

NA - EM5III 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.

The product photos in this manual may differ from the actual product.

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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. 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.

PRECAUTIONS

- 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).
- 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.

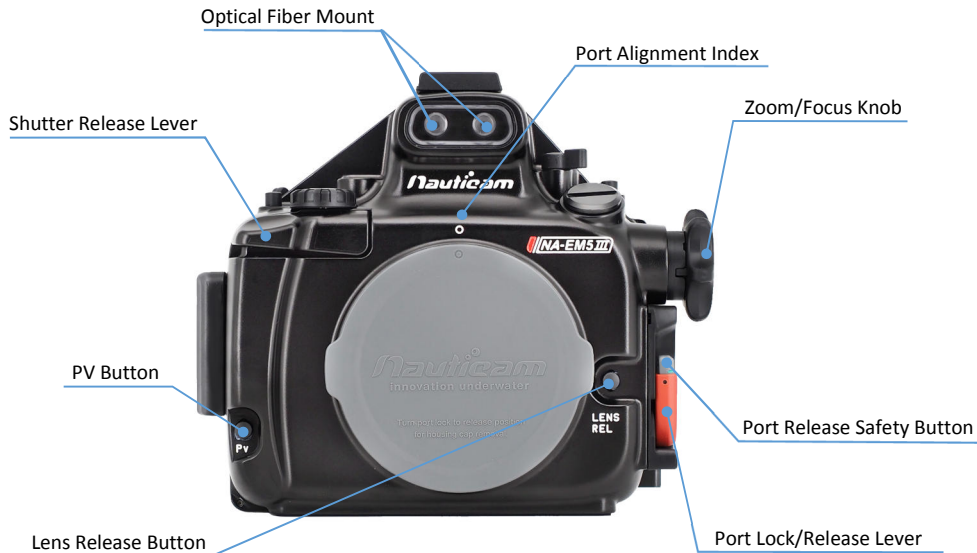
PACKAGE CONTENTS

- NA-EM5III Housing
- 90139 Spare Silicone Rubber O-ring for Housing
- 2x Optical Fiber Mount Covers (Pre-attached)
- Set of Handle Brackets with Shutter Release Extension
- Housing Cap
- Panasonic CR2032 Battery
- O-ring Remover
- Lubricant
- Set of Allen Keys
- Manual Instruction Card

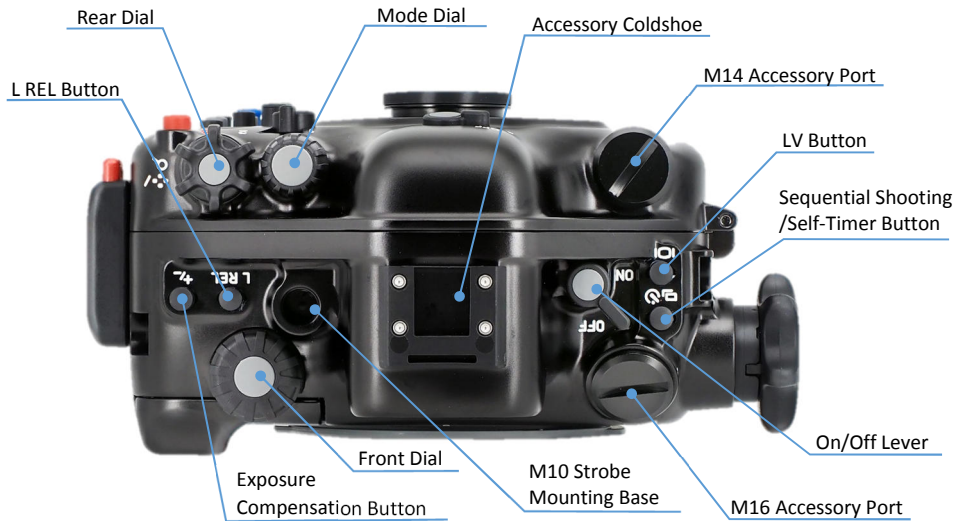
SPECIFICATIONS

Construction	Housing Body:	Aluminum Alloy
	Surface Treatment:	Hard Anodized
	Display Window:	Abrasion Resistant Polycarbonate
Dimensions	Width:	196mm
	Height:	166mm
	Depth:	99mm
Weight in Air	Approx. 1.4kg	
Weight in Water	0.18kg (Includes Camera and Battery)	
Depth Rating	100 meters	
Port Mount	N85	
Compatible Cameras	Olympus OM-D E-M5 III camera	

