

# NA - NINJA2

Underwater Camera Housing  
Instruction manual



# Foreword

Thank you for your purchase of a NAUTICAM 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.

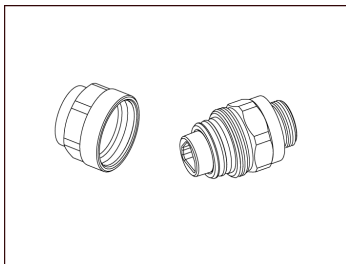
Please read this manual carefully before using the housing, this will maximise its performance as well as its lifetime.

# Warranty

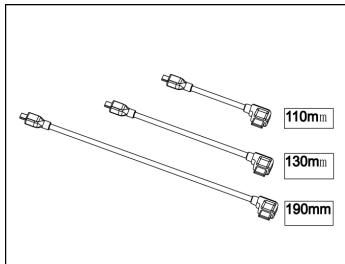
1. All NAUTICAM Products are warranted against any material and manufacturing defects for two years from the date of purchase for consumer use. Except HDMI cables are limited to 4months.
2. NAUTICAM accepts no liability for any damage to and defects in the housing caused by improper use and/or poor maintenance; 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

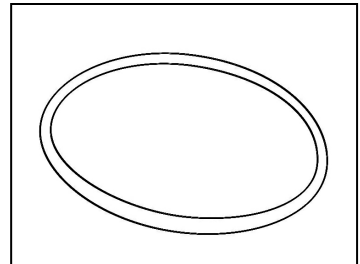
1. NA-NINJA2 housing
2. Standard HDMI bulkhead with M16 thread with cap
3. HDMI (D-C) cables (110mm, 130mm, 190mm)
4. Instruction manual
5. Spare silicone rubber main o-ring
6. O-ring remover
7. CR2032 battery (for moisture alarm)
8. Lubricant



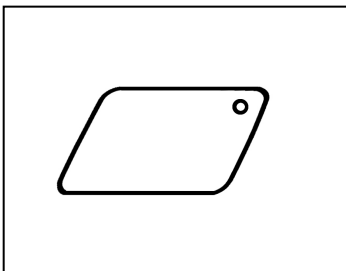
HDMI bulkhead with M16  
thread with cap



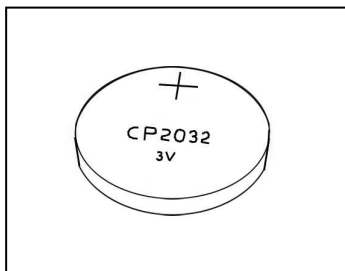
HDMI cables (110mm,  
130mm, 190mm)



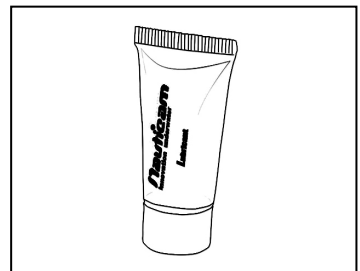
Spare silicone rubber o-ring



O-ring remover



CR2032 battery



Lubricant

# Precautions

1. A water-tight test without the monitor 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 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 monitor 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.

