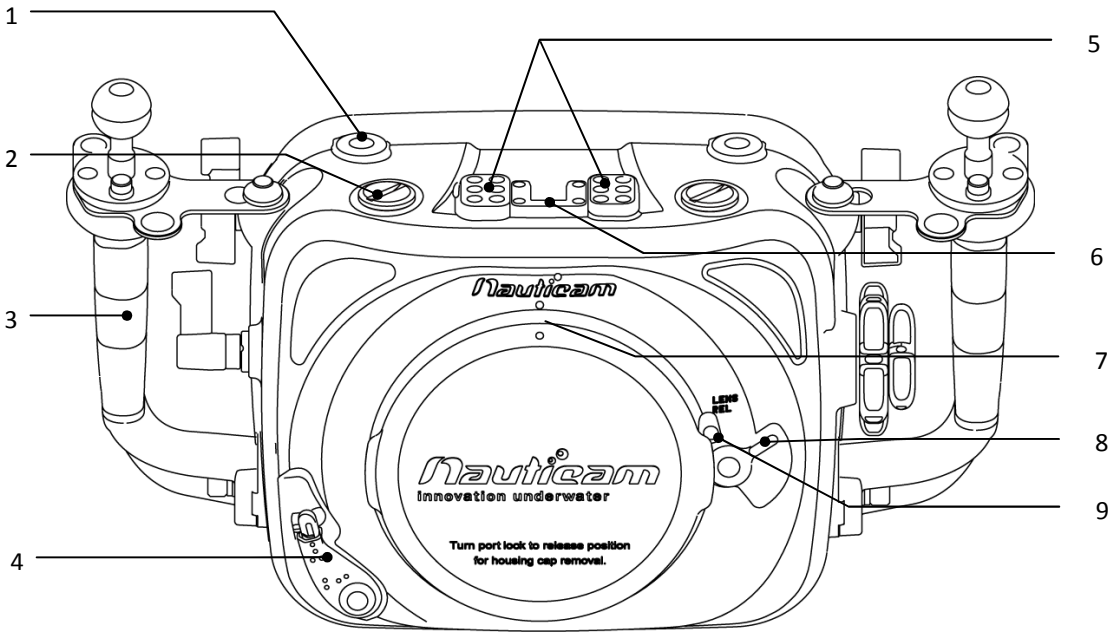
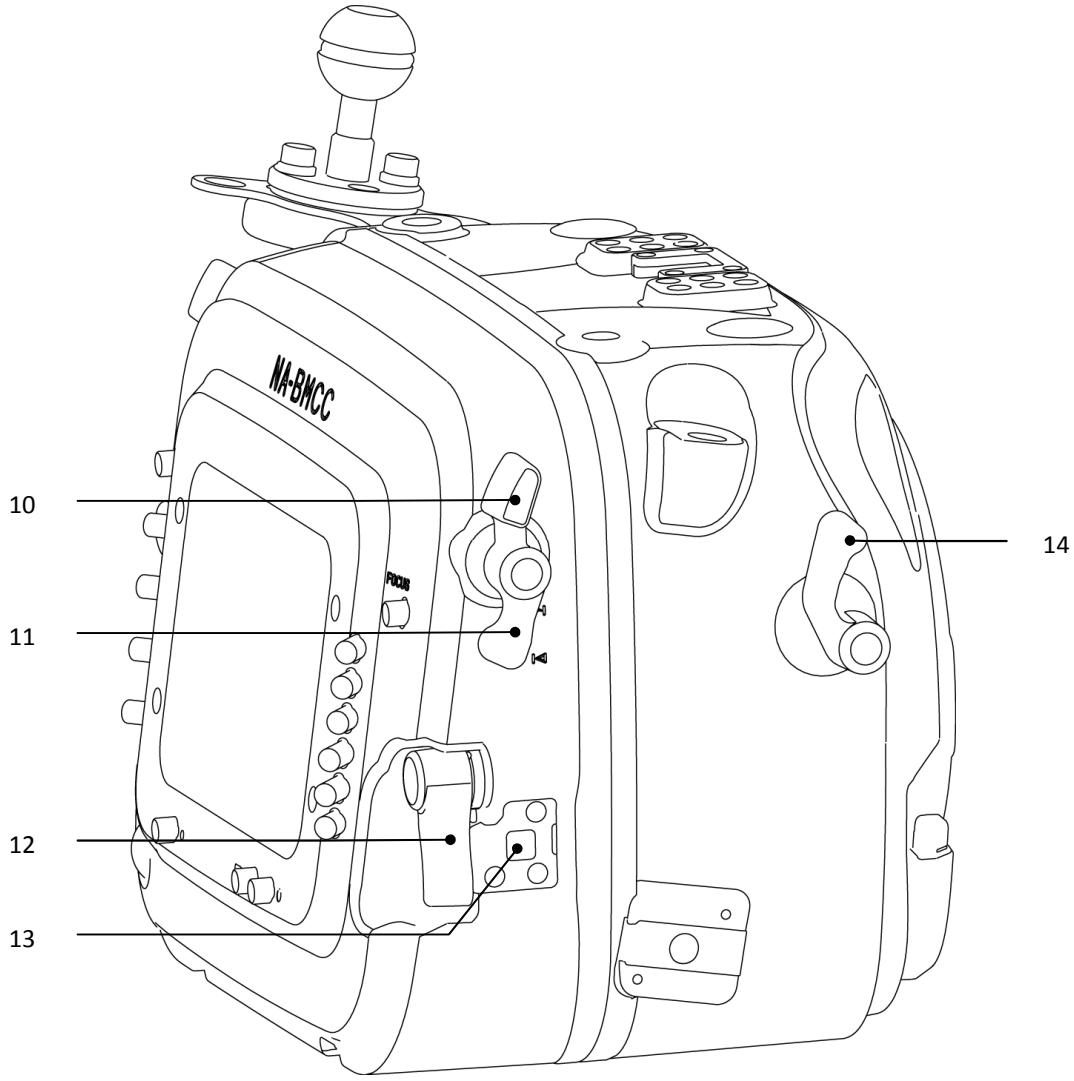
Specifications

