

Nauticam
innovation underwater

NA - Z7V
Instruction manual



Part Number:17223V

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.

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- 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.

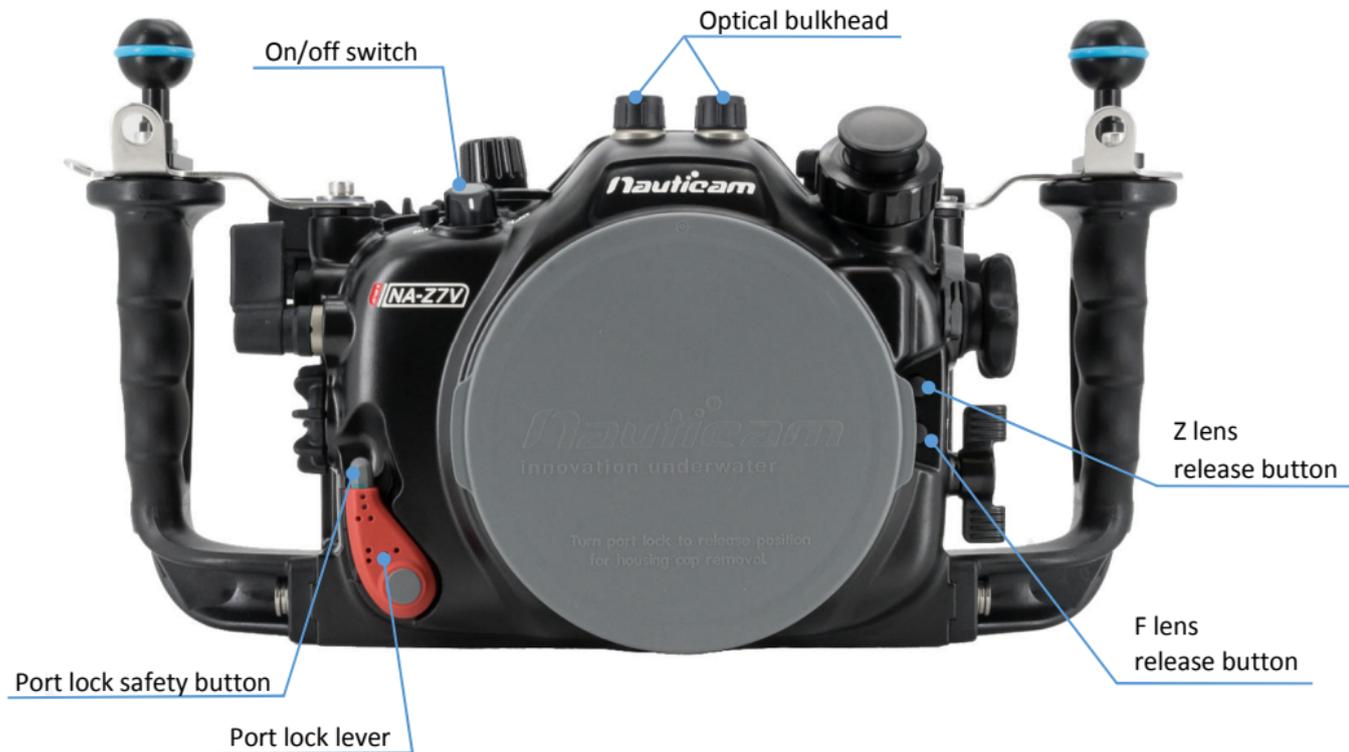