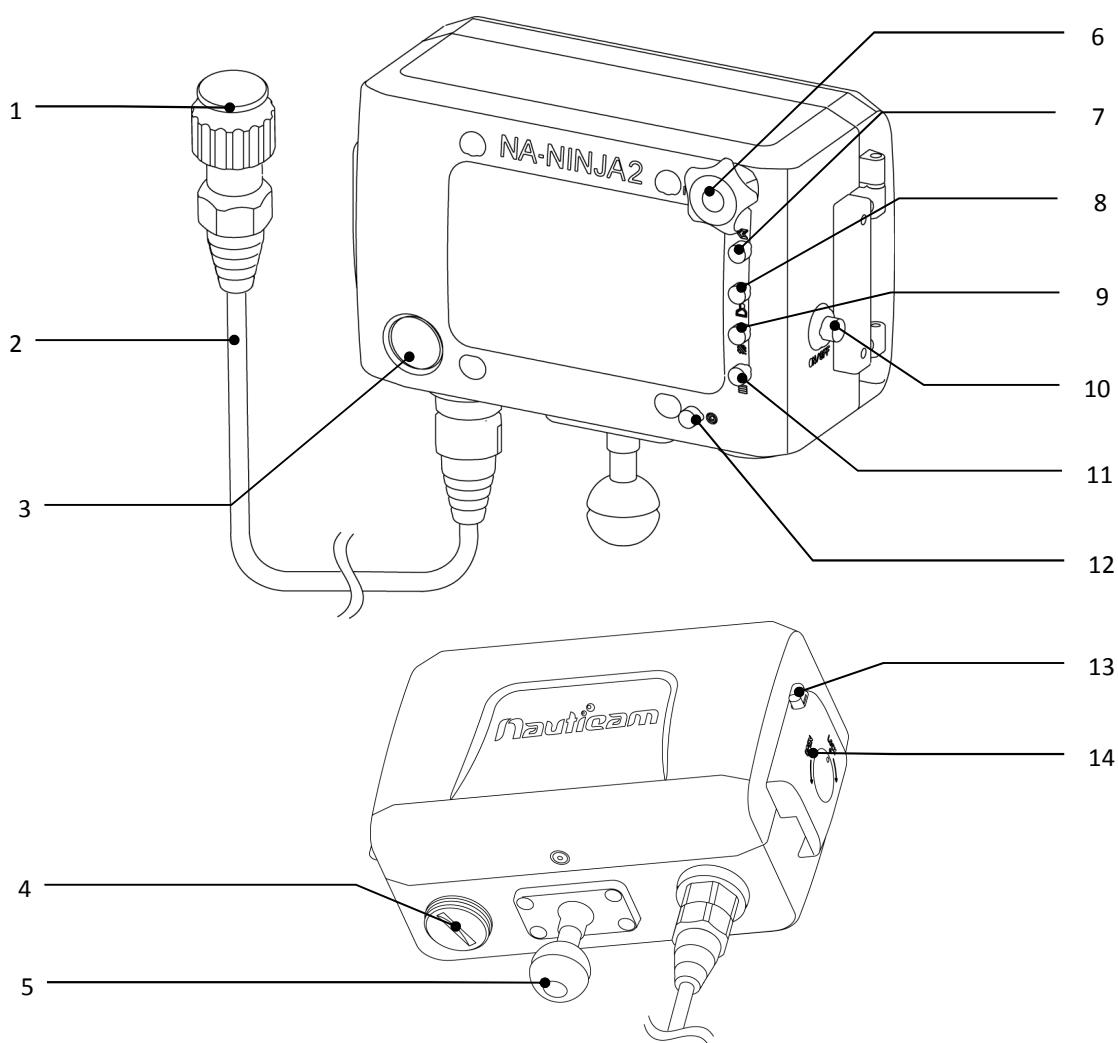
# Table of Contents

<i>Specifications</i>	6
<i>Identification of Parts</i>	7
<i>Opening and Locking the Housing</i>	8
<i>Preparation of the Housing</i>	9
<i>Installing the Camera</i>	10
<i>Connecting to the Camera Housing</i>	11
<i>Care and Maintenance</i>	15
<i>Optional Accessories</i>	16

# Specifications

Construction	Housing body:	Aluminium alloy
	Surface treatment:	Hard anodised
	Display window:	Abrasion resistant polycarbonate
Dimensions	Width:	190mm
	Height:	164mm
	Depth:	95mm
Weight	Approx. 1.09kg	
Buoyancy	About neutral	
Depth rating	100 metres	
Operating Temperature	Normal operating temperature is between 10°C and 40°C. For usage outside the stated temperature range, please contact our dealers for more information.	

# Identification of Parts

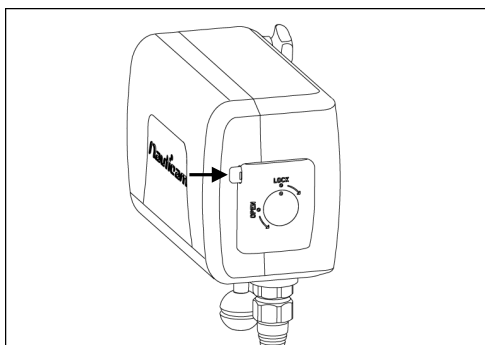


1	Cap for HDMI cable	8	Focus Peaking button
2	HDMI cable	9	Zebra button
3	Moisture alarm window	10	On/ off button
4	M22 accessory port	11	False Colour button
5	Ball joint	12	Record/ Blue for Exposure button
6	Menu function knob	13	Housing lock safety button
7	Back/ Cancel button	14	Housing lock