Construction	Housing body:	Aluminium alloy
	Surface treatment:	Hard anodised
	Display window:	Abrasion resistant polycarbonate
	Grip handles:	Polycarbonate and rubber
Dimensions (with handles)	Width:	392mm
	Height:	190mm
	Depth:	178mm
Weight	Approx. 4.19kg (without camera)	
Buoyancy	Negative	
Depth rating	100 metres	

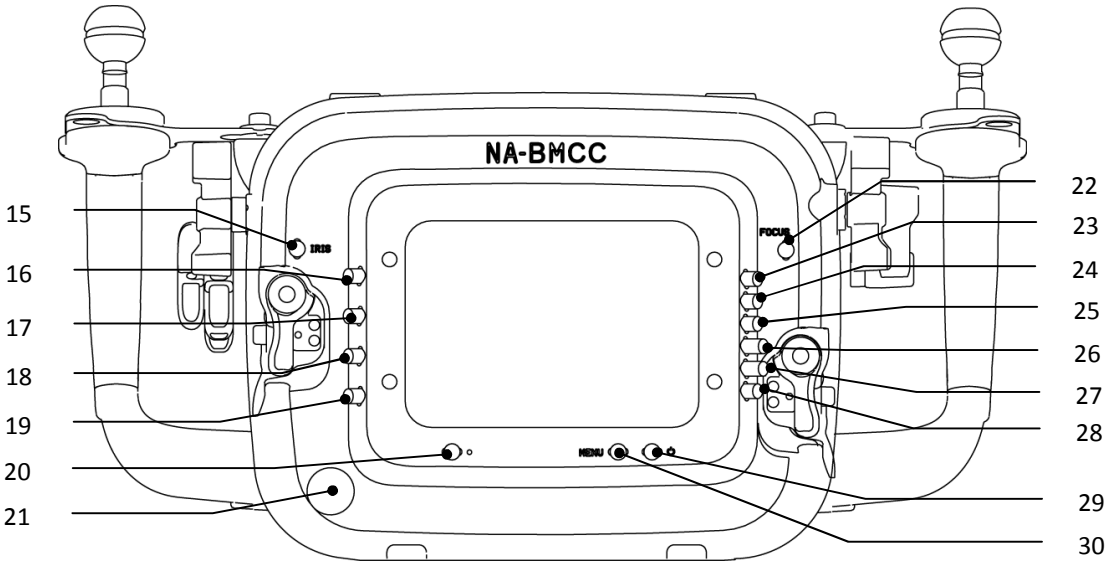
Identification of Parts



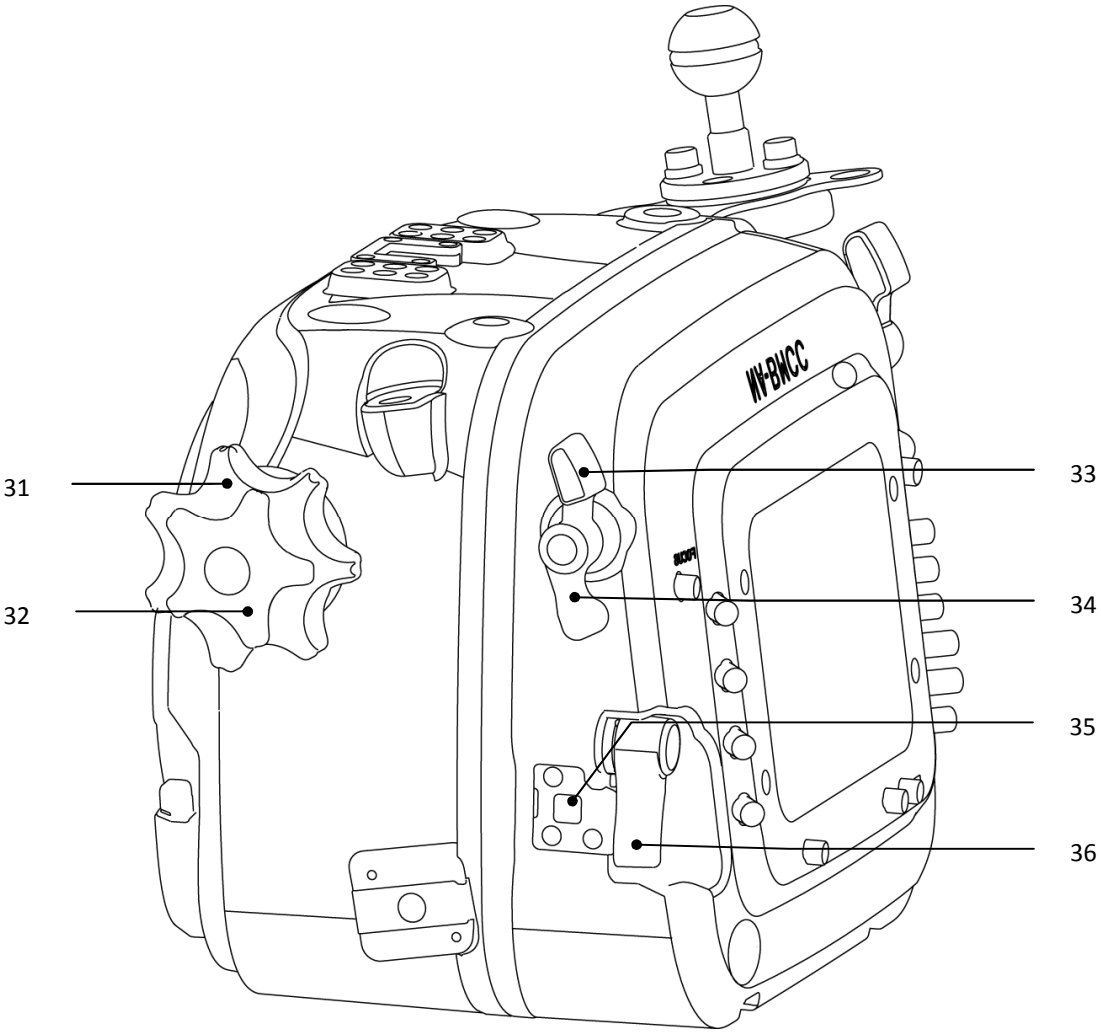
1	M10 mounting base x2	6	Accessory coldshoe
2	M16 accessory port x2	7	Port alignment index
3	Grip handle x 2	8	Lens release button
4	Port lock/release lever	9	Zoom/ focus gear disengagement lever
5	1/4"-20 UNC threaded holes x12		