PACKAGE CONTENTS

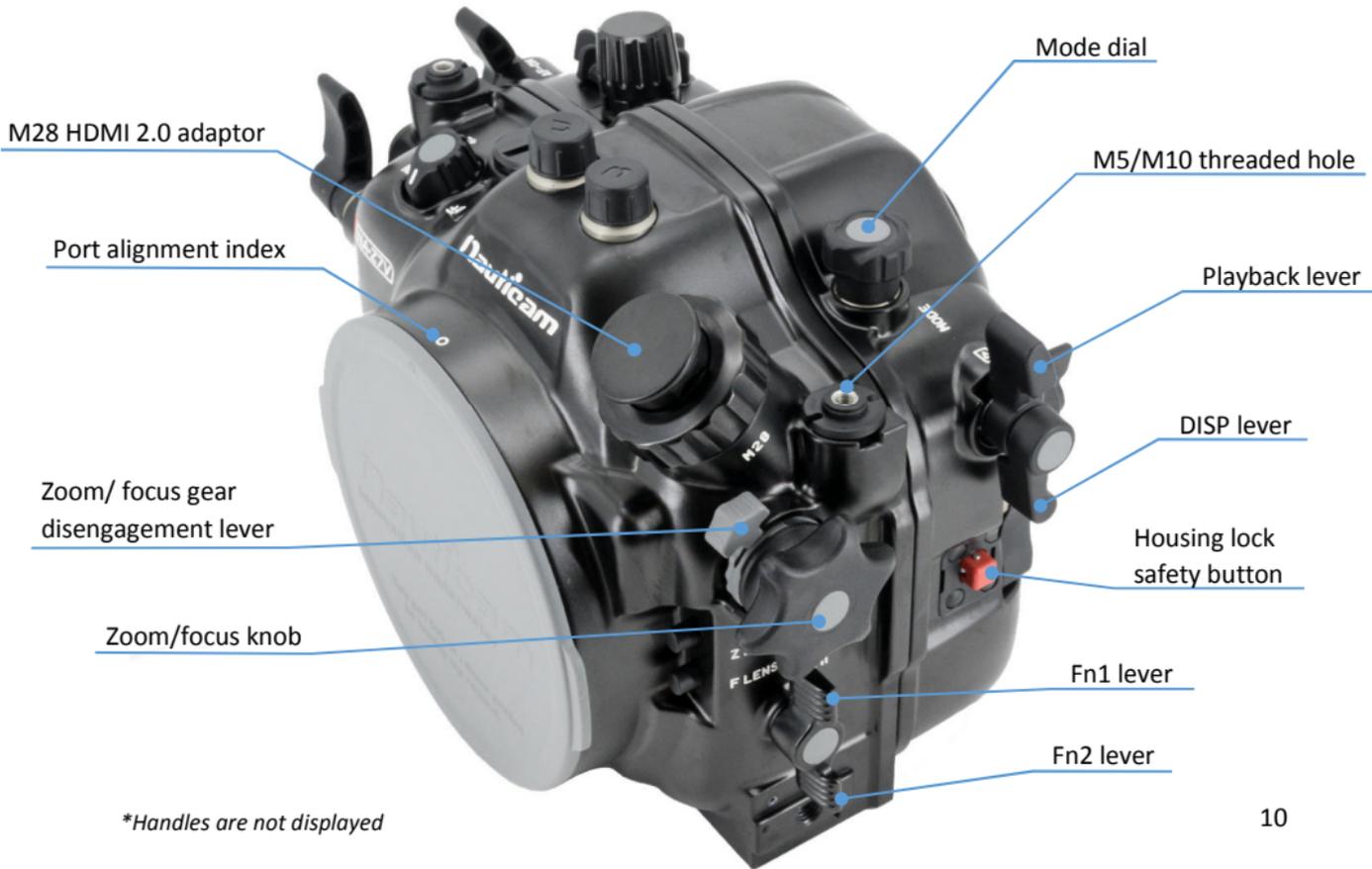
- NA-Z7V housing
- M16 Vacuum Valve II (Pushbutton Release)
- M28 HDMI 2.0 Adaptor (Pre-installed)
- Spare Silicone Rubber O-ring for Housing
- O-ring Remover
- CR2032 Battery
- Lubricant
- Set of Allen Keys
- Manual Instruction Card

