

NA - C50

For Canon EOS C50 Cinema Camera

PN 17344

User Manual
Cinema Housing
FF-MIL

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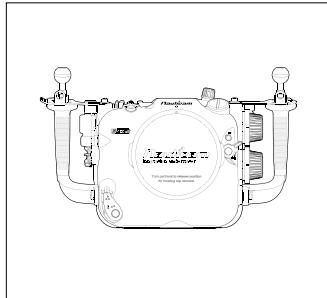
INTRODUCTION

Thank you for purchasing this Nauticam product.

Before using the product, please read this manual thoroughly to familiarize yourself with full scope of functions on the product as well as ensuring that you will use the product correctly.

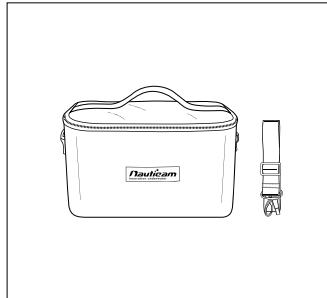
PACKAGE CONTENTS

Make sure that you have all the included items listed below before using this product.
If some items are missing or damaged, contact your local Nauticam dealer.

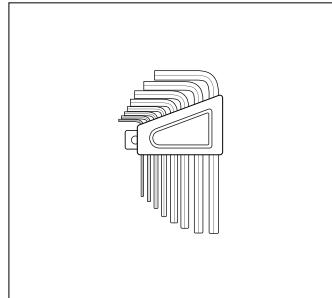


NA-C50

(2 x Handles with Mounting Balls, 1 x Housing Cap, 2 x Optical Fiber Mount Caps, 2 x Stainless Steel Handle Brackets)



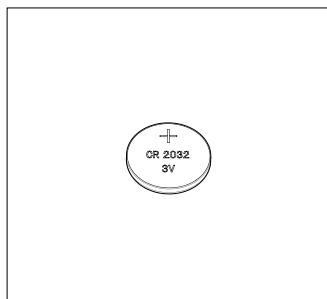
Padded Travel Case



Allen key set

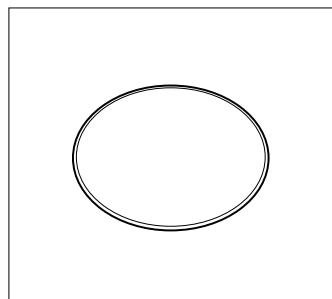


Lubricant



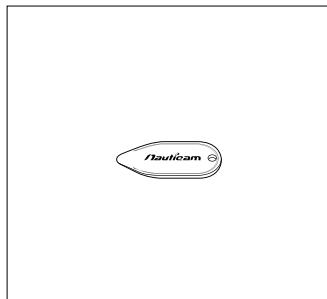
Panasonic CR2032 Battery

(pre-installed for Moisture Alarm)

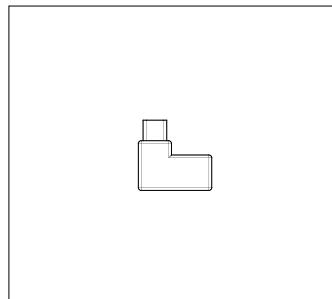


Spare Main O-ring
#90222

After purchase, we suggest that you reuse all packaging materials for future travelling.



O-ring Remover



USB-C to USB-C Right Angled
Cable for Power Delivery

IMPORTANT INSTRUCTIONS

1

Water-tight test of the housing (without camera inside) before usage is recommended as well as any O-ring renewal and port change.

3

Only the accessories specified by Nauticam must be used. Third-party accessories may result in malfunctions or damage to the product.

5

Do not stretch any O-rings excessively. Only remove it using Nauticam O-ring remover.

7

Do not attempt to remove parts of the housing yourself. Repairs must be done at authorized service centers only.

9

Do not expose the housing in direct sunlight for a prolonged period.

11

Prevent any sand or dust or water penetration inside the housing. Be extra careful when changing lens and inserting or removing the camera.

2

Do not seal the housing when travelling by air as this may lead to a pressure difference between the atmosphere and inside the housing.

4

Use only Nauticam lubricant on silicone rubber O-ring.



6

Discontinue use immediately when there is a sign of leakage.

8

The housing should be positioned on a stable and safe surface on land.

10

Do not open the housing in wet or sandy environment. Protect the housing from moisture and debris in order to prevent malfunction or leakage.

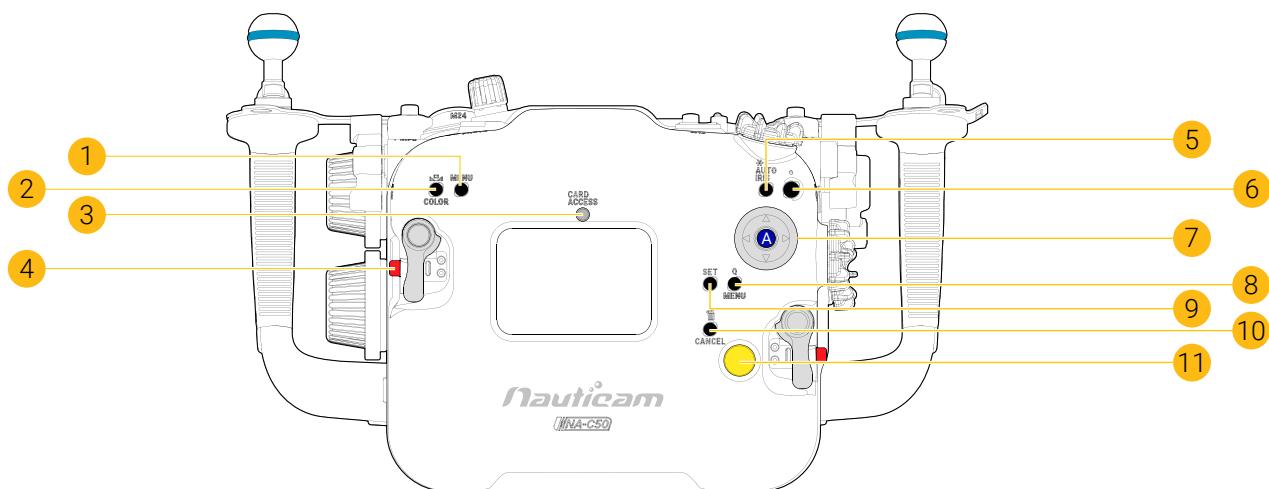


12

This product is not intended for use by children, or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised and/or given instruction by a responsible person concerning use of the product to ensure that they can use it safely.