10	Forward lever	13	Housing lock safety button (R)
11	Reverse lever	14	REC lever
12	Housing lock (R)		



15	Iris button	23	Recording Format right selection arrow button
16	Camera Settings button	24	Dynamic Range right selection arrow button
17	Audio Settings button	25	Frame Rate right selection arrow button
18	Recorder Settings button	26	ISO/ Time Lapse Interval/ right selection arrow button
19	Display Setting button	27	White Balance right selection arrow button
20	Record button	28	Shutter Angle right selection arrow button
21	Moisture alarm window	29	Power button
22	Focus button	30	Menu button

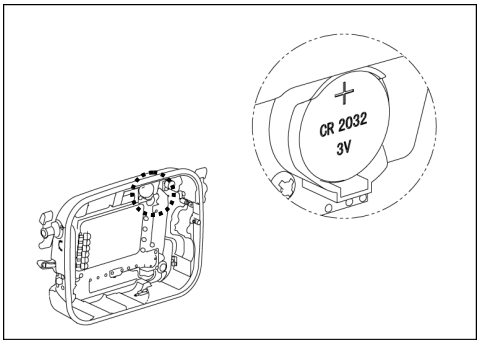


31	Zoom knob	34	Play lever
32	Focus knob	35	Housing lock (L)
33	Stop lever	36	Housing lock safety button (L)

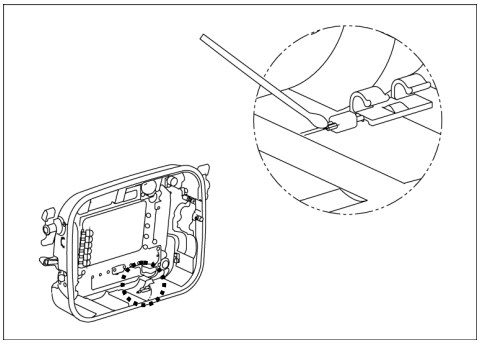
Preparation of the Housing

1. After verifying that the main O-ring is in good condition, lightly coat it with the lubricant provided.
2. Make sure the O-ring groove located in the front part of the housing is free from any foreign material; the groove can be cleaned with the aid of a microfiber cloth.
3. Place the main O-ring into the groove by gently pushing it, first at the corners, then the whole perimeter.
4. (Optional) If necessary, spacers (25011) can be used to increase space between the grip handles and the housing; A pair of small handles (28123) is also available to decrease space between the grip handles and the housing.