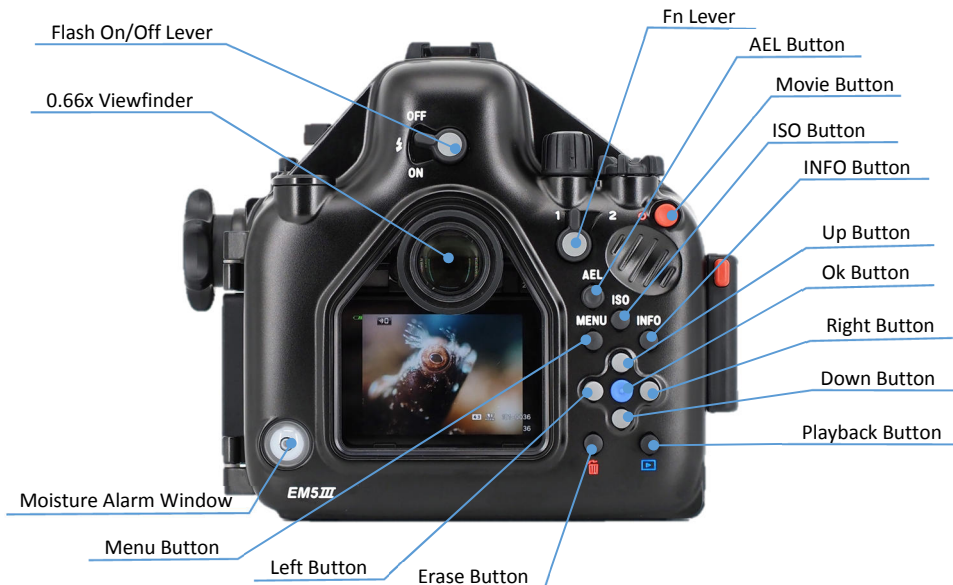
IDENTIFICATION OF PARTS



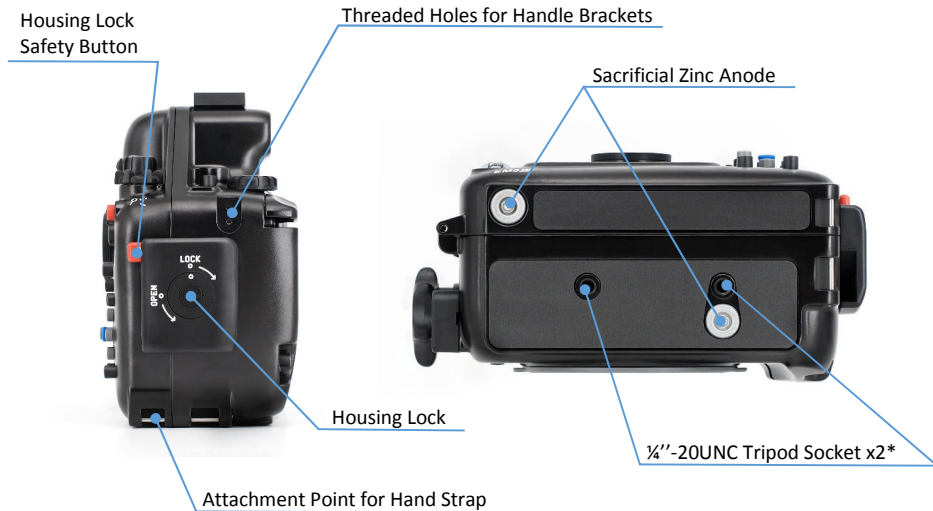
**Handle brackets and Shutter release extension are not displayed.*



**Handle brackets and Shutter release extension are not displayed.*



**Handle brackets and Shutter release extension are not displayed.*



**The maximum length of screws that can be used with tripod sockets is 4mm.*

OPENING AND LOCKING THE HOUSING

To open the housing:



1. Press the housing lock safety button.



2. Turn the housing lock clockwise for 270°, until the lock reaches the "Open" position as shown.

To lock the housing:



1. Close the housing while the housing is in the "Open" position.

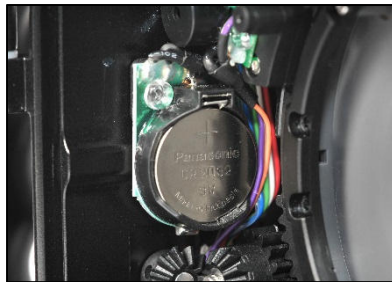


2. Turn the housing lock counterclockwise for 270°, until the lock reaches the "lock" position as shown. Confirm that the white indicator line on the safety button is visible.