PART NAMES AND FUNCTIONS

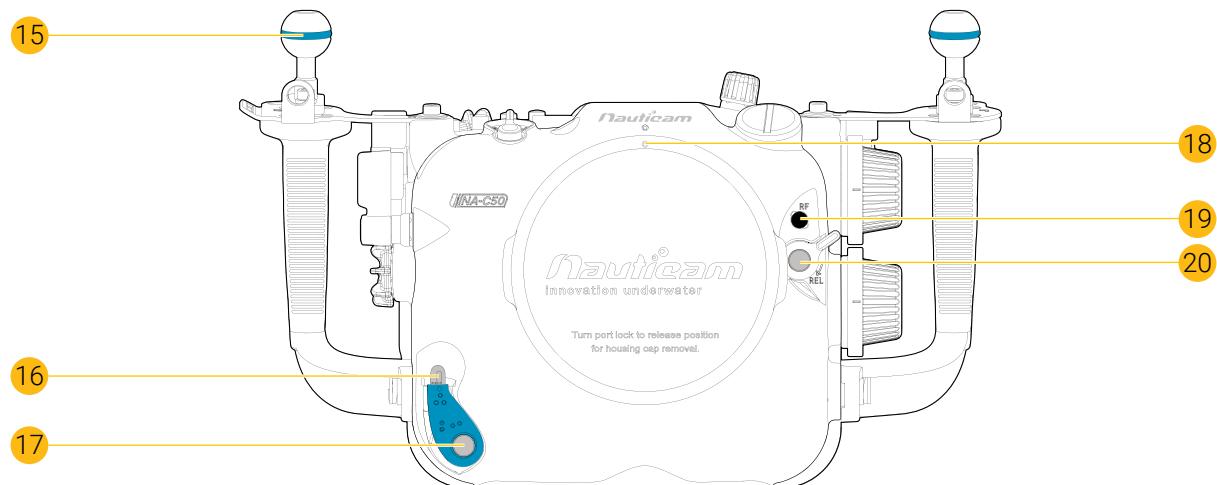
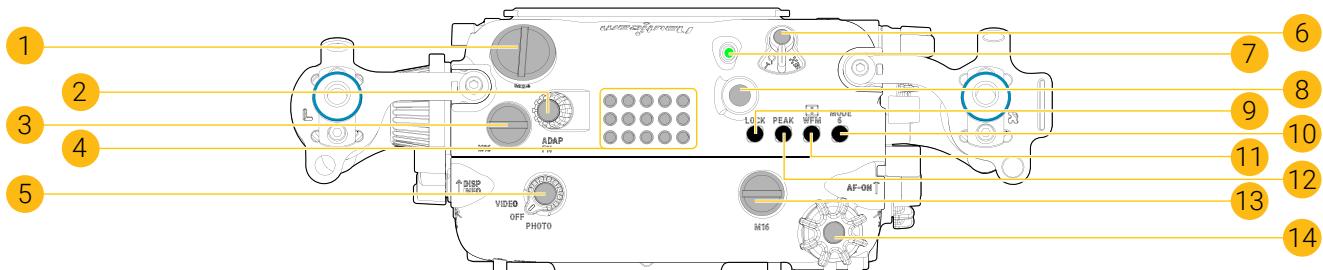
Rear View



1	Menu button	2	White balance button / Rate button
3	Access lamp	4	Housing unlock button
5	Auto Iris button / AE lock button	6	AF-ON button
7	Multi selector	8	Menu button / Quick control button
9	Set button	10	Cancel button / Erase button
11	Moisture alarm window	A	Menu/Set button

PART NAMES AND FUNCTIONS

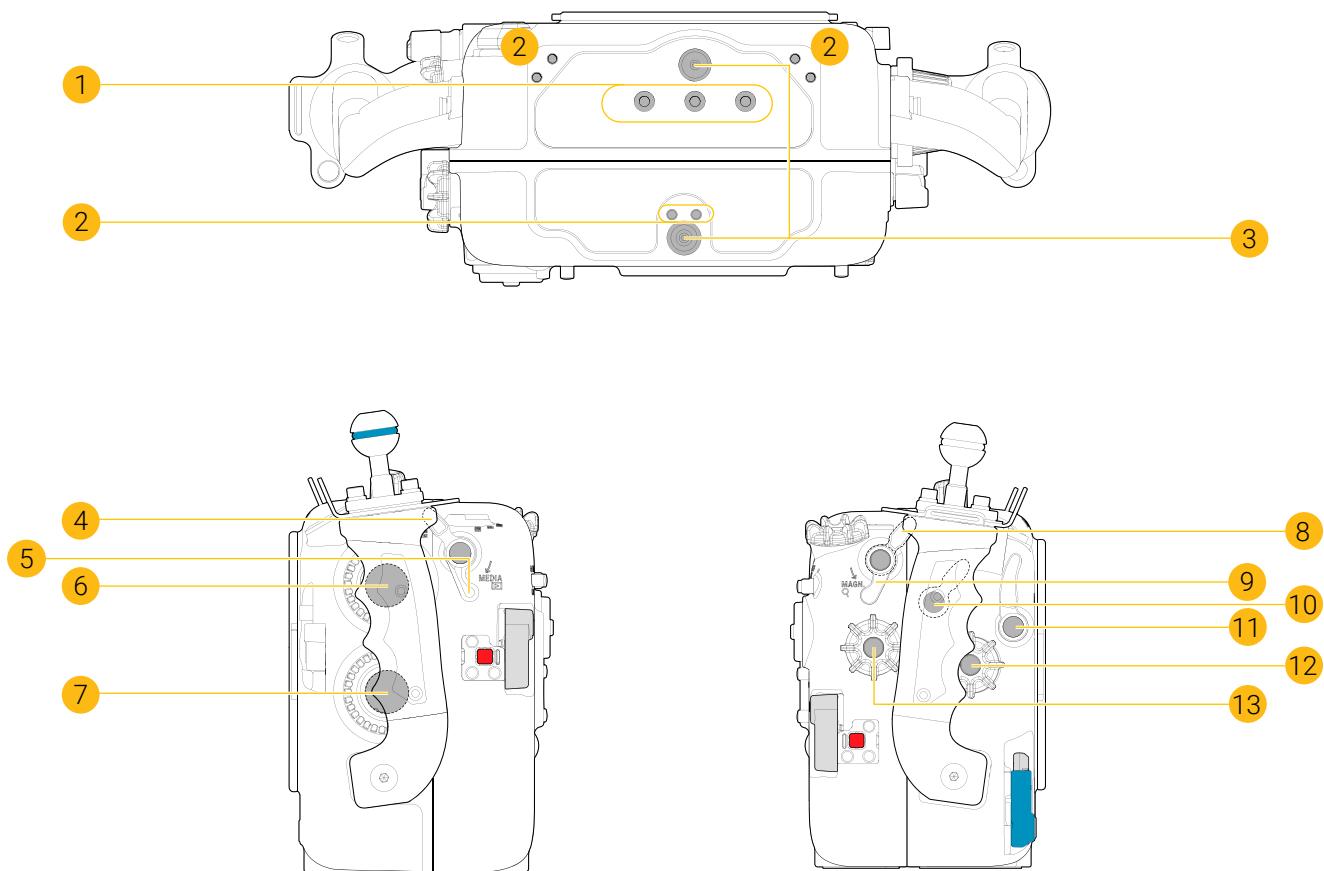
Top + Front Views



1	M24 Accessory port	2	Adaptor Fn dial	3	M16 Accessory port
4	15x 1/4-20 UNC holes	5	Power switch	6	Zoom lever
7	Port lock safety indicator window	8	M10 Accessory port	9	Lock button
<p>● The port is securely locked when the window shows green</p>					
10	Mode 6 button	11	WFM button	12	Peaking button
13	M16 Accessory port	14	Quick control dial 2	15	Accessory mounting ball
16	Port lock safety button	17	Port locking lever	18	Port index mark
19	RF mount lens release button	20	Lens release lever		

