

# NA - Atomos Flame Housing

Instruction manual



## FORWARD

Thank you for your purchase of a NAUTICAM housing.

At NAUTICAM, we pride ourselves in the ability to recognize 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 maximize its performance as well as its lifetime.

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## WARRANTY

All NAUTICAM Products are warranted against any material and manufacturing defects for two years from the date of purchase for consumer use, and exceptionally HDMI and SDI cables are limited to one year. The warranty period is defined by the invoicing or payment date by the customer. Alternatively, the warranty period would be assumed from the day that the product is shipped from our facility. This warranty only applies to products purchased from authorized NAUTICAM dealers and does not extend beyond the original retail purchaser.

To return your product for service, please contact your regional authorized service center(s). Please note that this warranty only applies when the product is purchased in the territory where the service center is located.

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 our manuals.

NAUTICAM does not hold responsibility for damage, of any nature, to any equipment used with and/or placed within our products.

NAUTICAM accepts no liability for any loss of captured images or the inability to capture images even if it is due to the malfunctioning of our products.

Unauthorized modifications and/or repairs of our products will automatically invalidate the warranty.

## PACKAGE CONTENTS

- NA-Nauticam Atomos Flame Housing
- 25625 M16 Vacuum Valve (pre-installed)
- 90138 Housing O-ring
- 25632 Hand Pump for Vacuum Valve
- O-ring Remover
- CR2032 Battery (pre-installed)
- Lubricant
- Padded Travel Case

### ***For 17909 Nauticam Atomos Flame Housing (with HDMI 1.4 input)***

1. 25033 Standard HDMI bulkhead with M16 thread
2. 25036 HDMI(D-C) cable in 190mm length (for connection from HDMI bulkhead to camera)
3. 25046 HDMI(D-D) cable in 200mm length (for connection from HDMI bulkhead to camera)
4. 25071 HDMI Cable (A-D) in 0.75m length (for connection from Shogun housing to HDMI bulkhead) - (Pre-installed)

### ***For 17909N Nauticam Atomos Flame Housing (with HDMI 2.0 input)***

1. Cables are not included.

*Depend on Camera models, different HDMI2.0 cables are required.*

### ***For 17910 Nauticam Atomos Flame Housing (with SDI input)***

1. 90163 SDI Cable in 0.85m length (for connection from SDI bulkhead and Shogun flame monitor) – (Pre-installed)
2. 25058 M16 SDI Bulkhead
3. 25060 SDI Cable in 0.3m length (for connection from camera to underside of SDI Bulkhead)

## PRECAUTIONS

- 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).
- Do not use lubricants from other brands with the silicone rubber O-ring on this housing, only use the lubricant provided by NAUTICAM.
- Discontinue use immediately should you notice any leakage.
- Store the housing in a robust, shock-proof container during transportation; avoid transporting with any equipment, such as a camera, inside the housing.
- When travelling by air, do not close the housing as this may lead to a pressure difference between the atmosphere and inside the housing.
- Care must be taken when opening the housing, as pressure may build up inside the housing which increases the opening force.

- 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.
- Do not store the product in an environment of high humidity.
- Do not leave the housing and the monitor in direct sunlight for prolonged periods.
- Keep out of reach of children, failure to do so could result in injury.
- Defective products should be shipped to our distributors for service, unauthorized disassembling and/or modifications could result in malfunction or leakage.
- Use only recommended battery with this product, do not mix different specifications or old and new batteries.
- Do not place excessive stress on your HDMI cable connector.
- Do not bend or twist your HDMI cable.