PREPARATION OF THE HOUSING

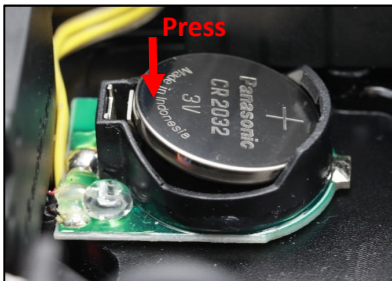
1. After verifying that the main O-ring is in good condition, lightly coat it with the lubricant provided.
2. Make sure the O-ring groove located in the front part of the housing is free from any foreign material; the groove can be cleaned with the aid of a microfiber cloth.
3. Place the main O-ring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

4. Setting up the moisture alarm:

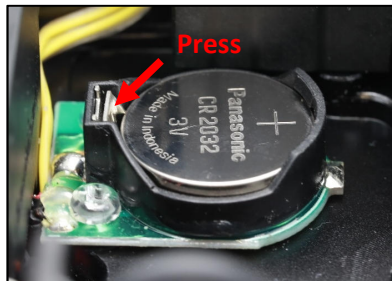


1. Ensure removal of the insulation film before installing a battery. Then install the battery provided into the battery compartment on the circuit board inside the housing.

Battery Installation:

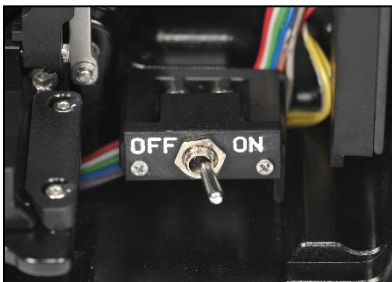


Insert the battery as shown above and then press down the battery.



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.

Optional vacuum valve:

Vacuum valve can be attached to the housing via one of the accessory port 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

<i>LED indicator</i>	<i>Status</i>
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.

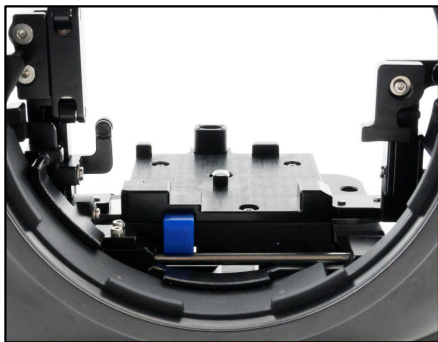
After start up

<i>LED indicator</i>	<i>Status</i>
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)

INSTALLING THE CAMERA

It is required to reset the vacuum system when the vacuum level is dropped from target level to totally lost. i.e. when opening the housing or changing port.

To reset when changing port/lens:

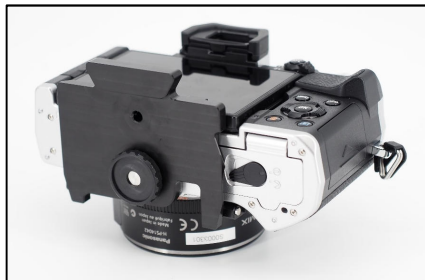


1. Release vacuum.
2. Remove the port and lens from the housing and camera.
3. Press the BLUE button once to reset the system. The LED light will turn blue for five seconds then it goes into flashing blue light standby mode.

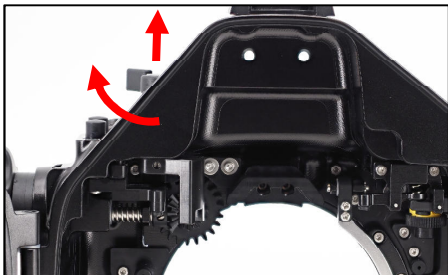
To install the camera into the housing:



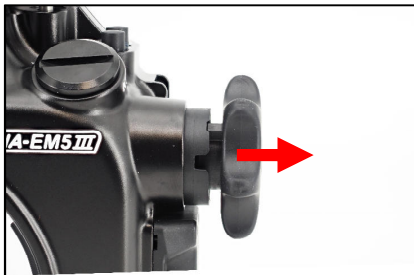
1. Turn the locking lever on the tray of the housing to the “open” position as shown. Then remove the camera saddle from the housing by sliding it outwards.



2. Attach the saddle to the camera by tightening the screw to the tripod socket of the camera.



3. Lift and outwards the On/Off lever as show above.



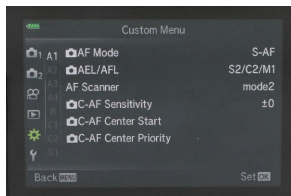
4. If installing the camera with lens and gear attached, first pull out the zoom/focus knob and sit on the shallower groove as shown.



5. Mount the camera by sliding the attached saddle along the rail in the housing until it cannot go in any further.
6. Lock the camera into place by turning the locking lever to the “lock” position as shown. Confirm that all the controls of the housing are correctly engaged.

SWITCHING BETWEEN VIEWFINDER AND MONITOR

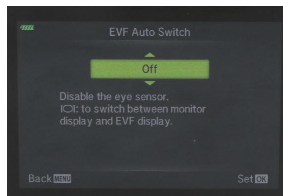
1. By setting the "EVF Auto Switch" function of the EM-5III camera to **Off**, allows switching between monitor display and EVF display by pressing the LV button.