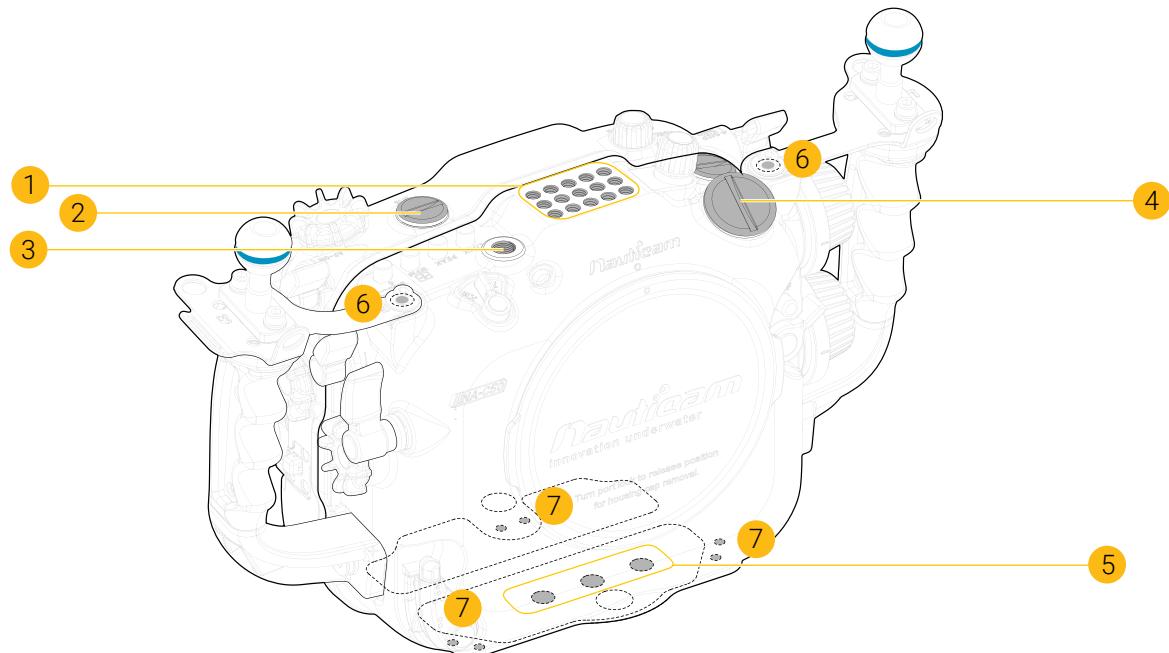
PART NAMES AND FUNCTIONS

Back + Side Views



1	1/4" Threaded tripod holes	2	M5 Threaded holes
3	Sacrificial zinc anodes	4	DISP INFO lever
5	Media lever / Playback lever	6	Zoom/Focus knob
7	Zoom/Focus knob	8	AF-ON lever
9	Magnify lever	10	FUNC / M-Fn lever
11	Shutter release lever	12	Main dial
13	Quick control dial 1		

HOUSING MOUNT



Housing mount

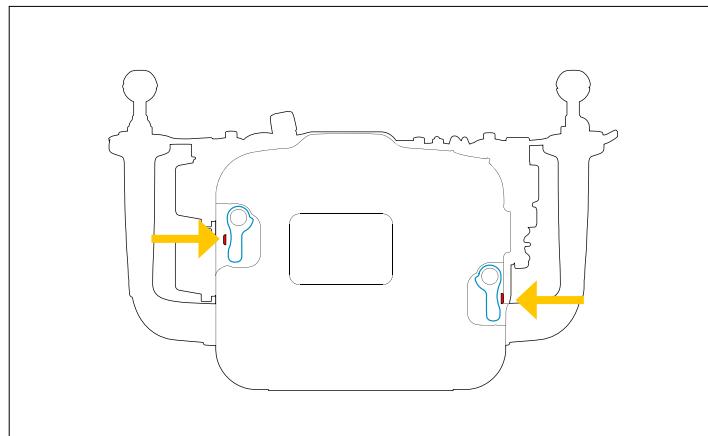
Compatible accessories

1	1/4" -20 mounting threads	17959	Housing Mounting ball with 1/4" screws
2	M16 Accessory port	25625	M16 Vacuum Valve II (Optional)
3	M10 Accessory port	25221	M10 Strobe mounting ball
		25224	M10 Strobe mounting ball with hole
4	M24 Accessory port	25086	M24 adaptor for HDMI 2.0 cable
		25099	HDMI 2.0 cable
		25033	Standard HDMI bulkhead with M16 thread
		26326	M24-M16 Adaptor for use with 26325
		25100	HDMI (D-A) 1.4 Cable in 200mm length
* HDMI1.4 cable can be installed using M24 or M16 accessory port			
5	1/4" -20 mounting threads	17954	Universal tripod plate
		17960	Universal quadra-pod plate
6	M5 Accessory ports	25228	M5 Strobe mounting ball
7	M5 Threaded holes	25218	Mounting ball set for tripod legs