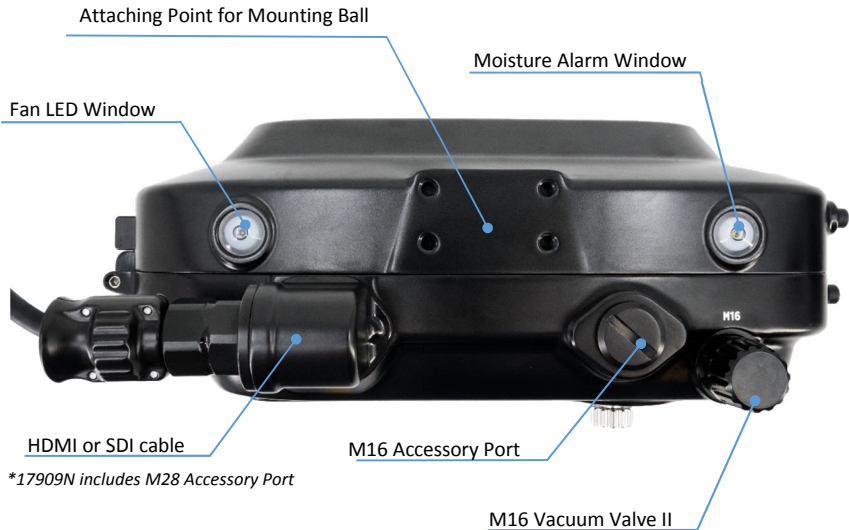
## SPECIFICATIONS

Construction	Housing body:	Aluminum alloy
	Surface treatment:	Hard anodized
	Display window:	Abrasion resistant polycarbonate
Dimensions	Width:	289mm
	Height:	177mm
	Depth:	105mm
Weight in Air	2.35kg (17909 and 17910), 2.24kg (17909N)	
Weight in Water	-0.4Kg (17909 and 17910), -0.52kg (17909N)	
Depth rating	60 m	
Compatible monitor	1) 17909 : Atomos Ninja Flame/Shogun Flame/Ninja Inferno/Shogun Inferno 7" 10-bit 4K/HD SDI / HDMI Recorder/Monitor/Player 2) 17909N: Atomos Ninja Flame/Shogun Flame/Ninja Inferno/Shogun Inferno 7" 10-bit 4K/HD SDI / HDMI Recorder/Monitor/Player 2) 17910: Atomos Ninja Flame/Shogun Flame/Shogun Inferno 7" 10-bit 4K/HD SDI / HDMI Recorder/Monitor/Player	

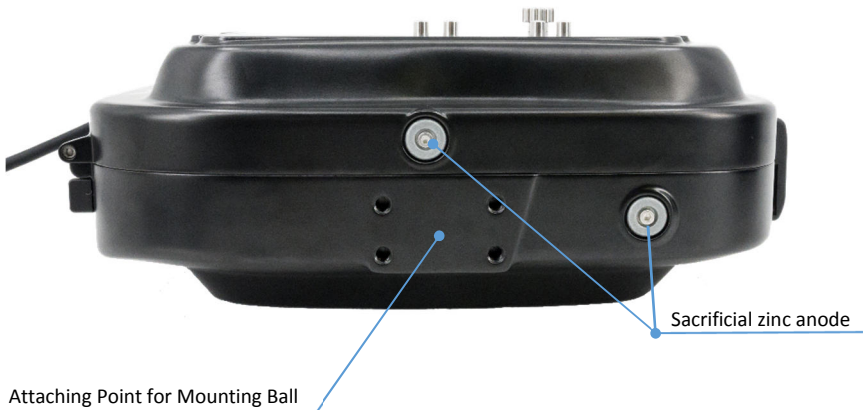


## IDENTIFICATION OF PARTS









## OPENING AND LOCKING THE HOUSING

To open the housing:



1. Press the housing lock safety button.



2. Turn the housing lock 270°, counter clockwise, 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.

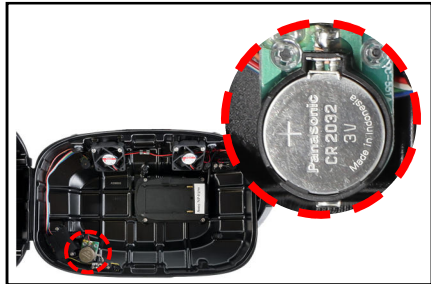


4. Turn the housing lock 270° clockwise until the lock reaches the “lock” position as shown. Confirm that the white indicator line on the safety button is visible.