Go to 'Custom Menu'



'EVF Auto Switch' in I group



Turn off the 'EVF Auto Switch'

To disable this function, press and hold the LV button for a few seconds, the "EVF Auto Switch" menu will pop-up. Select "Off" and press OK.

MOUNTING THE PORT

Please refer to the NAUTICAM port chart system for a range of compatible ports:

1. 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.
2. Verify that the port opening of the housing is clean and free from foreign material.



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



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



5. Then, remove the housing cap.



6. Align the Port mounting index of the port and the housing.
7. Gently push the port into the port opening of the housing, until it cannot go in any further.

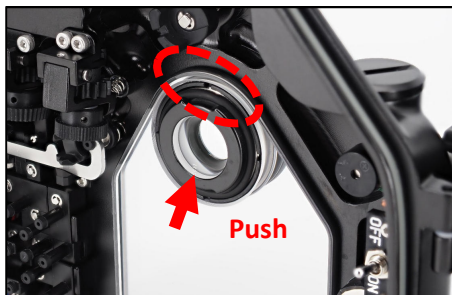


8. Lock the port into place by turning the port locking lever to the inward position. To ensure that the port is securely mounted, confirm that the green line on the safety button of the port locking lever is visible.

CHANGING THE VIEWFINDER

In order that user can change to a preferred viewfinder easily, the 0.66x viewfinder which comes with the housing is designed so that it can be removed and re-installed by the following simple steps described below.

To remove the viewfinder:



1. Remove the retainer O-ring of the viewfinder inside the rear half of the housing by making use of the recess on the viewfinder.
2. Gently push the viewfinder form the inside of the housing.

To re-install the viewfinder:

Lightly coat the O-rings on the outer periphery of the viewfinder body with lubricant.



1. Align the viewfinder with the sleeve in the display window.



2. Push the viewfinder from the outside of the housing until it cannot go in any further.
3. Place the retainer O-ring of the viewfinder back from inside of the housing.

CONNECTING HDMI CABLE



By adding the optional M16 Extension ring, 25028 Socket Extension and 25032 Custom HDMI bulkhead, the NA-EM5III is compatible with external monitor housings, such as, the NA-502H/B-H.

Please note that HDMI cable need to be pre-connected before the camera mount on the housing.

The required HDMI cables and bulkhead are included in the monitor housing package.

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

For Light Mounting Systems,



P.N. 71206
Easitray II with left handle
(with 2pcs ¼" screws)



P.N. 71207
Flexitray II with left handle
(with 2pcs ¼" screws)



P.N. 71208
Adjustable right handle II
(for Easitray II & Flexitray II)



P.N. 36316
Hand strap
for Mirrorless IL camera & compact
camera housing (Standard)



P.N. 25221
M10 strobe mounting ball
for housing

For Wet Optics



P.N. 83203

Wet Wide Lens Compact (WWL-C)
130 Deg. FOV with Compatible 24mm
Lenses (incl. float collar)



P.N. 83201

Wet Wide Lens 1 (WWL-1)
130 deg. FOV with Compatible
28mm Lenses



P.N. 86201

Macro to Wideangle Lens 1
(MWL-1) 150 deg. FOV with full
frame 60mm macro lens



P.N. 81301

Compact Macro Converter 1
(CMC-1, 4.5X Magnification)



P.N. 81302

Compact Macro Converter 2
(CMC-2, 2.8X Magnification)

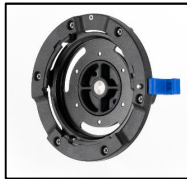


P.N. 83214

Bayonet Mount Adaptor for
SMC/CMC



P.N. 83250/83251
M67/M77 to Bayonet Converter II



P.N. 83252/83253
Bayonet Holder for Arms
/ Double Bayonet Holder for Arms



P.N. 72233/72234
Single/Double Bayonet Holder II
for Ø70 Float Arm

For External Monitors

All the needed cables and bulkheads are included in the monitor housing.



P.N. 17906/17907
NA-502H housing
for Small HD 502 5-inch HD monitor
with HDMI 1.4 input support



P.N. 17920/17921
NA-502B-H Housing
for SmallHD 502 Bright Monitor with
HDMI 1.4 input support

HDMI Output with V 1.4 Cable System



P.N. 25028

Socket extension for 25032 HDMI
bulkhead with M16 thread



P.N. 25032

Custom HDMI bulkhead to use with
socket extension



P.N. 25076

HDMI (D-D) Cable in 200mm Length
(for internal connection from HDMI bulkhead
to camera)

Others



P.N. 25624

M14 Vacuum Valve II
(Pushbutton Release)



P.N. 32204

Nauticam 180° straight viewfinder
for MIL housings



P.N. 32205

Nauticam 45° viewfinder for MIL
housings



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