SPECIFICATIONS

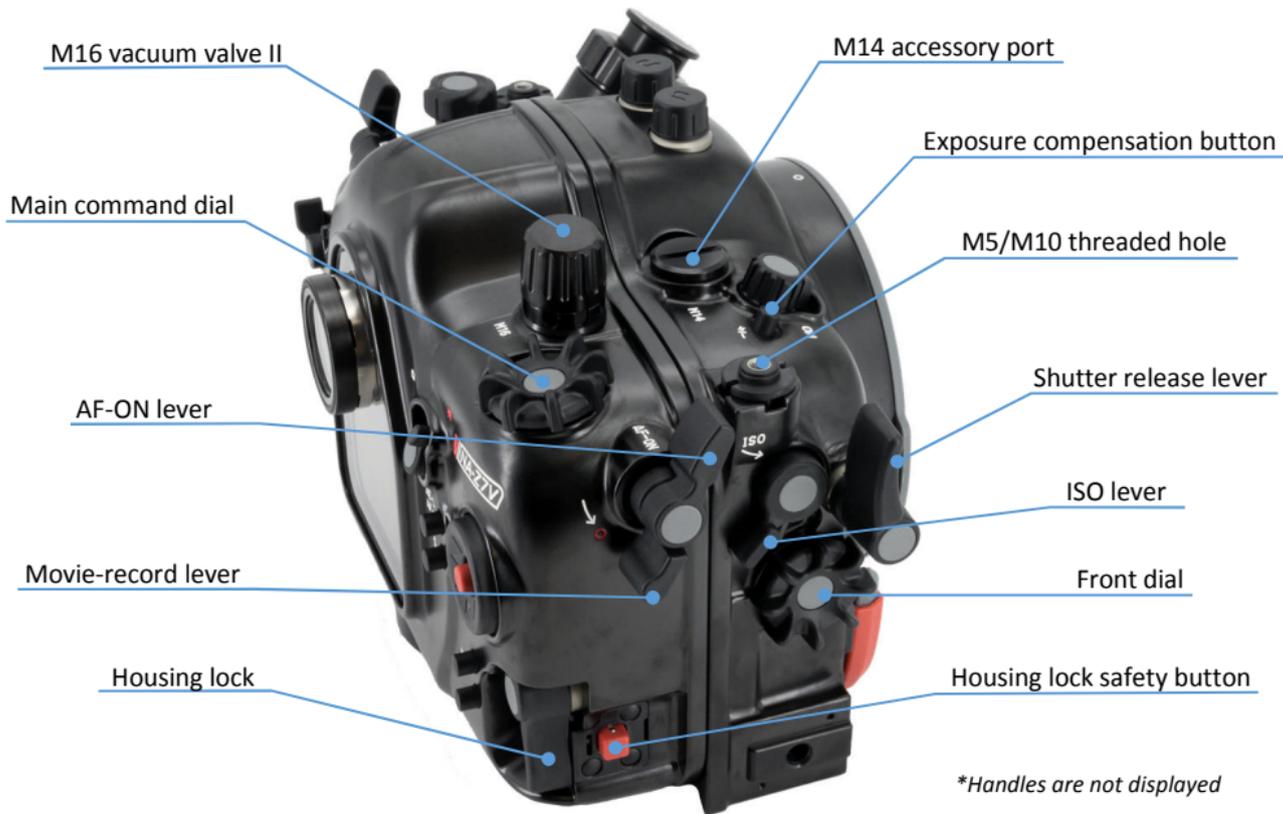
Construction	Housing body:	Aluminum alloy
	Surface treatment:	Hard anodized
	Display window:	Abrasion resistant polycarbonate
Dimensions	Width:	360mm
	Height:	200mm
	Depth:	160mm
Weight	Approx. 3.02kg	
Buoyancy	Slightly negative	
Depth rating	100 m	
Port mount	N120	
Compatible cameras	Nikon Z6/Z7 Camera	