OPENING THE HOUSING

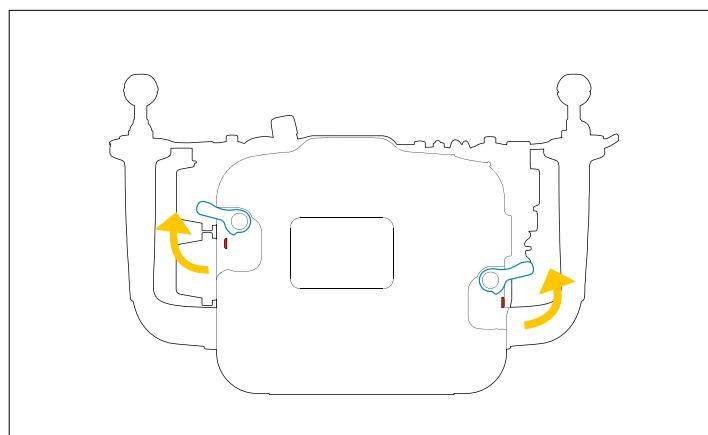
* drawings as illustrations only

1



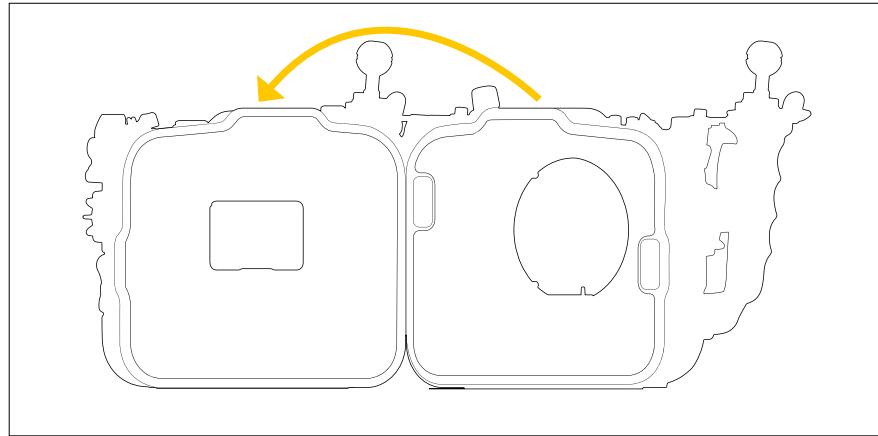
depress housing unlock button

2



turn housing lock outward

3

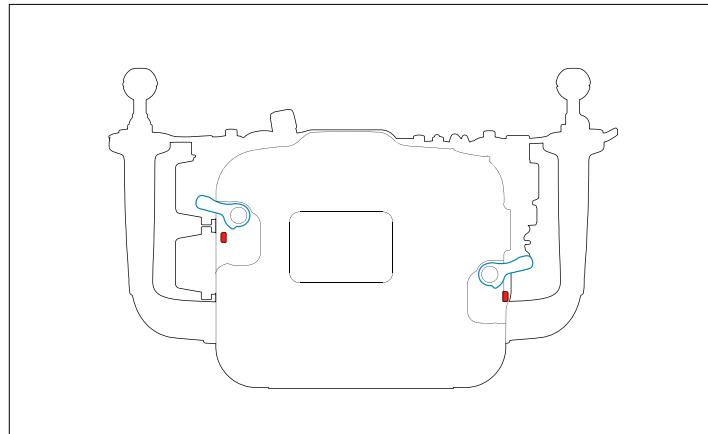


lift up the back housing

CLOSING THE HOUSING

* drawings as illustrations only

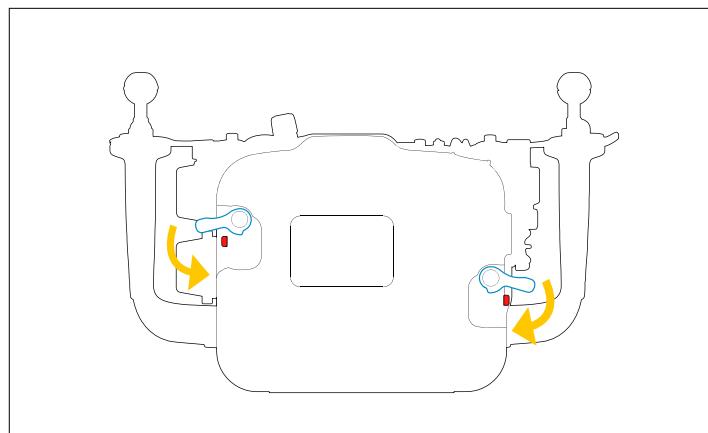
1



before closing the housing, clean and lubricate the main O-ring

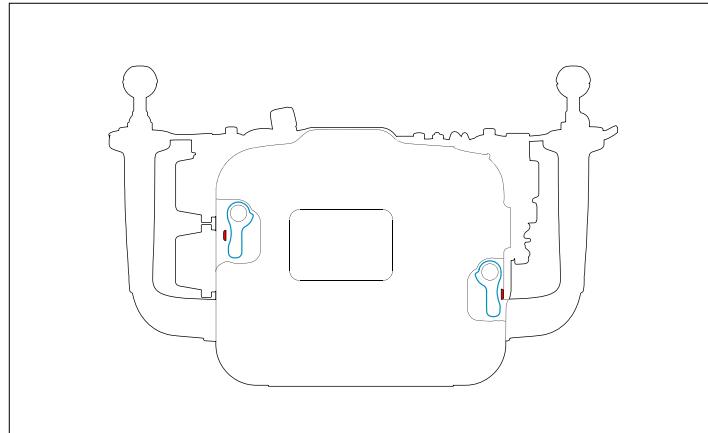
make sure nothing is caught between front and back housing and that they are fully aligned before locking

2



turn housing lock inward until you hear and feel it click into place

3



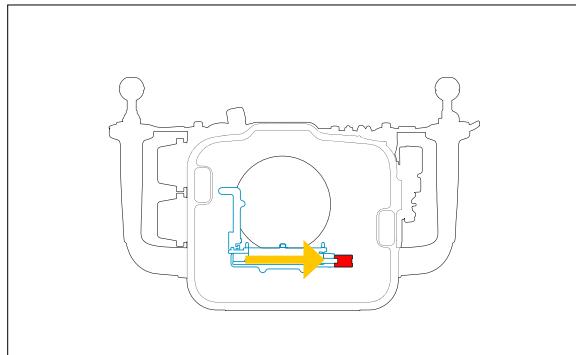
housing locked in place securely

PREPARATION FOR USE

* drawings as illustrations only

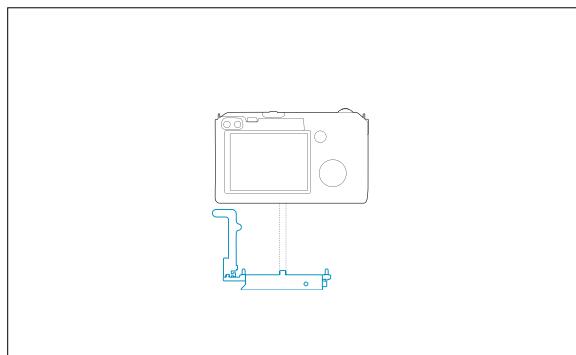
Installing the Camera - housing tray attachment

1



unlock camera tray lever and remove the tray from the housing

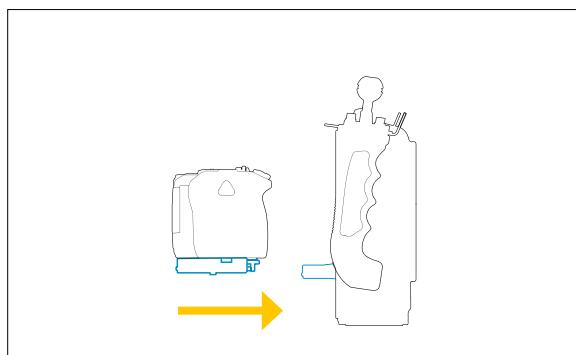
2



attach the camera tray by tightening the tray screw into the tripod socket of the camera

place the actuator on the camera tray in place and make sure it is engaged with the camera

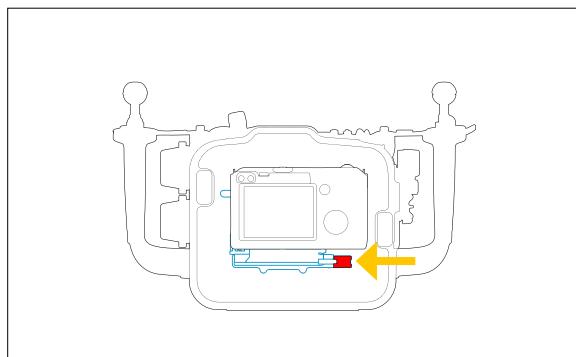
3



** pull out the zoom/focus knob if installing the camera with lens and gear attached*

slide the camera tray back into the housing along the tray rail

4



lock camera tray

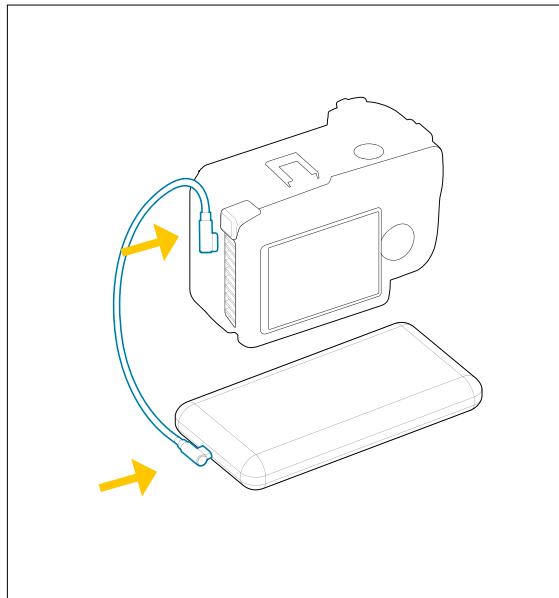
** place the zoom/focus knob in place and make sure it is engaged with lens gear*

