

Nauticam
innovation underwater

NA - LX100II

Instruction manual



Part Number : 17717

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.

WARRANTY

Warranty	4
Precautions	5
Package Contents	7
Specifications	8
Identification of Parts	9
Opening and Locking the Housing	14
Preparation of the Housing	15
Installing Camera	20
Changing the Port	22
Installing Handle Brackets and Shutter Release Extension	24
Care and Maintenance	27
Optional Accessories	28

WARRANTY

All NAUTICAM Products are warranted against any material and manufacturing defects for two years from the date of purchase for consumer use. Please fill in the warranty cards shipped with our housings and viewfinders at the time of sale and return them to your point of purchase within a month. If we do not receive the completed warranty card for a particular product, the warranty period would be assumed to begin 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.

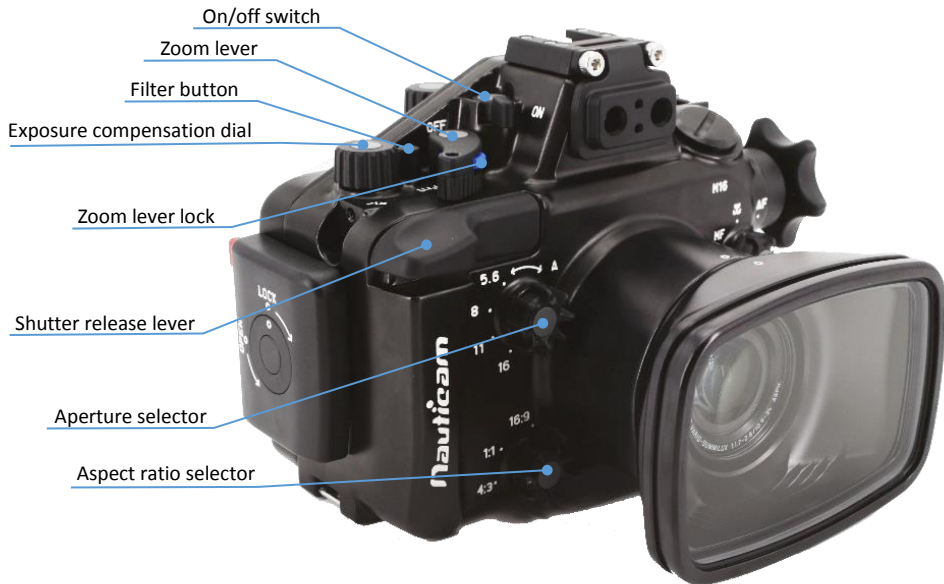
PACKAGE CONTENTS

- NA-LX100II housing with N50 Standard Port
- Handle Brackets and Shutter Release Extension
- 90131 Spare silicone rubber O-ring for housing
- O-ring remover
- CR2032 battery
- Lubricant
- Set of Allen keys
- Instruction manual

SPECIFICATIONS

Construction	Housing body:	Aluminum alloy
	Surface treatment:	Hard anodized
	Display window:	Abrasion resistant polycarbonate
Dimensions	Width:	180mm
	Height:	128mm
	Depth:	144mm
Weight	Approx. 1.20kg	
Buoyancy	Slightly negative	
Depth rating	100 m	
Port mount	N50	
Compatible cameras	Panasonic Camera	