<u>Setting up the moisture alarm</u>



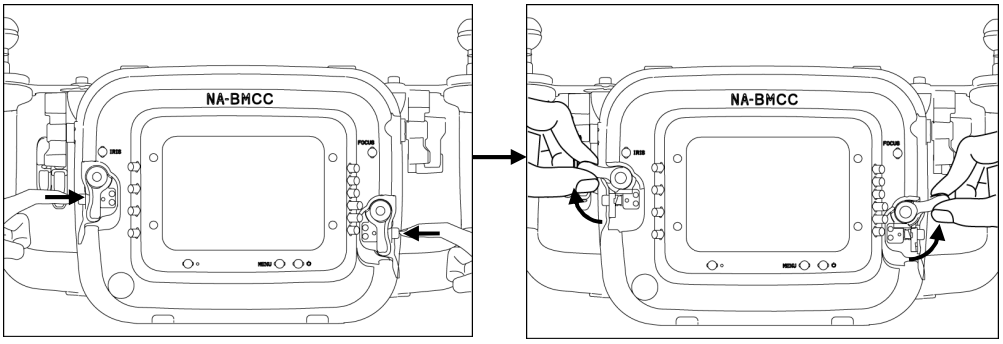
1. Install the CR2032 battery provided into the battery compartment on the circuit board inside the rear part of the housing.



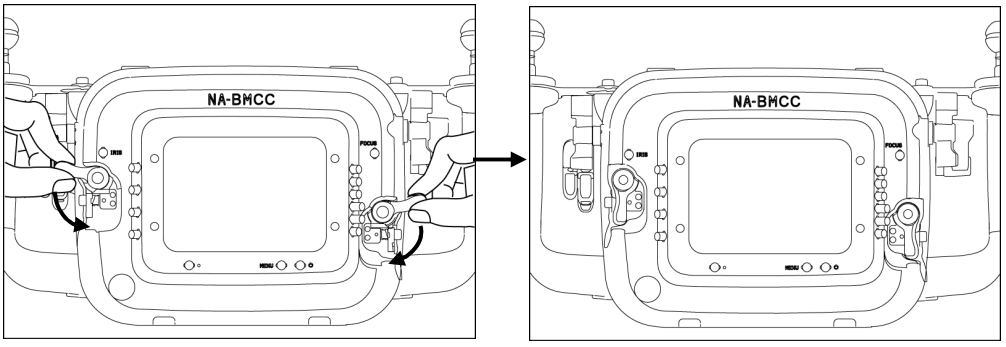
2. Test the alarm by contacting the two wires near the bottom of the housing with a damped cotton bud; the alarm should start giving out a repeating "beep" sound along with a flashing red light. The "beep" sound and the light should keep on going for 5 seconds after the removal of the damped cotton bud.

Opening and Closing the Housing

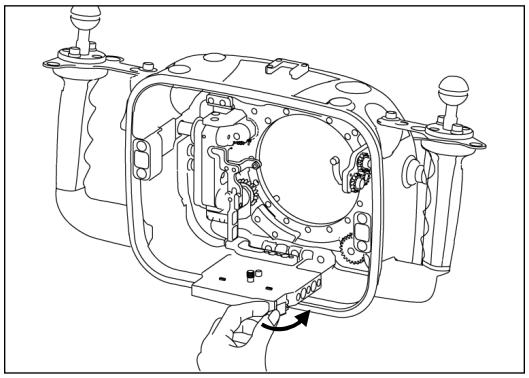
1. Always open and close the housing with the front facing down, place the housing on a flat surface or in your lap.
2. When closing, make sure there is nothing caught between the closing surfaces of the two halves of the housing.
3. The housing can be opened and closed by operating the two housing locks; when opening, press the safety buttons, then turn the locks outwards.



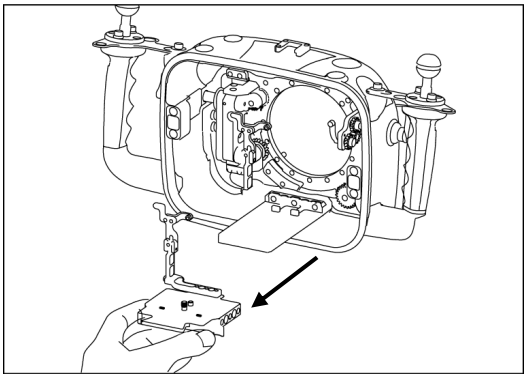
4. To close, turn the locks towards the housing, and then make sure they are locked in place securely.