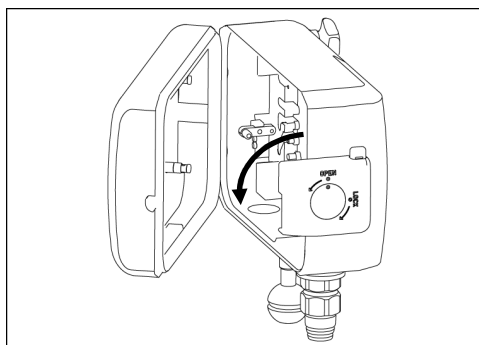


# Opening and locking the housing

To open the housing:

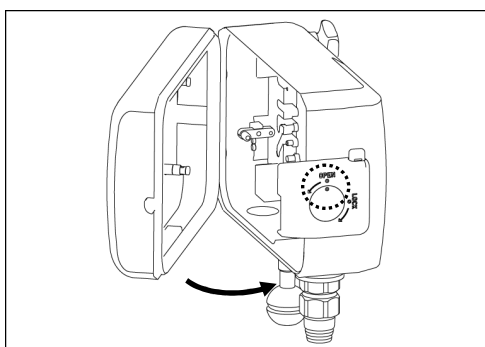


1. Press the housing lock safety button.

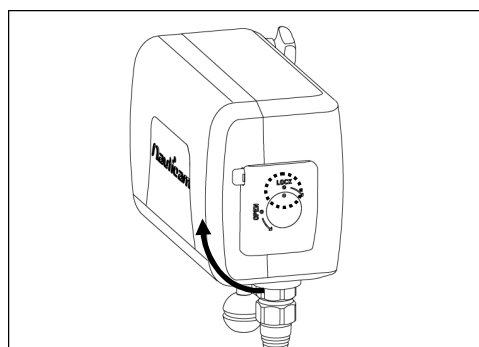


2. Turn the housing lock anti-clockwise for  $270^\circ$ , until the lock reaches the "Open" position as shown.

To lock the housing:



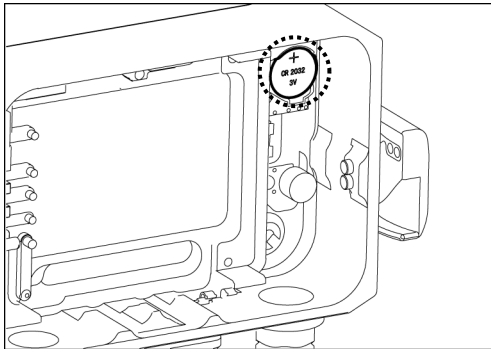
3. Close the housing while the housing lock is in the "Open" position.



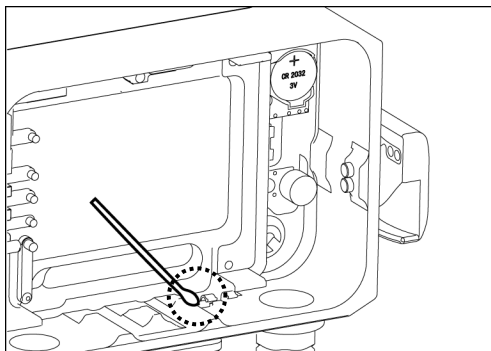
4. Turn the housing lock clockwise for  $270^\circ$ , until the lock reaches the "lock" position as shown. Confirm that the white indicator line on the safety button is visible.

# 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 rear 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, first at the corners, then the whole perimeter.
4. Setting up the moisture alarm:



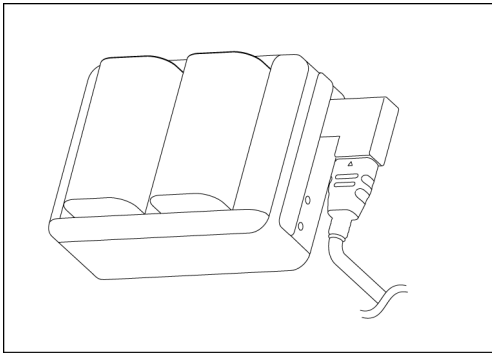
1. Install the CR2032 battery provided into the battery compartment on the circuit board inside the rear part of the housing.