PREPARATION FOR USE

* drawings as illustrations only

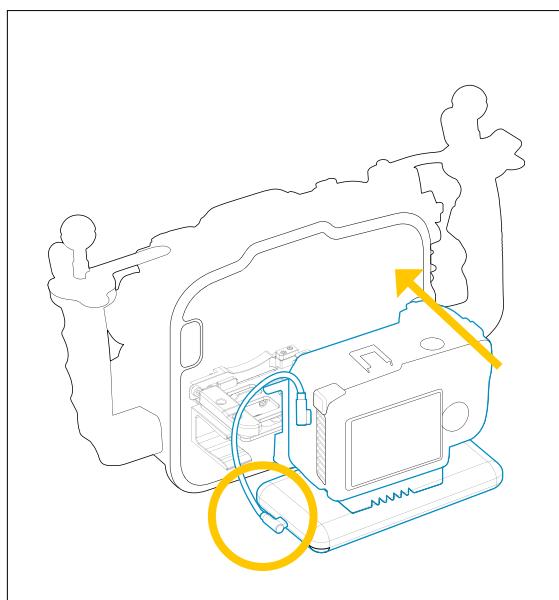
Installing the battery

1



connect the camera and a battery with a cable after plug USB-C male to female elbow adaptor provided

2



slide the camera tray back into the housing along the tray rail and battery back into a battery holder under the camera as shown.

then, lock camera tray

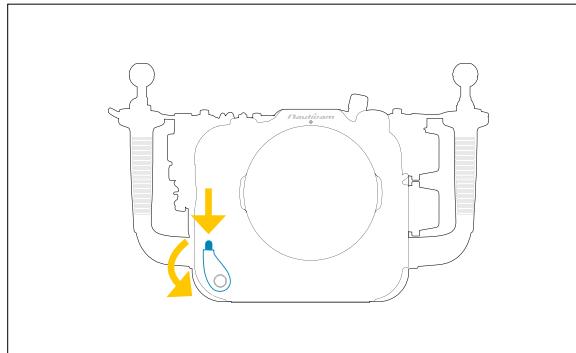
* please refer to page 22 for list of compatible external battery

PREPARATION FOR USE

* drawings as illustrations only

New Patented Port Mounting Design

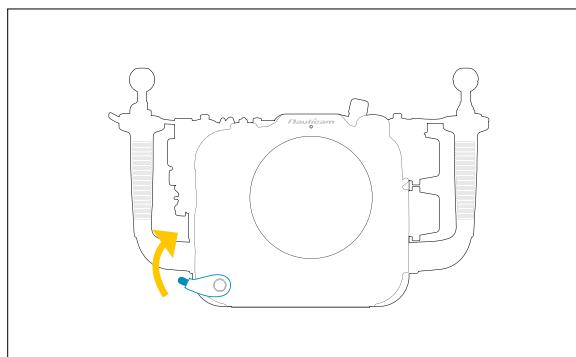
1



depress safety button and rotate anti-clockwise

remove housing cap from port mount

2

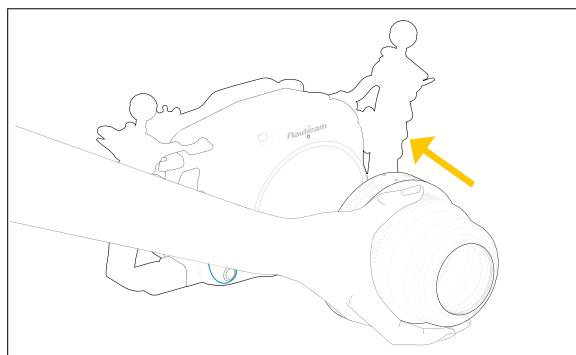


rotate locking lever clockwise to lock



Do not operate the blue lever with force

3

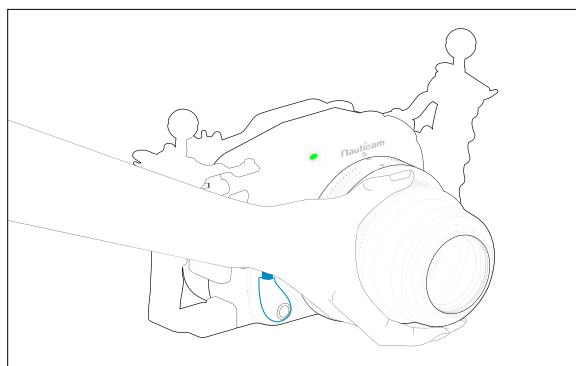


lubricant the port O-ring before mounting onto the housing

align the index mark

then push the port assembly straight in firmly until you can hear and feel a distinct 'click'

4



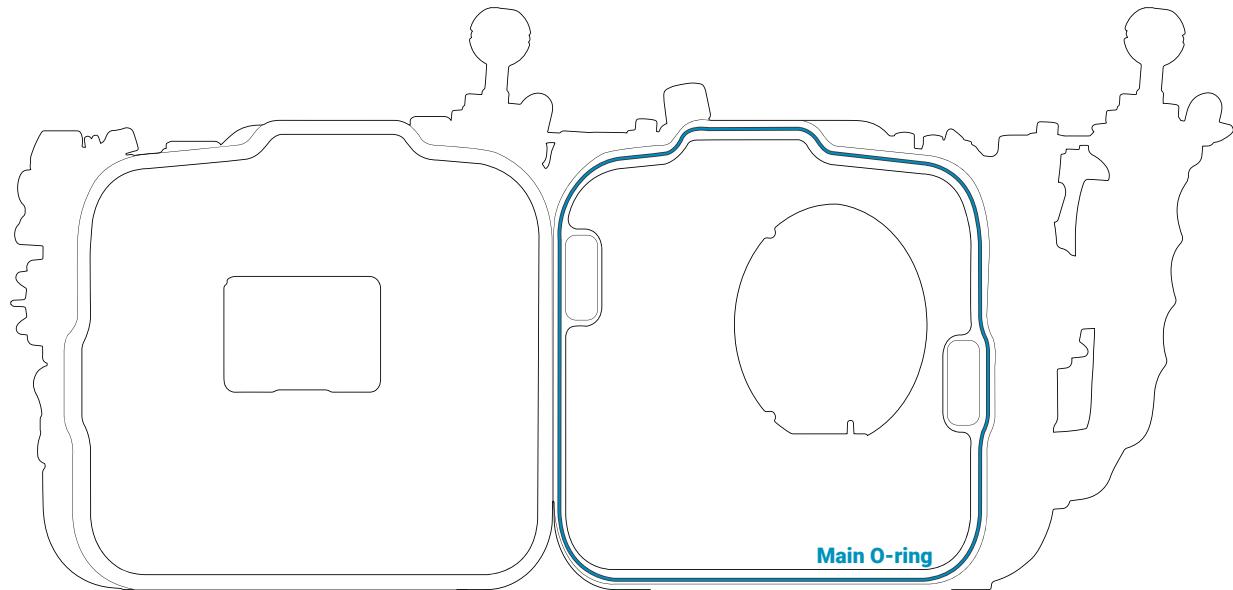
finally check the port lock safety indicator window