IDENTIFICATION OF PARTS





Shutter speed dial

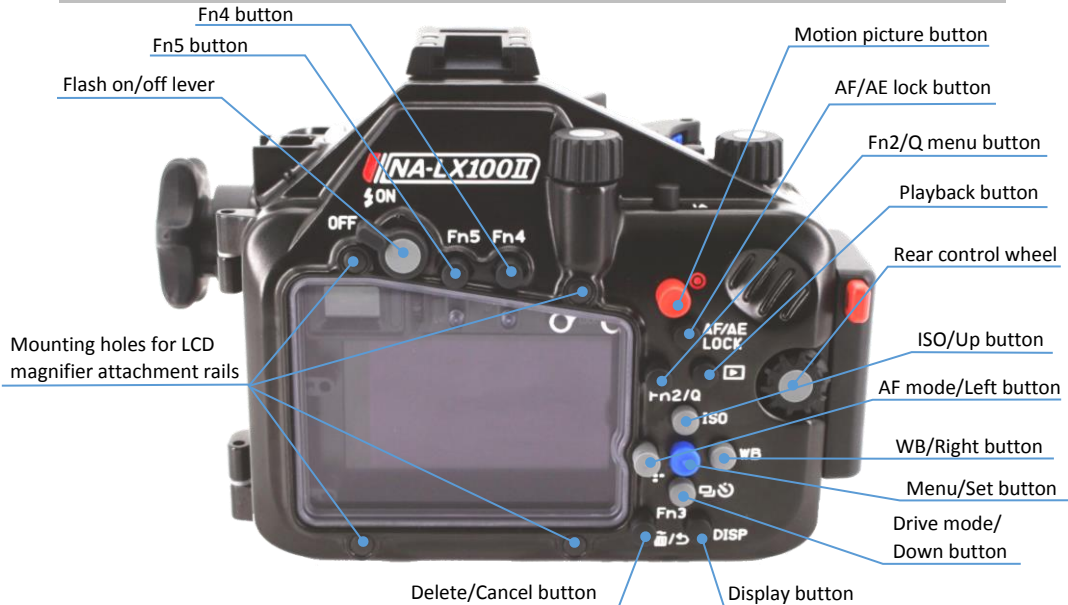
IA button

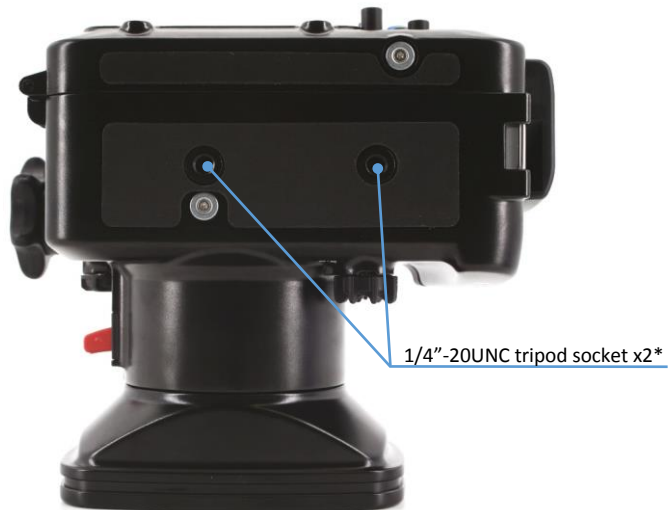
Mounting holes for
hand strap/handle brackets

Housing lock
safety button

Housing lock







**The maximum length of screws that can be used with the 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 counter clockwise for 270° until the lock reaches the 'open' position as shown

To lock the housing



1. Close the housing while the housing lock 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

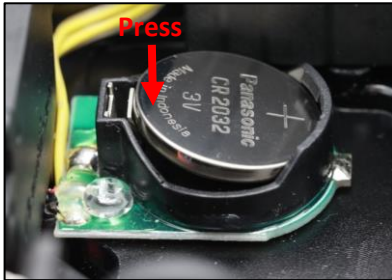
1. After verifying that the main O-ring is in good condition, lightly coat it with the lubricant provided.
2. Make sure the O-ring groove located in the front part of the housing is free from any foreign material; the groove can be cleaned with the aid of a microfiber cloth.
3. Place the main O-ring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

4. Setting up the moisture alarm:

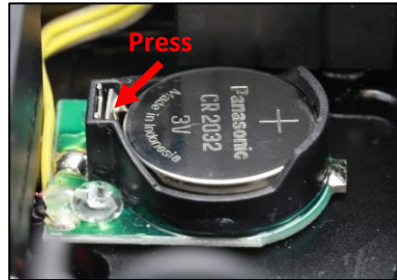


1. Locate and install the CR2032 battery provided into the battery compartment on the circuit board inside the housing.

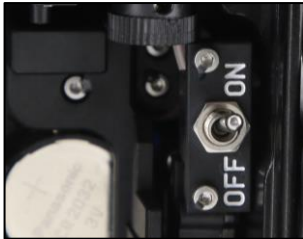
Battery Installation:



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.



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

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 CAMERA



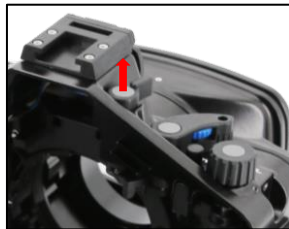
1. Adjust the aperture selector to '16' and aspect ratio selector to '4:3'



2. Set the AF mode selector to 'AF'.



3. Pull out the front control ring knob and sit on the shallower groove as shown



4. Pull the ON/OFF lever up



5. Make sure the aperture, aspect ratio and focus mode are with the same setting as follow: f/16, 4:3 and AF respectively. Attach the mini flash and then place the camera inside the housing



6. Return the knob back to the deeper groove to engage with the camera's control ring



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

CHANGING THE PORT

Three optional ports are available for different styles of photography.