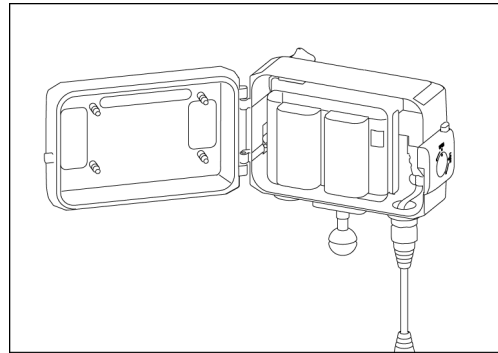
2. Test the alarm by contacting the two wires near the bottom of the housing with a damped cotton bud; the alarm should start giving out a repeating “beep” sound along with a flashing red light. The “beep” sound and the light should keep on going for 5 seconds after the removal of the damped cotton bud.

# Installing the Monitor

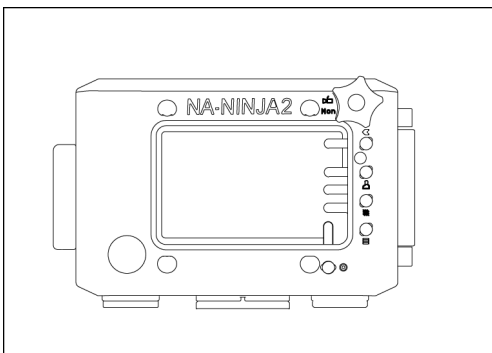
To install the monitor into the housing:



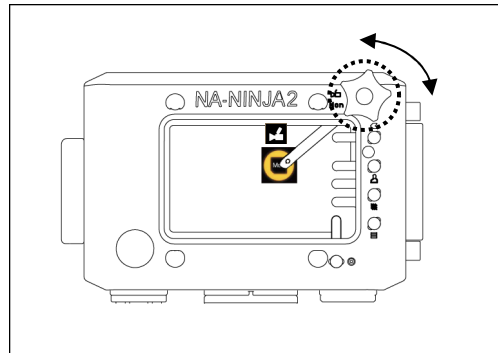
1. Connect the HDMI cable with "L" connector to the monitor.



2. Place the monitor inside the housing as shown.



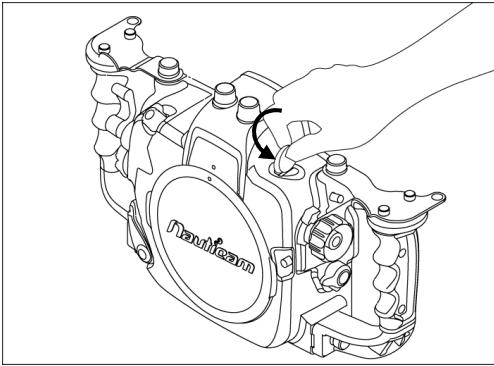
3. Confirm that all the controls of the housing are correctly engaged.



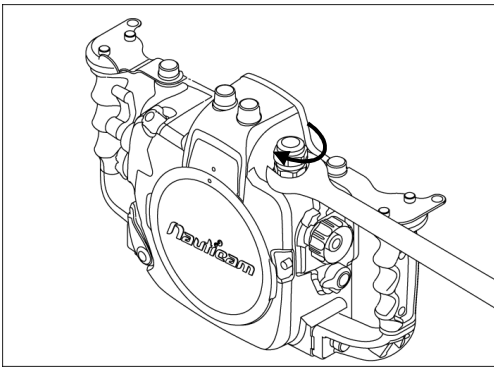
4. Rotate the menu function knob anti-clockwise for accessing the "Camcorder" icon and "Mon" icon on the screen.

# Connecting to the camera housing

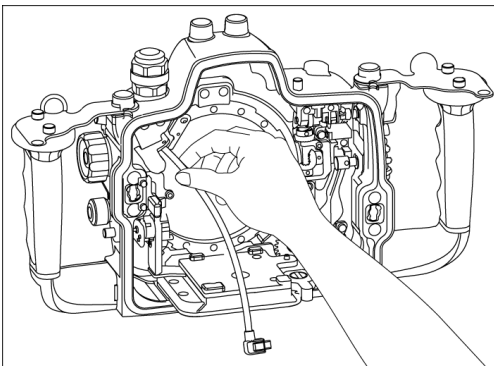
For installing the standard HDMI bulkhead with M16 thread:



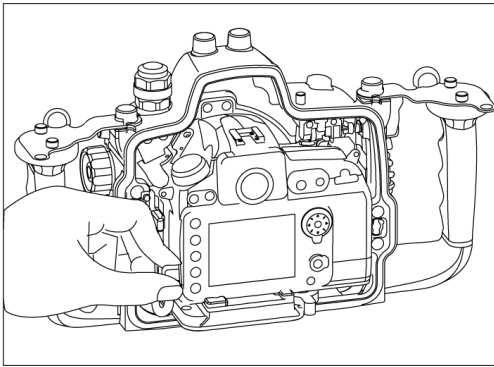
- i. Unscrew the M16 plug from the threaded hole with a coin.