● the window shows green when the port is securely locked

PREPARATION FOR USE

* drawings as illustrations only

Coating housing O-ring



1

remove the main O-ring using an O-ring remover

2

clean the O-ring groove with a cloth and ensure that it is free from salt or other foreign materials

3

lightly coat it with provided lubricant

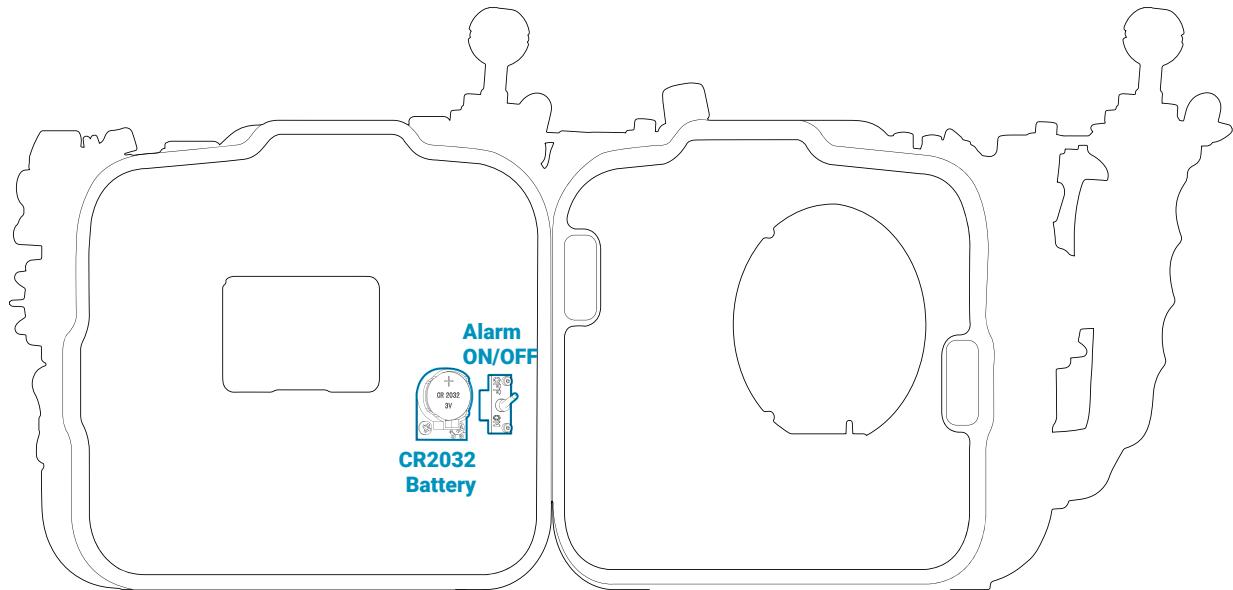
4

return the main O-ring by slowly pressing from one corner to the whole perimeter

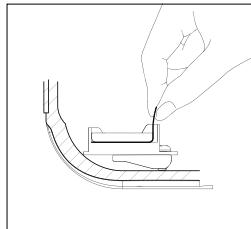
PREPARATION FOR USE

* drawings as illustrations only

Setting up moisture alarm

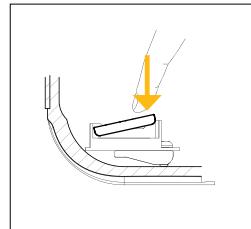


1



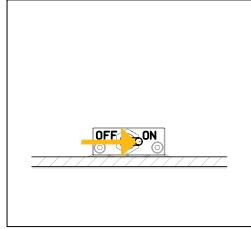
remove battery insulation film

2



press the battery down until it click into place

3



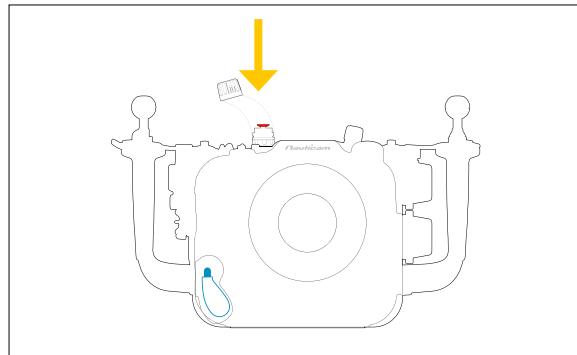
switch on the alarm
- the moisture alarm window will flash in **BLUE** when it is working correctly

PREPARATION FOR USE

* drawings as illustrations only

Changing lens/port without opening the housing

1

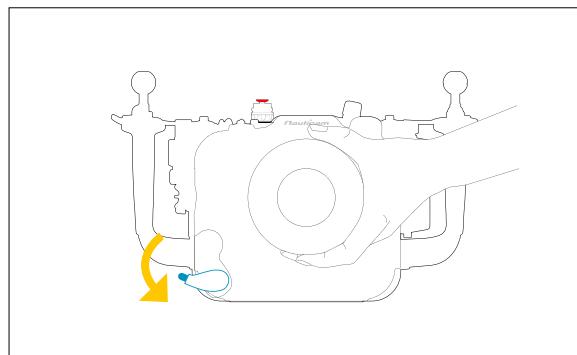


If using with vacuum valve :

remove the cap from the vacuum valve and press the red button to release pressure before unlocking port lock

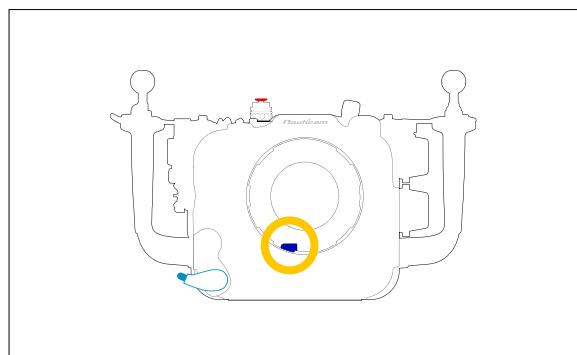
If using without vacuum valve,
please follow from step 2

2



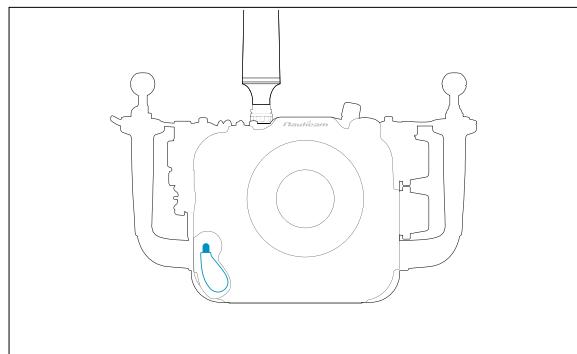
unlock port lock and remove port assembly