-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)

A shorter port with bayonet mount to use with WWL-1

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 'I' mark on the port aligns with the 'o' mark on the housing. Then gently pull the port out

To mount Port



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

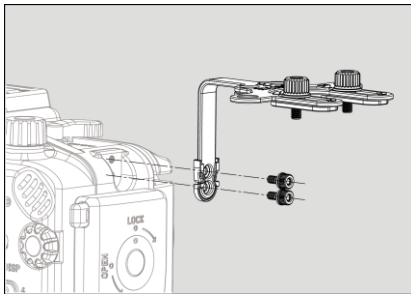


5. Turn the port clockwise until the 'o' mark on the port aligns with the 'o' mark on the housing.

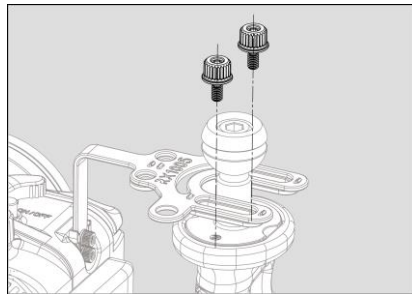
INSTALLING HANDLE BRACKETS AND SHUTTER RELEASE EXTENSION

A pair of handle brackets is supplied with the housing for use with optional Easitray (#71206) or Flexitray (#71207) with right handle (#71208), providing additional stability. Strobe mounting balls (#71311) are required.

To install the handle brackets:



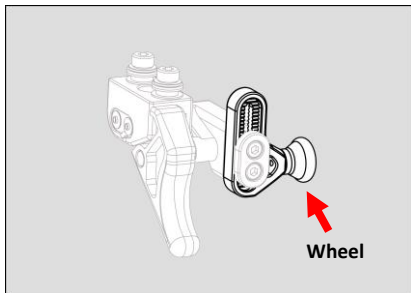
1. Locate the mounting holes on the side of the housing and install the handle bracket to the housing as shown. Remove the retaining nuts before mounting the bracket.



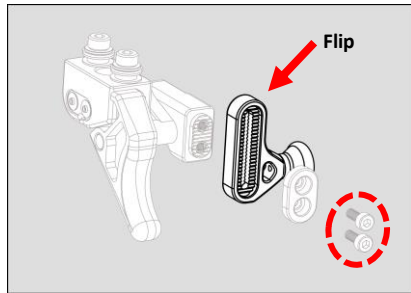
2. Attach the tray to the housing and align the bracket to the threaded holes of 71311. Adjust the position of the handle if needed.

The Shutter release extension provides easy shutter release access from the handle grip for users with big hand, or thick dry suit gloves who prefer shooting from a handle.

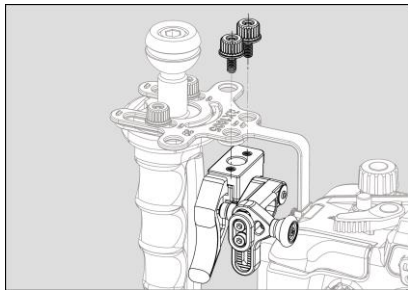
To install the shutter release extension:



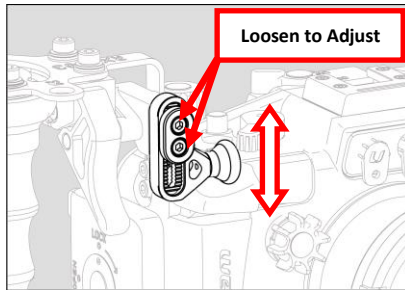
1. Confirm that the wheel is located at the bottom as shown above.



2. The position of the wheel can be switched by removing the two screws as indicated and flip the wheel assembly to the preferred position.



3. Mount the shutter release extension onto the right handle bracket as shown.



4. Loosen the two screws as shown until the wheel assembly can freely move vertically. Adjust the position of the wheel so that it touches on the housing shutter release lever and tighten.

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. 25625
M16 Vacuum Value II
(Pushbutton Release)



P.N. 25132
LCD Magnifier Attachment Rails
for NA-LX100/LX100II



P.N. 25106
LCD Magnifier with Dioptic
Adjustment



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)



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



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. 25107
M67 Flip Diopter Holder to
mount CMC-1/CMC-2



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)



NAUTICAM International Limited

**Rm2203, CCT Telecom Building,
11 Wo Shing Street, Fotan,
HONG KONG**

**Web: www.nauticam.com
E-mail: enquiry@nauticam.com
Tel: +852 2690 2711
Fax: +852 2690 9778**