IDENTIFICATION OF PARTS



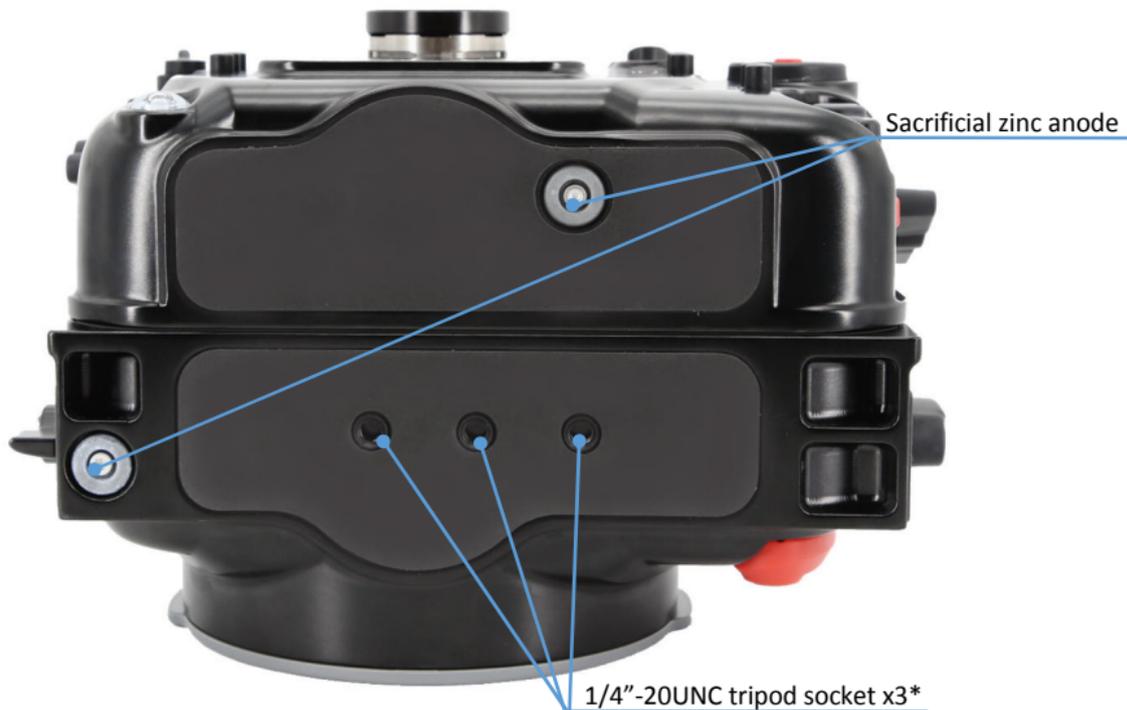


**Handles are not displayed*





**Handles are not displayed*



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

OPENING AND LOCKING THE HOUSING

To open the housing:

Always open and close the housing with the front facing down, place the housing on a flat surface or in your lap.

The housing can be opened and closed by operating the two housing locks; when opening, press the safety buttons, then turn the locks outwards.



To lock the housing:

When closing, make sure there is nothing caught between the closing surfaces of the two halves of the housing.

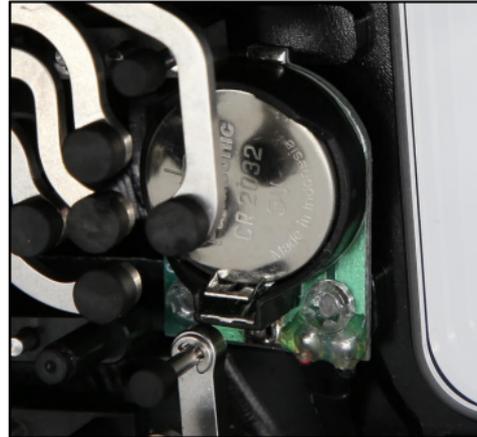
To close, turn the locks towards the housing, and then make sure they are locked in place securely.



PREPARATION OF THE HOUSING

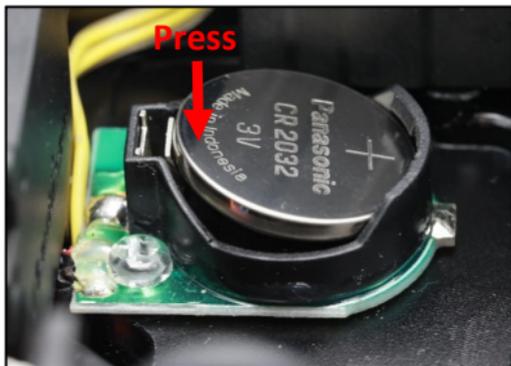
1. After verifying that the main O-ring is in good condition, lightly coat it with the lubricant provided.
2. Make sure the O-ring groove located in the front part of the housing is free from any foreign material; the groove can be cleaned with the aid of a microfiber cloth.
3. Place the main O-ring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

4. Setting up the moisture alarm:

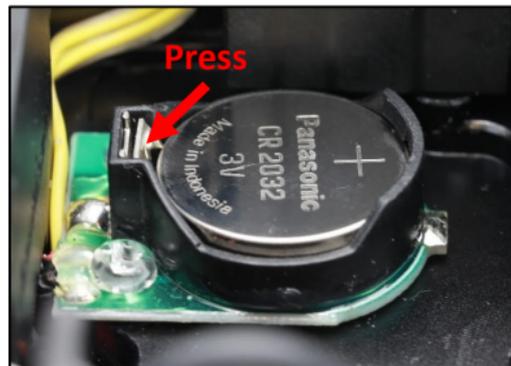


1. Locate and install the battery provided into the battery compartment on the circuit board inside the housing.

Battery Installation:

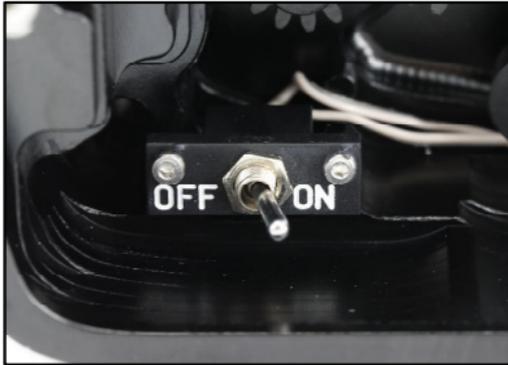


Insert the battery as shown above and then press down the battery.



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

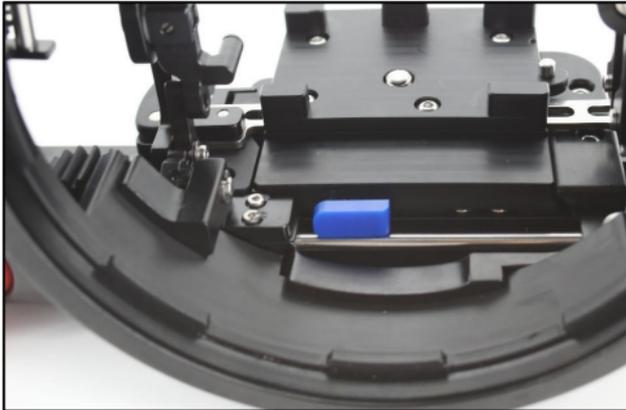
<i>LED indicator</i>	<i>Status</i>
Flash "Blue" light once	Indicates a 2nd generation PCB
Steady "Blue" light	Battery is normal, goes into flashing "Blue" light standby mode after 5 seconds.
"Blue" and "Red" lights alternating	Battery low. Replace battery as soon as possible. Goes into standby mode after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

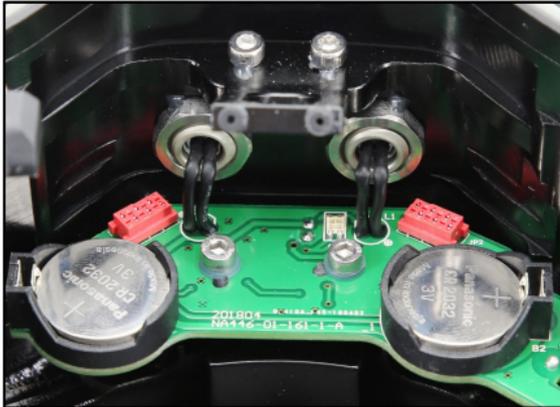
It is required to reset the vacuum system when the vacuum level is dropped from target level to totally lost. i.e. when opening the housing or changing port.

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.

5. Setting up the LED flash trigger:



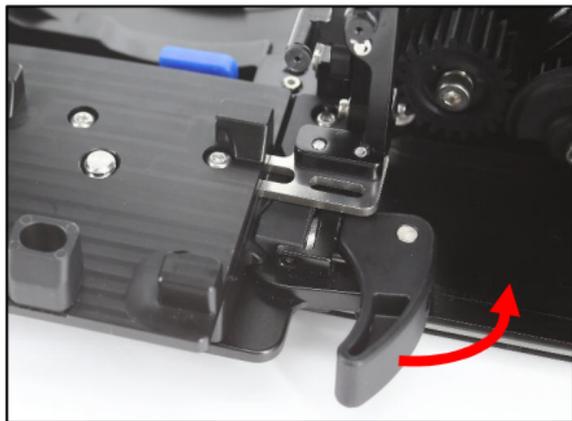
1. Insert the 2x CR2032 batteries into the battery holders. Please noted that the positive terminal should be facing up.

2. Connect the hotshoe plug to the camera hotshoe. Test the flash trigger by pressing the shutter release button on the camera, the LEDs under the optical bulkheads should turn on instantaneously.