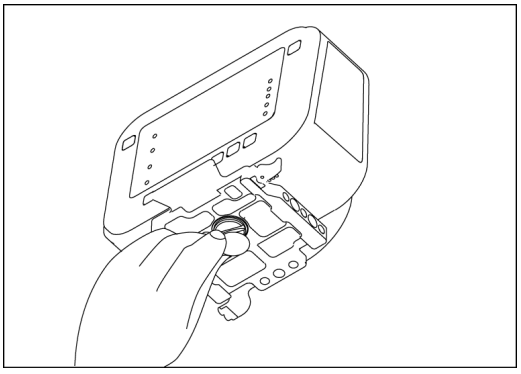
Installing the Camera



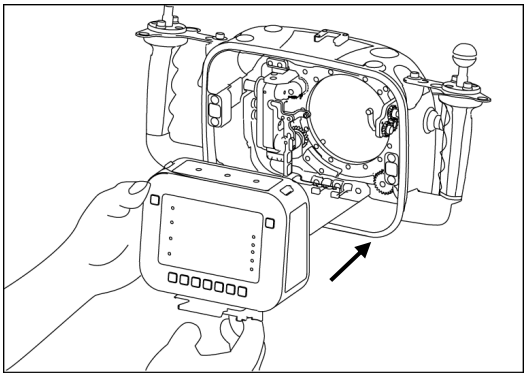
1. Turn the locking lever on the tray of the housing to the “open” position.



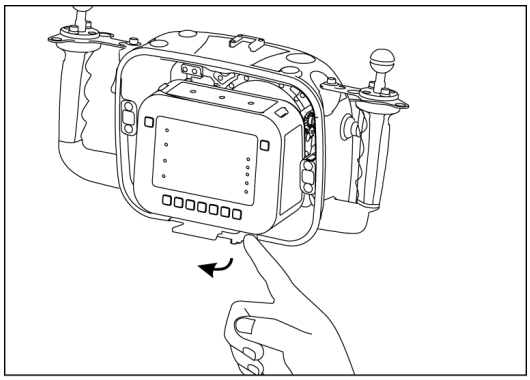
2. Remove the camera saddle from the housing..



3. Attach the saddle to the camera by tightening the screw to the tripod socket of the camera with a screwdriver or a coin.



4. Mount the camera by sliding the attached saddle along the rail in the housing until it cannot go in any further.



5. Lock the camera into place by turning the locking lever to the “lock” position.

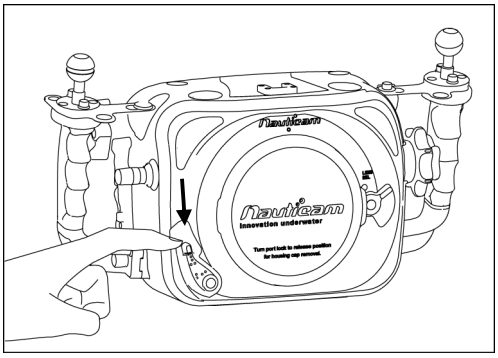
6. Confirm that all the controls of the housing are correctly engaged.

7. For removal of the camera from the housing, reverse the above procedures.

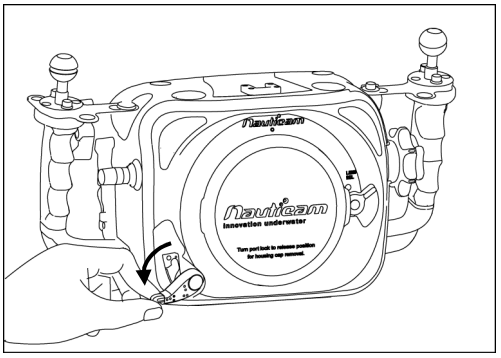
Mounting the Port

Please refer to the NAUTICAM port system chart for a range of compatible ports; note that extension rings may be needed for certain lenses and adaptors are available for the attachment of ports of other manufacturers.