3



press the blue button to reset
vacuum alarm before replacing
port

4



replace port assembly then
lock port lock

reset vacuum valve system using
hand pump and close the cap
after

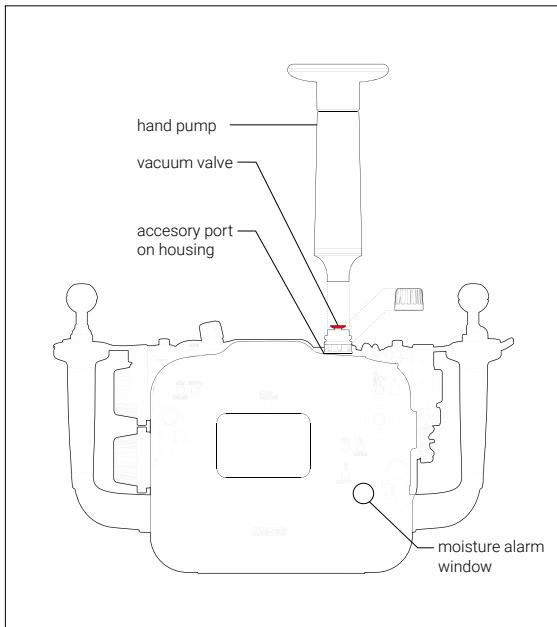
* please refer to page 16 on complete vacuum system guidance

OPTIONAL ACCESSORIES

* drawings as illustrations only

Vacuum valve system

1



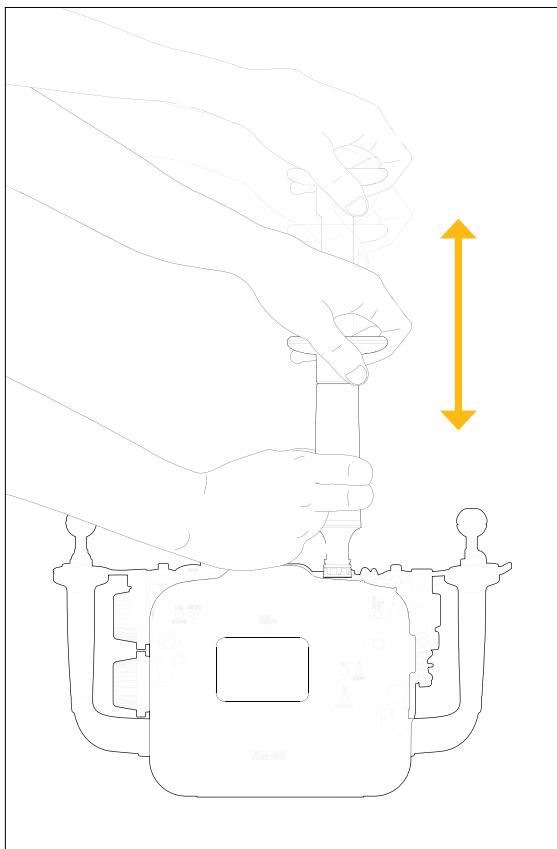
remove the plug of M16 accessory port from the housing

remove the cap from the vacuum valve

slightly lubricate the o-ring and make sure the o-ring is in place

then tighten the vacuum valve to the housing with the tool provided

2



connect hand pump to the valve and pump several times until it reaches the target vacuum level

close vacuum valve cap

Moisture alarm window colour indication :

Steady Blue		device is turned on
Flashing Blue		standby mode, ready for pumping
Steady Green		target vacuum level is reached
Flashing Yellow		vacuum level is dropping
Flashing Red		vacuum is totally lost, circuit stalled until device is switched off
Alternating Blue and Red		vacuum is totally lost, circuit stalled until device is switched on
Steady Red		out of battery

* It is recommended to leave the housing for at least 20mins to ensure it is sealed. If the LED light changes from steady green light to rapidly flashing yellow light, that means there is a leakage. Please check every O-ring and then conduct the vacuum test again.

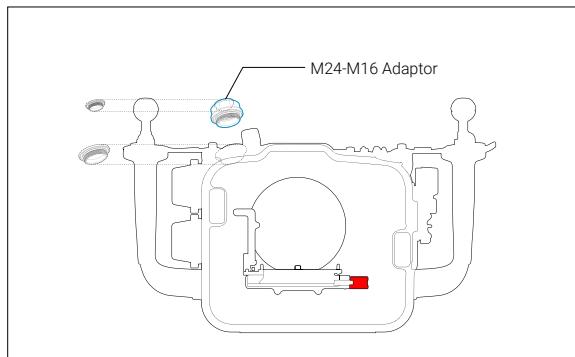
* please contact our authorized service centers if testing fails

OPTIONAL ACCESSORIES

* drawings as illustrations only

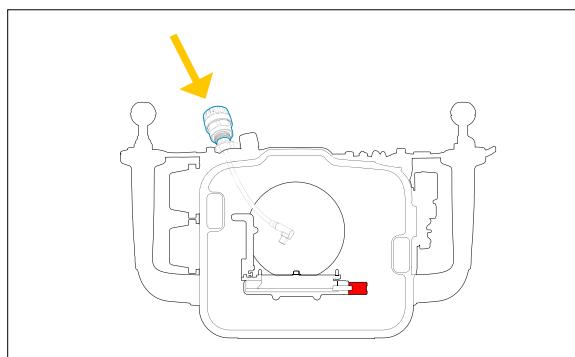
Installing Surface USB-PD Power Bank

1



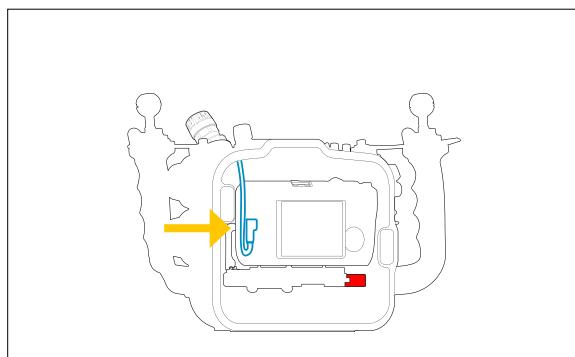
unscrew the M24 accessory port cap from the camera housing and screw the M24-M16 adaptor into the housing port

2



plug the USB-C Bulkhead into the accessory port, gently push the connection head into the accessory port until it cannot go further then tighten it by turning the locking nut

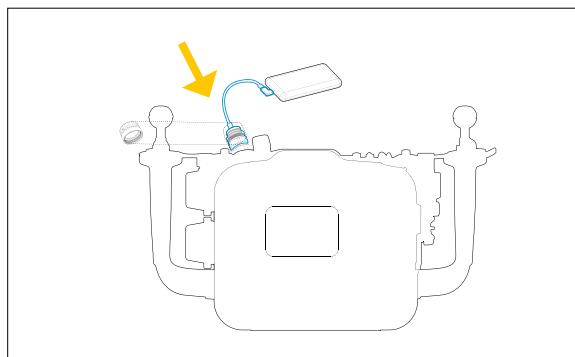
3



plug the cable into the USB Type-C jack on the camera with camera tray attached before sliding into the camera housing