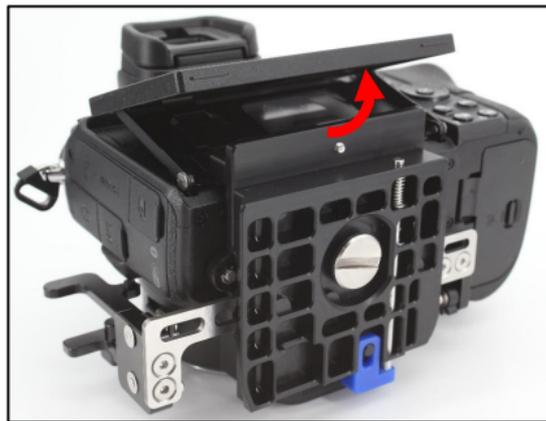
3. The small LED located at the middle of the flash trigger will turn green for 1sec indicating the battery level is OK. It will turn red when low battery.

INSTALLING THE CAMERA

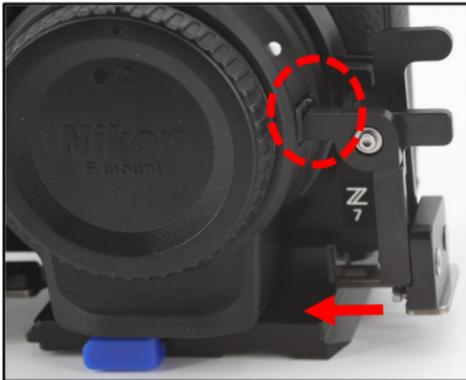
To install the camera into to the housing:



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. Tilt the LCD monitor of the camera upwards, then attach the saddle to the camera by tightening the screw to the tripod socket of the camera.



3.

a. To use with Nikon F mount lenses, Mount Adaptor FTZ is required to install on camera prior to attach them on camera tray. For un- installment, you have to reverse the steps.

b. To use with Nikon Z mount lenses, please rotate the small lever CCW(in red circle) to vertical position, it will let the Z lenses pass through and installed on camera.



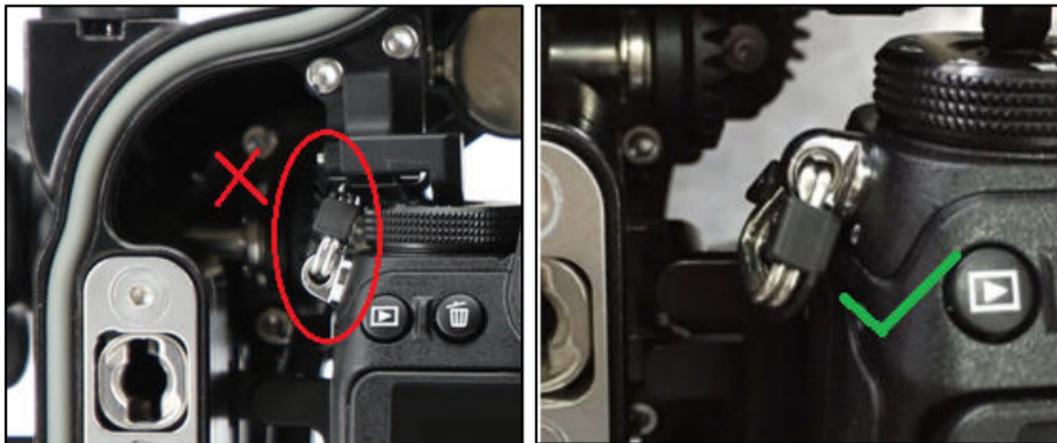
4. Mount the camera by sliding the attached saddle along the rail in the housing until it cannot go in any further.

Note: Make sure the hotshoe plug cable is not obstructed.

5. Slide the hotshoe plug of the flash trigger PCB into the hotshoe of the camera.



6. If installing the camera with lens and gear attached, Pull down the Zoom/ focus gear disengagement lever before mounting lens (with gears installed) to the camera. Engage the gears by pulling up the lever to the original position. Confirm that the zoom/focus knob operates correctly.
7. Mount the camera by sliding the attached saddle along the rail in the housing until it cannot go in any further.
8. 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.