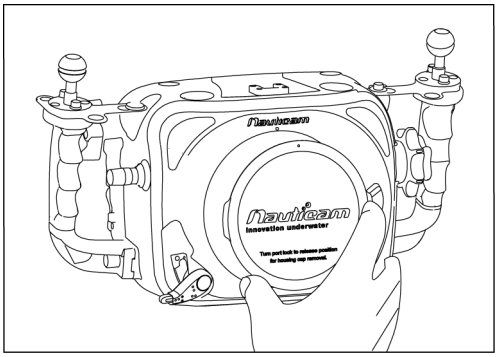
To remove housing cap:



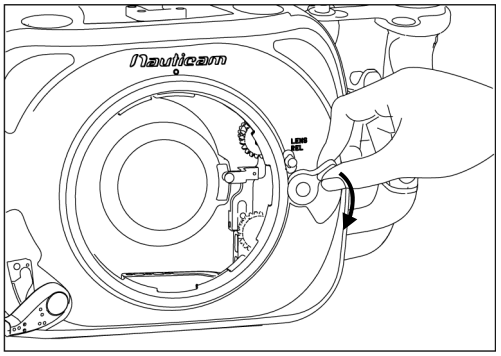
1. Push the safety button of the port locking lever downwards.



2. Turn the port locking lever to the release position as shown..



3. Lift housing cap.

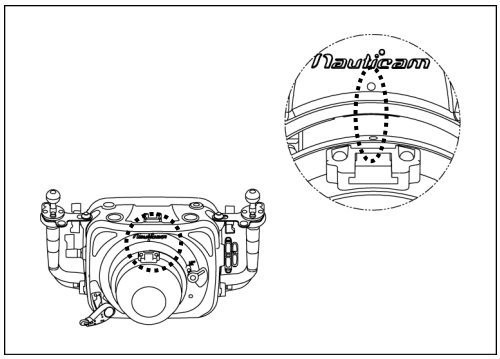


4. Pull down the Zoom/ focus gear disengagement lever before mounting lens (with gears installed) to the camera. Engage the gears by pulling up the lever to the original position. Confirm that the zoom/focus knob operates correctly.

To mount port:

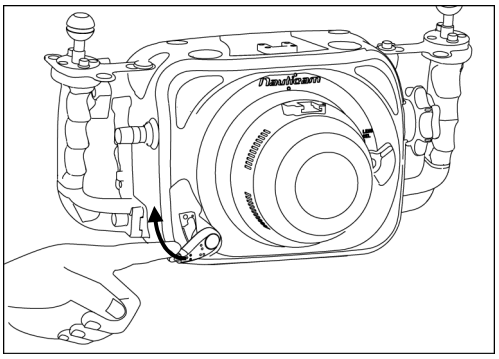
5. Remove the O-ring from the port, inspect for any damage and lightly coat it with the provided lubricant before placing it back into its groove.

6. Verify that the port opening of the housing is clean and free from foreign material.



7. Align the mounting indices of the port and the housing; these appear as white circles on both the port and the housing.