## PREPARATION OF THE HOUSING

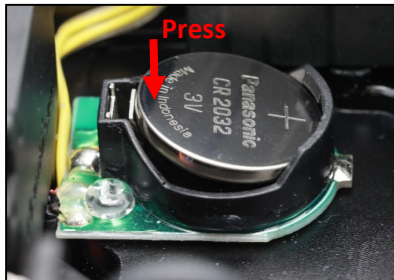
1. After verifying that the main O-ring is in good condition, lightly coat it with the lubricant provided.
2. Make sure the O-ring groove located in the front part of the housing is free from any foreign material; the groove can be cleaned with the aid of a microfiber cloth.
3. Place the main O-ring into the groove, first at the corners, then the whole perimeter.

4. Setting up the moisture alarm:

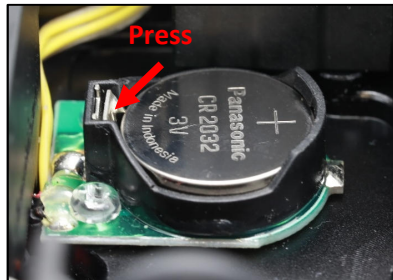


1. Ensure that remove an insulation film before install a battery. Then install the battery provided into the battery compartment on the circuit board inside the housing.

### Battery Installation:



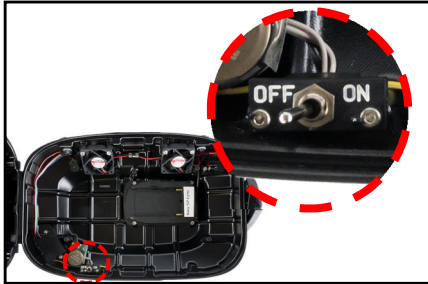
Insert the battery as shown above and then press down the battery.



To remove the battery, press the metal plate as indicated and the battery will pop out.

*\*Use only recommended battery with this product*





2. Switch the alarm on. The LED light will flash blue once and turn blue for five seconds indicating the battery is normal. Then it goes into flashing blue light standby mode.



3. Test the alarm by connecting the two wires near the bottom of the housing with a damp 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 damp cotton bud.

### Vacuum valve:

Vacuum valve is pre-install to the housing for conducting a vacuum seal test. Please refer to the manual of the vacuum valve for details of the operation.

### LED status identification:

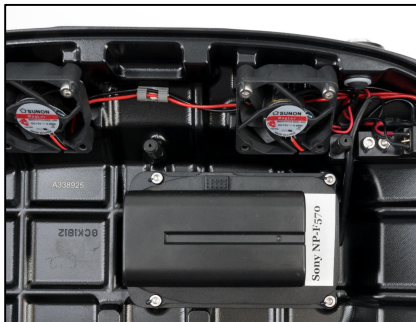
On start up

<b><i>LED indicator</i></b>	<b><i>Status</i></b>
Flash "Blue" light once	Indicates a 2nd generation PCB
Steady "Blue" light	Battery is normal, goes into flashing "Blue" light standby mode after 5 seconds.
"Blue" and "Red" lights alternating	Battery low. Replace battery as soon as possible. Goes into standby mode after 5 seconds.
Steady "Red" light	Battery empty, replace battery.

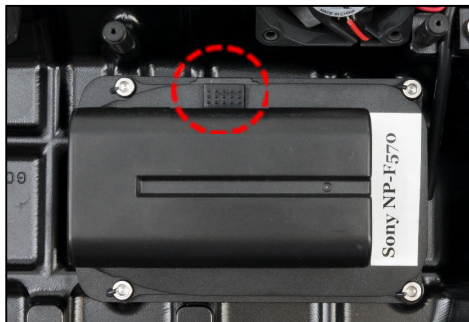
## After start up

<b>LED indicator</b>	<b>Status</b>
Flashing "Blue" light	Standby mode. The moisture alarm is active, and the system is ready for vacuum indication whenever a vacuum is detected.
Flashing "Red" light with beeping sound	Moisture is detected.
Flashing "Yellow" light	Some vacuum is detected, target vacuum level is not reached.
Steady "Green" light	Target vacuum level is reached.
Rapidly flash "Yellow" light	Vacuum is dropping. (Will occur only after target vacuum level is reached)
Rapidly flashing "Red" light	Vacuum is totally lost. Circuit stalled until switched off. (Will occur only after target vacuum level is reached)

## 5. Setting up fans:



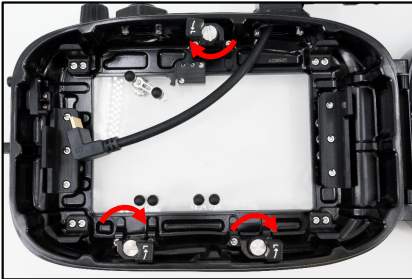
1. Then install Sony NP-F570 battery into the battery compartment on the housing.