- ii. Tighten the HDMI bulkhead with a spanner.

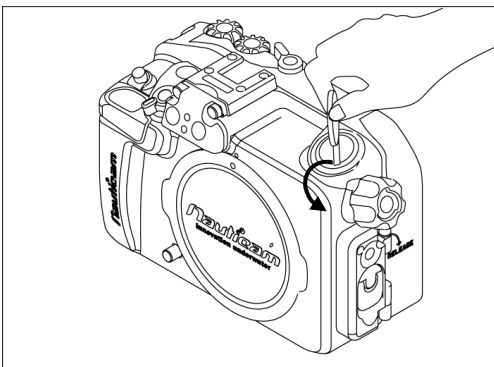


- iii. Connect the HDMI cable to the HDMI bulkhead.

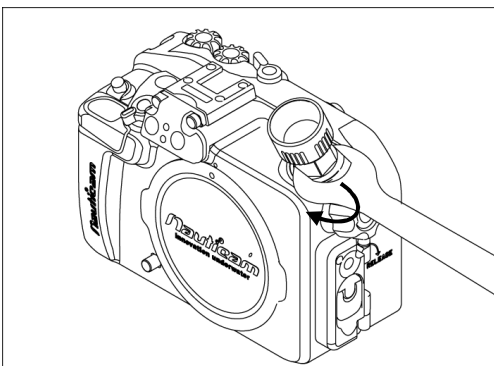


- iv. Connect the HDMI cable to the camera's HDMI connector.

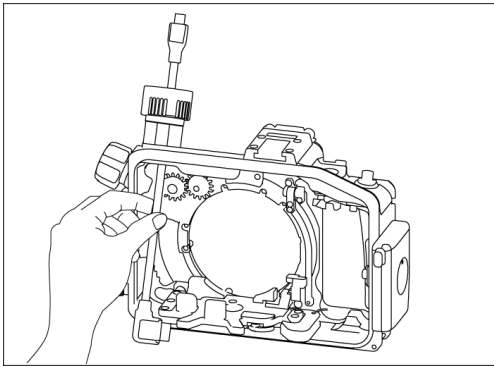
For installing the custom HDMI bulkhead to use with extension:



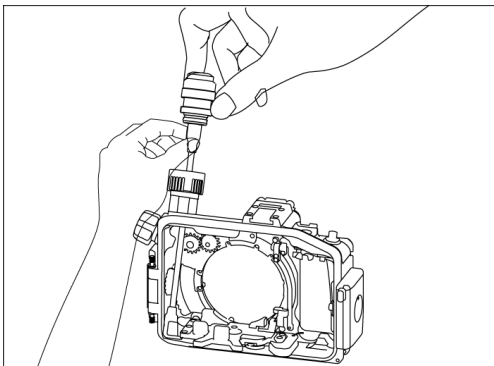
- i. Unscrew the M16 plug from the accessory port with a coin.



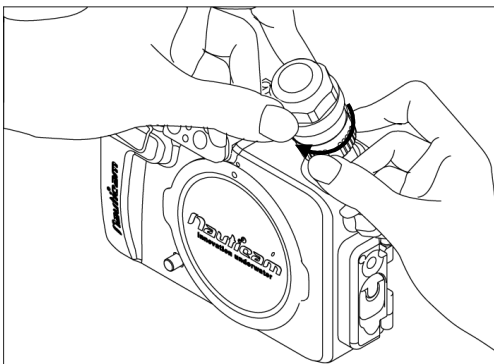
- ii. Tighten the socket extension to the camera housing with a spanner.



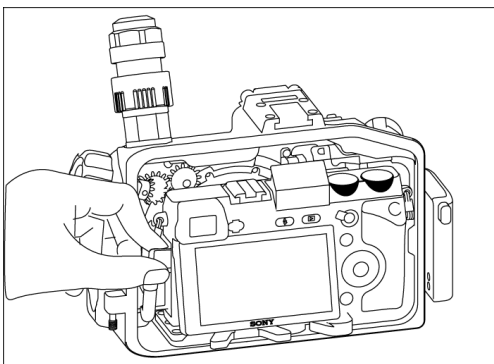
- iii. Insert the HDMI cable through the threaded hole from inside of the housing.