8. Gently push the port into the opening of the housing, until it cannot go in any further.

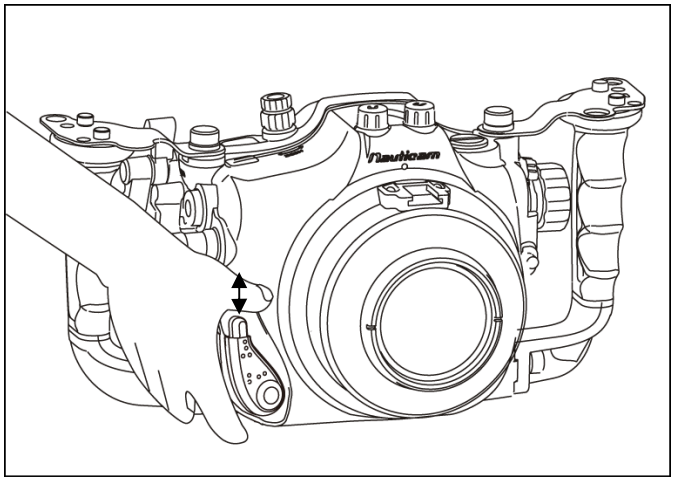


9. Lock the port into place by turning the port locking lever to the inward position. To ensure that the port is securely mounted, confirm that the green line on the safety button of the port locking lever is visible.

10. To remove the port from the housing, simply turn the port locking lever to the outward position and gently pull it out.

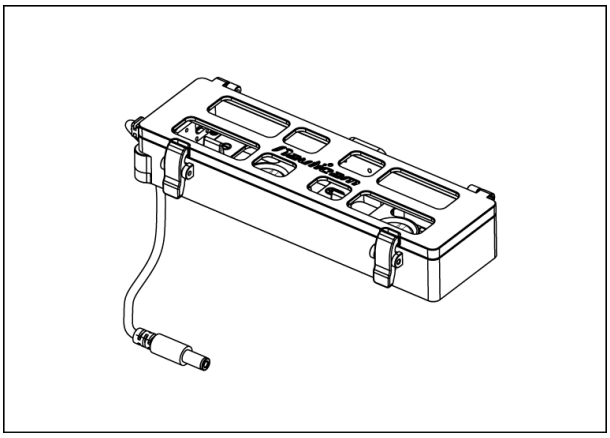
Care and Maintanence

1. Soak the housing system in fresh water after each salt water use, during which all control buttons/knobs should be operated a few times to avoid the accumulation of salt residue; wipe the housing with a towel before opening.
2. Carefully press the port locking safety button and the two housing lock safety buttons for a few times to avoid the accumulation of salt residue. Hold the port lock in "locked" position while pressing the safety buttons.



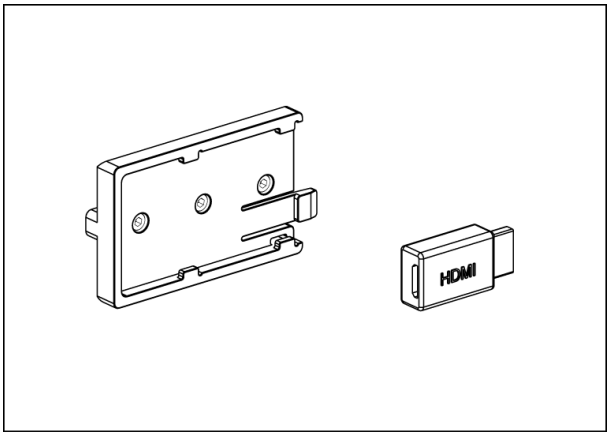
3. After each day of diving, it is advisable to have the main O-ring in the front part of the housing removed from its groove with the O-ring remover and inspected for damage. Also check that the O-ring retains its original circular shape; never stretch the O-ring excessively or remove it with a sharp object. The O-ring groove should be cleaned to ensure it is free from any salt deposit or foreign material; lightly coat the O-ring with the provided lubricant before reinstalling it in the groove. A damaged O-ring should be discarded immediately and replaced only with one that is provided by NAUTICAM.
4. Replace the main O-ring annually.
5. It is recommended that you ship the housing to our distributor for a complete overhaul every year or after every 200 dives.

Optional Accessories



P.N. 16211

4x18650 Battery holder for NA-BMCC



P.N. 16212

Bracket for AtomOS Connect S2H with HDMI A to C adaptor to use with 16211

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