

NA - G7XIII
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 illustrations 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-G7XIII Housing
- N50 Standard Port with Cap
- 2x Handles Brackets
- 2x Optical Bulkhead Plugs
- Shutter Release Extension
- 90135 Spare Silicone Rubber O-ring for Housing
- O-ring Remover
- CR2032 Battery
- Lubricant
- Set of Allen Keys
- Manual Instruction Card

INCLUDED IN 17330P:

- Flexitray
- M14 Vacuum Valve
- Shoulder Strap
- Right Handle
- Vacuum Pump
- Two Mounting Balls
- Padded Travel Bag

SPECIFICATIONS

Construction	Housing body:	Aluminum alloy
	Surface treatment:	Hard anodized
	Display window:	Abrasion resistant polycarbonate
Dimensions	Width:	155mm (w/o handles)
	Height:	103mm
	Depth:	111mm
Weight in air	Approx. 0.95kg	
Weight in water	-0.05kg	
Depth rating	100 m	
Port mount	N50	
Compatible cameras	Canon PowerShot G7X Mark III Camera	

IDENTIFICATION OF PARTS

Shutter Release Lever

Front Control Wheel



Optical Fiber Mount

N50 Standard Port

Port Release Safety Button

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

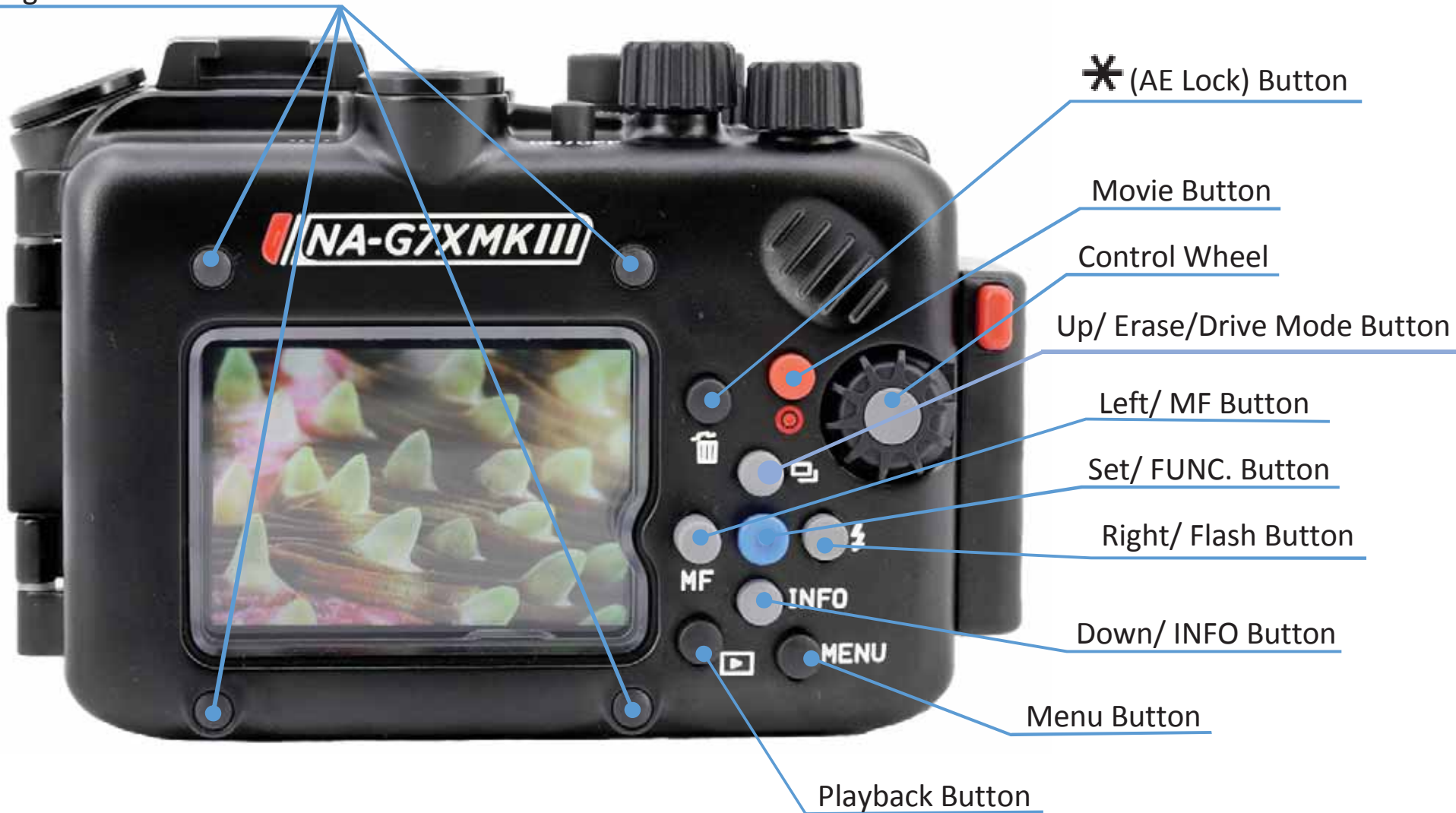


**Handle brackets and Shutter release extension are not displayed.*



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Mounting Holes for
LCD Magnifier Attachment Rails



* (AE Lock) Button

Movie Button

Control Wheel

Up/ Erase/Drive Mode Button

Left/ MF Button

Set/ FUNC. Button

Right/ Flash Button

Down/ INFO Button

Menu Button

Playback Button

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°, 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 clockwise 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

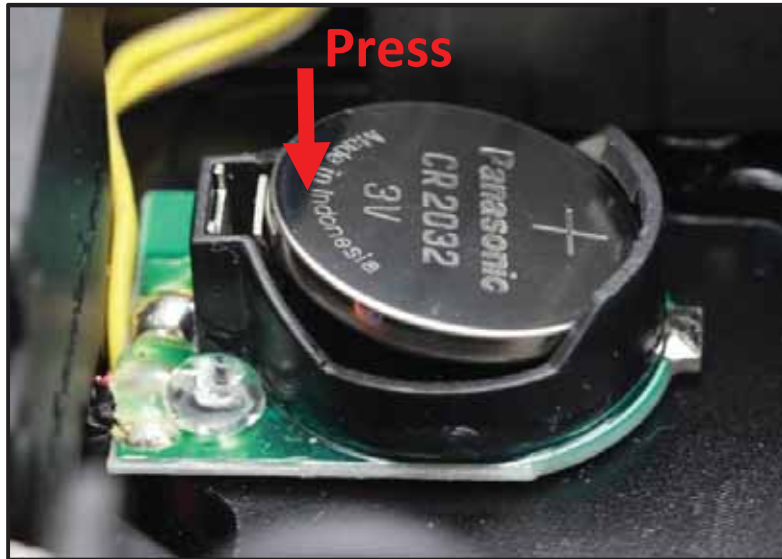
1. After verifying that the main O-ring is in good condition, lightly coat it with the lubricant provided.
2. Make sure the O-ring groove located in the front part of the housing is free from any foreign material; the groove can be cleaned with the aid of a microfiber cloth.
3. Place the main O-ring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