- iv. Connect the HDMI cable to the HDMI bulkhead.

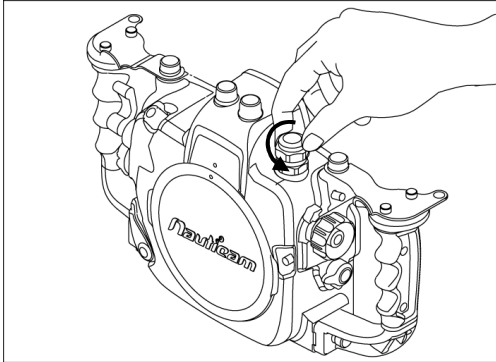


- v. Tighten the HDMI bulkhead by turning the threaded ring on the socket extension.

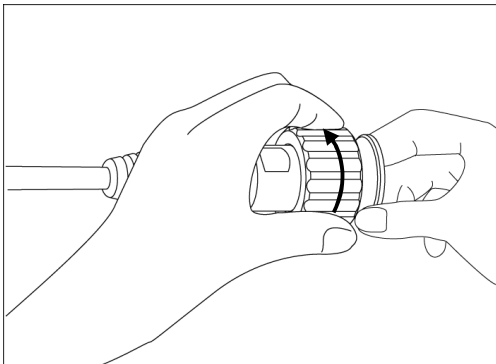


- vi. Connect the HDMI cable to the camera's HDMI connector.

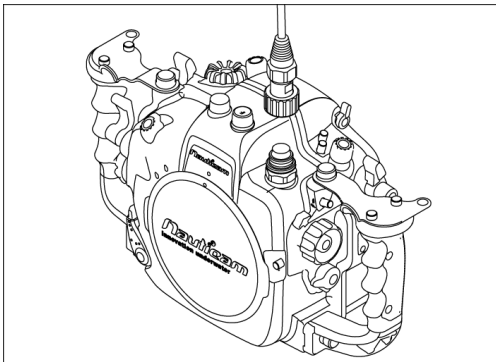
For connecting NA-NINJA2 to HDMI bulkhead:



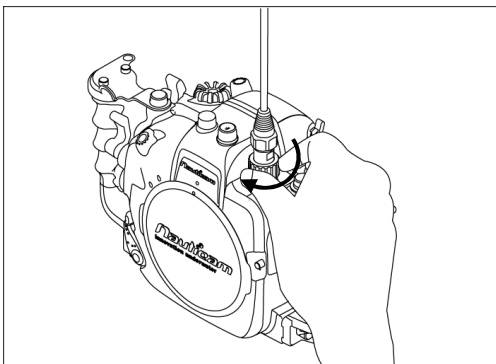
- i. Unscrew the cap of the HDMI bulkhead.



- ii. Unscrew the cap of the NA-NINJA2 HDMI cable.



- iii. Align and plug the HDMI cable in the HDMI bulkhead.



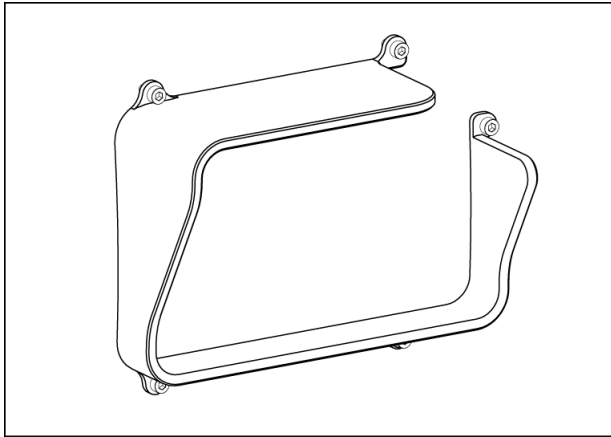
- iv. Tighten the connection by turning the threaded ring on the HDMI cable.

# Care and Maintenance

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 housing lock safety button for a few times to avoid the accumulation of salt residue.
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. 17912

Monitor hood for NA-NINJA2 housing

**NAUTICAM International Limited**  
**Room 2203,**  
**CCT Telecom Building,**  
**11 Wo Shing Street,**  
**Fotan, HONG KONG**

**Email: [enquiry@nauticam.com](mailto:enquiry@nauticam.com)**  
**Tel: +852 2690 2711**  
**Fax: +852 2690 9778**