2. To remove the battery, press the square button as indicated.

## INSTALLING THE MONITOR

To install the monitor into to the housing:



1. Turn the three locking levers in the direction as shown.



2. Connect the HDMI cable with "L" connector to the monitor's HDMI IN socket as shown above or HD-SDI cable to the monitor's SDI IN socket.



3. Place the monitor inside the housing and secure the monitor by turning the three locking levers towards the monitor as shown.

## CONNECTING TO THE CAMERA HOUSING

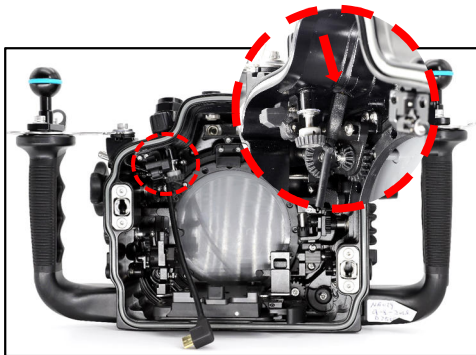
For installing the standard HDMI bulkhead with M16 thread or M16 SDI bulkhead:



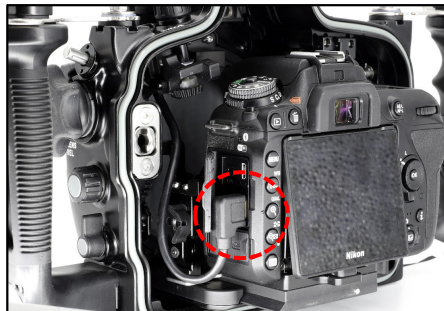
1. Unscrew the M16 plug from the threaded hole with a coin.



2. Tighten the HDMI or HD-SDI bulkhead with a spanner.



3. Connect the HDMI /HD-SDI cable to the HDMI /HD-SDI bulkhead.



4. Connect the HDMI / HD-SDI cable to the camera's HDMI / HD-SDI socket.



For installing the custom HDMI bulkhead to use with extension:



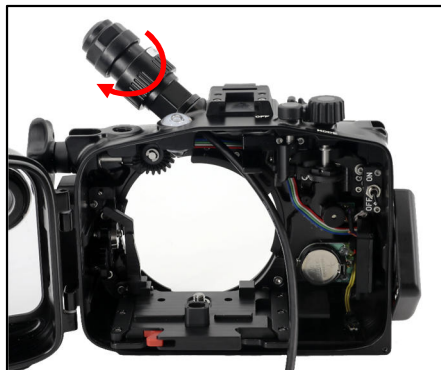
1. Unscrew the M16 plug from the accessory port with a coin.



2. Tighten the socket extension to the camera housing with a spanner.



3. Insert the HDMI cable through the threaded hole from inside of the housing, and connect the HDMI cable to the HDMI bulkhead.



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

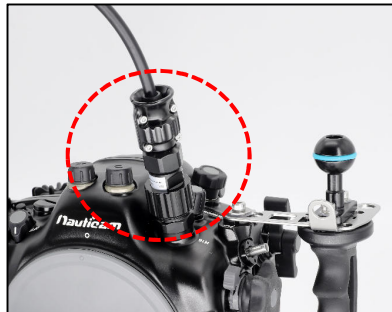


5. Connect the HDMI cable to the camera's HDMI connector.

To connect the monitor housing to HDMI / SDI bulkhead:



1. Unscrew the cap off the HDMI /SDI bulkhead.



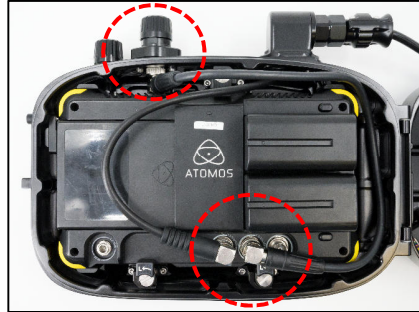
2. Unscrew the cap off the HDMI /HD-SDI cable, and Align and plug the HDMI /HD-SDI cable in the HDMI /HD-SDI bulkhead. Tighten the connection by turning the threaded ring on the HDMI /HD-SDI cable

## OPTIONAL: SDI OUTPUT TO SURFACE MONITOR

Nauticam Atomos Flame Housing (with SDI input) features SDI Pass-through, and HDMI to HD-SDI cross convert, which allow a video signal to be sent topside to a director's monitor.



1. Attach and Tighten the M16 SDI bulkhead with a spanner on the housing.



2. Connect the SDI cable to the SDI bulkhead and to the monitor SDI-out socket, and connect SDI input cable to the monitor SDI-IN socket

## CARE AND MAINTENANCE

- 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.
- Carefully press the housing lock safety button for a few times to avoid the accumulation of salt residue.
- 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.
- Replace the main O-ring annually. It is recommended that you ship the housing to our distributor for a complete overhaul every year or after every 200 dives.

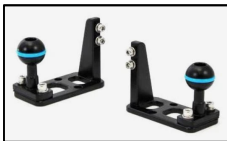
## OPTIONAL ACCESSORIES

### - Mounting System



P.N. 17951

Nauticam Atomos Shogun  
housing mounting system



P.N. 17952

Nauticam Atomos Shogun  
housing mounting adaptor for  
NA-A7S/A7II/A9



P.N. 17953

Nauticam Atomos Shogun  
housing mounting adaptor for  
NA-GH4/GH5S/V



P.N. 17954

Tripod plate for NA-  
A7S/GH4/A7II/GH5/A9

IMAGE COMING SOON

*Nauticam*  
Innovation underwater

P.N. 17955

Mounting ball for NA-  
Shogun/Flame housing



P.N. 16226

Mounting Brackets for  
Shogun/Flame on Epic LT  
Housing



P.N. 17919

Monitor Hood for Nauticam  
Atomos /Shogun/Flame  
Housing

## - HDMI 1.4 Input



P.N. 25033  
Standard HDMI bulkhead  
with M16 thread



P.N. 25075  
HDMI (D-A) Cable in 190mm Length for  
NA-GH5/G9 (for internal connection from  
HDMI bulkhead to camera)



P.N. 16243  
HDMI A-D Cable in 0.5m Length  
for RED DSMC2/C200/EVA1  
(Internal Cable)

## - HDMI 2.0 Input



P.N. 25077  
M24D1R205-M28A1R170 HDMI 2.0  
Cable (for NA-T3 to use with Ninja V  
housing)



P.N. 25078  
M28A1R225-M28A1R170 HDMI 2.0  
Cable (for NA-BMPCCII/S1R to use with  
Ninja V housing)



P.N. 25079  
M28A2R210-M28A1R170 HDMI  
2.0 Cable (for NA-GH5V to use with  
Ninja V housing)





P.N. 25084

M24D1R270-M28A1R170 HDMI 2.0  
Cable (for NA-EM1X to use with Ninja V  
housing)



P.N. 25085

M28C1R200-M28A1R170 HDMI 2.0  
Cable (for NA-27V to use with Ninja V  
housing)

## - SDI Output



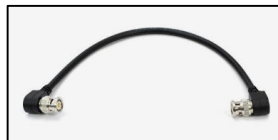
P.N. 25058

M16 SDI bulkhead



P.N. 25059

SDI cable extension adaptor



P.N. 25060

SDI cable in 0.4m length



P.N. 25064 / 25065

SDI surface monitor cable in 15m/45m length (for connection from SDI Bulkhead to Surface Monitor on land)



P.N. 25062/25063

SDI cable in 5m/30m length (for connection between SDI Bulkheads)



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