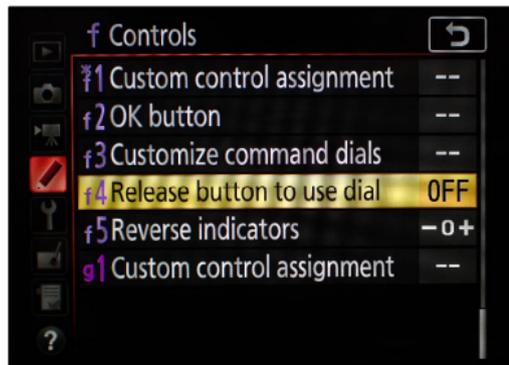
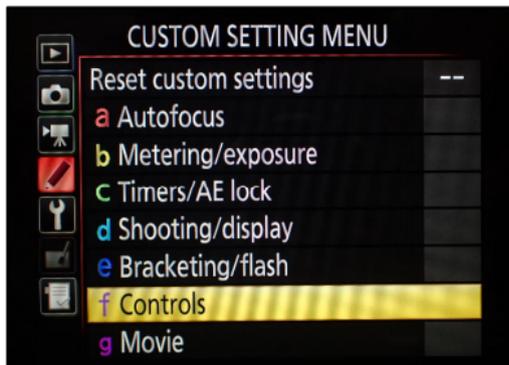
9. The left landyard ring should be placed on the lower position. If not it would interfere with internal part and stop you to lock the housing.

SHOOTING TIPS

Release Button to Use Dial

By setting the “Release Button to Use Dial” function of the Z7 camera to **Yes** allows adjustments which are normally made by holding down a button and rotating a command dial to be made by rotating the command dial after the button is pressed and released. E.g. to change ISO, press the ISO lever once and turn the rear dial to adjust the ISO value.

To enable this function, under Menu, scroll to *Custom Setting Menu* (Pencil shaped icon on the left of the LCD screen), enter ‘f’ *Controls*. Then scroll to ‘f4’ *Release button to use dial* and enter. Select ‘Yes’ and press OK.



MOUNTING THE CAMERA

Please refer to the NAUTICAM system port chart 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. Lift housing cap.



6. Align the Port mounting indices 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.

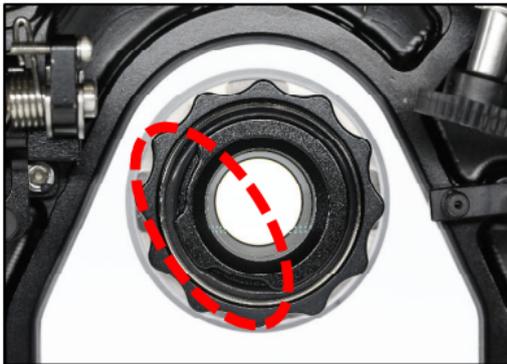


8. Lock the port into place by turning the port locking lever to the inward position. To ensure that the port is securely mounted, confirm that the green line on the safety button of the port locking lever is visible.

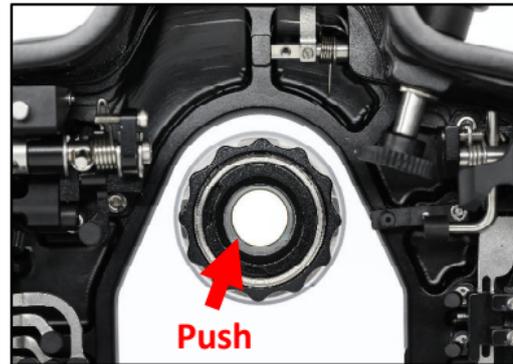
CHANGING THE VIEWFINDER

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 from 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.

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. 26308
TTL Converter for Nikon



P.N. 32201
Nauticam 180° straight
viewfinder



P.N. 32203
Nauticam 45° viewfinder



P.N. 85201
0.36x Wide Angle Conversion Port
with Aluminum Float Collar
(incl.N120 to N100 port adapter)



P.N. 86201
Macro to Wideangle Lens 1(MWL-1) 150
deg.FOV with full frame 60mm macro lens



P.N. 17922

Nauticam Atomos Ninja V Housing for
Atomos Ninja V 5" 4Kp60 4:2:2 10-bit
Reorder/Monitor/Player



P.N. 25085

M28C1R200-M28A1R170 HDMI 2.0 Cable
(for NA-Z7V to use with Ninja V housing)



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