4. Setting up the moisture alarm:

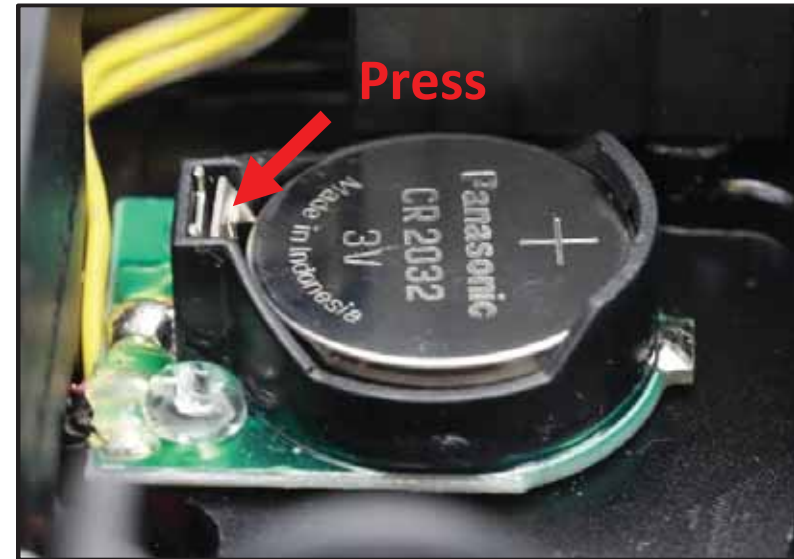


1. Ensure removal of the insulation film before installing a battery. Then install the battery provided into the battery compartment on the circuit board inside the housing.

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

LED indicator	Status
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

LED indicator	Status
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

To install the camera into to the housing



1. Place the camera inside the housing as shown.
Due to space limitation, the pop-up flash needs to be in up position before connecting with the internal HDMI cable.
 - Flash up lever is disabled when using an external monitor
2. Confirm that all the controls of the housing are correctly engaged.

CHANGING THE PORT

Three optional ports are available for different styles of photography.

- **38701 N50 Short Port with M67 thread for wet wide-angle lenses (widest focal length only)**
- **38702 N50 3.5" Acrylic Dome Port**
An acrylic dome port that restore the lens field of view underwater
- **38703 N50 Short Port with Bayonet Mount (To use with WWL-1)**

To avoid the camera lock-up and power down, please set the recommended zoom range (24mm-50mm) to use with 38701 N50 Short Port with M67 thread for WWL-1, or 38703 N50 Short Port with Bayonet Mount.

To remove Port



1. Press and hold the red port lock safety button to unlock



2. While holding the red port lock safety button, turn the port counter clockwise until the 'l' mark on the port aligns with the 'o' mark on the housing. Then gently pull the port out

To mount Port



3. Align the 'I' mark on the port with the 'o' mark on the housing.
4. Gently push the port towards the housing until it cannot go any further.



5. Turn the port clockwise until the 'o' mark on the port aligns with the 'o' mark on the housing.

CONNECTING HDMI CABLE



By adding the optional 25028 Socket Extension and 25032 Custom HDMI bulkhead, the NA-NA-G7XIII is compatible with external monitor housings, such as the NA-502B-H or NA-Ninja V (HDMI 1.4 connection only).

The socket extension will be provided for free to use with external monitor housings under request.

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



P.N. 25123

LCD Magnifier attachment rails
for NA-S110/S120/TG3/G7X/G7XII/TG5/G7XIII



P.N. 25106

LCD Magnifier with Dioptric
Adjustment



P.N. 38022

Diffuser
for NA-G7X/G7XII/G7XIII housing



P.N. 38702

N50 3.5" Acrylic Wide-Angle
Dome Port



P.N. 38703

N50 Short Port with Bayonet
Mount (To use with WWL-1)
*(*zoom range 24-mm)*

24
Valve II
(lease)



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. 83201
Wet Wide Lens 1 (WWL-1) 130 deg.
FOV with compatible 28mm Lenses



P.N. 83214
Bayonet Mount Adaptor for
SMC/CMC



P.N. 81301

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



P.N. 81302

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

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)

For HDMI Connection,



P.N. 25028

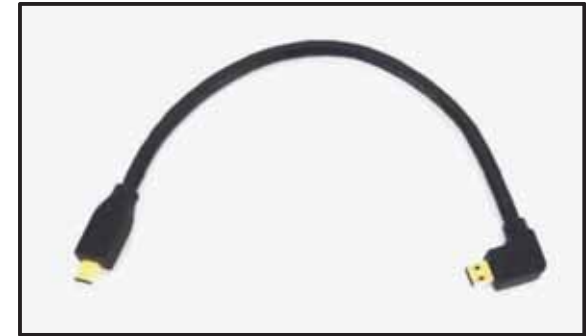
Socket extension

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)



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