slide the camera tray into the housing along the tray rail then lock camera tray

4



close the housing gently

plug the power bank with USB Type-C connector into the USB-C bulkhead

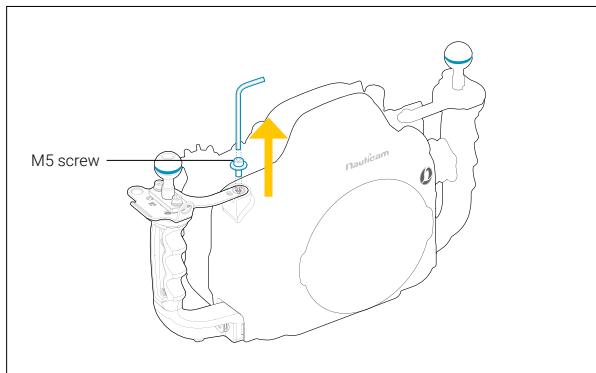
OPTIONAL ACCESSORIES

* drawings as illustrations only

Strobe Mounting Ball

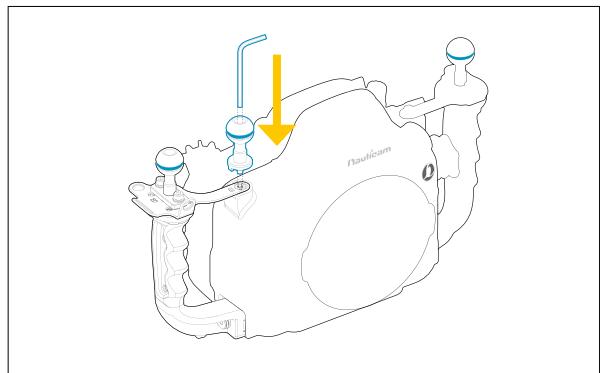
Installing M5 Strobe Mounting Ball - **RECOMMENDED**

1

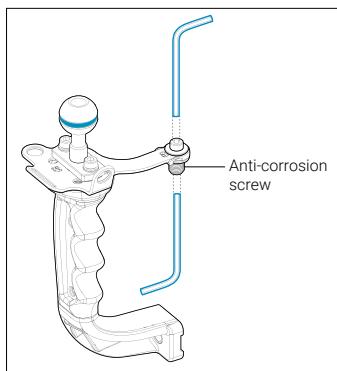


remove M5 screw with the allen key provided in the housing package

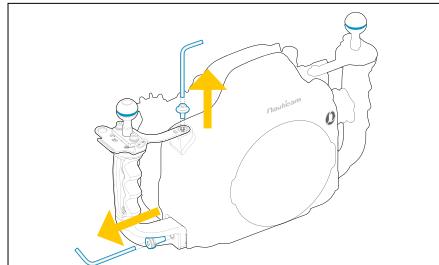
2



screw #25228 M5 Strobe mounting ball directing onto the M5 thread

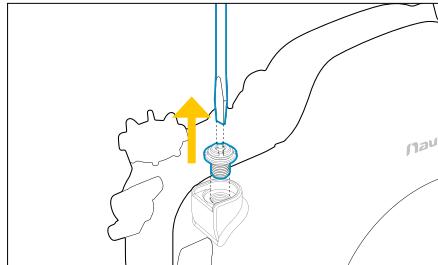


Installing M10 Strobe Mounting Ball - **Optional**



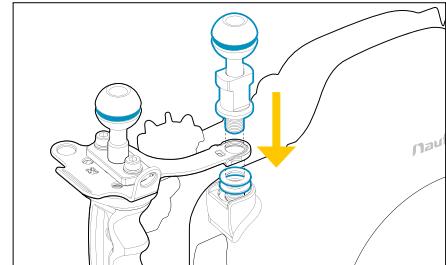
1

remove M5 screw and housing handle screw on the side



2

take out the handle and remove the anti-corrosion screw



3

replace the handle and screw the M10 strobe mounting ball onto the housing as shown

CARE/STORAGE

1

Soak the housing system in fresh water after salt water usage

2

Operate all controls and buttons at least 3 times while immersed in fresh water

3

We recommend cleaning and inspecting the main O-ring each time after diving for any damage and every time the housing is opened.

4

Protect the housing with robust and shock-proof travel case during transportation. Do not travel with camera inside housing.

5

We recommend to ship the housing to our servic centers for a complete overhual after 500 dives/every 3 years.

WARRANTY

All NAUTICAM Housing Products and Viewfinders are warranted against any material and manufacturing defects for two years from the date of purchase for consumer use. NAUTICAM Optical Accessories are warranted against material and manufacturing defects for a period of one year, and HDMI cables carry a year warranty.

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.

SPECIFICATIONS

Construction

Housing body	Hard Anodized Aluminium Alloy
Display window	Abrasion Resistant Polycarbonate

Dimensions

Width	366 mm
Height	237 mm
Depth	131 mm

Weight

In air	3.74kg
Buoyancy in water	Negative 233g (incl. camera, LP-E6P and Anker 20000mAh Power bank)

Depth

Rating	100 m
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Port Specifications

Port mount	N120 RF Mount II (for C50/R6III)
Port accessories	1 x M24, 2 x M16, 1 x M10

Surface USB-PD Power bank

26325	USB-C Bulkhead with USB-C Connector
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Lanyard

25413	27cm Lanyard with 2 Snap Hooks
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Buoyancy Options

72261	Ø70x200mm Carbon Fibre Aluminium Float Arm (Buoyancy 370g)
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72262	Ø70x250mm Carbon Fibre Aluminium Float Arm (Buoyancy 520g)
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72263	Ø70x300mm Carbon Fibre Aluminium Float Arm (Buoyancy 670g)
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72264	Ø90x170mm Carbon Fibre Aluminium Float Arm (Buoyancy 450g)
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72265	Ø90x220mm Carbon Fibre Aluminium Float Arm (Buoyancy 720g)
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72266	Ø50x200mm Carbon Fibre Aluminium Float Arm (Buoyancy 160g)
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72267	Ø50x250mm Carbon Fibre Aluminium Float Arm (Buoyancy 240g)
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72268	Ø50x300mm Carbon Fibre Aluminium Float Arm (Buoyancy 320g)
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72233	Single Bayonet Holder II for Ø70 Float Arm
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72234	Double Bayonet Holder II for Ø70 Float Arm
-------	--

72243	Single Bayonet Holder II for Ø90 Float Arm
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72244	Double Bayonet Holder II for Ø90 Float Arm
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83252	Bayonet Holder for Arms
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83253	Double Bayonet Holder for Arms
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83254	Bayonet Lens Holder for Inon Float Arms
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87516	EMWL Bayonet Holder for Ø70 Float Arm
-------	---------------------------------------

87517	EMWL Bayonet Holder for Ø90 Float Arm
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HDMI CONNECTION & MONITOR OPTIONS

HDMI Connectivity Required Accessories (1.4)

25033	Standard HDMI Bulkhead with M16 Thread
26326	M24-M16 Adaptor for use with 26325
25100	HDMI (D-A) 1.4 Cable in 200mm Length
25082	25082 HDMI 1.4 Cable for Ninja V Housing in 0.75m Length
25047	HDMI (D-D) cable in 800mm length

Monitor Options (1.4)

16611	Nauticam 7" G7 UW ULTRAHD Monitor
16612	Nauticam 7" T7 UW ULTRAHD Monitor
17927	NA-Shinobi II Housing
17922	Nauticam Atomos Ninja V Housing
* 25082	is required for use with 17922 monitor housing
* 25047	is required for use with 16611/16612 monitor housing

HDMI Connectivity Required Accessories (2.0)

25086	M24 Adaptor for HDMI 2.0 Cable (incl. tightening tool)
25099	M24A2R200-M28A1R170 HDMI 2.0 Cable

Monitor Options (2.0)

17922	NA-Ninja V Housing
17922S	Nauticam Atomos Ninja V-S Housing

Optional Monitor Mounting Accessories

17951	Atomos Housing Mounting System
17954	Tripod Plate
17957	Nauticam Monitor Housing Mounting Adaptor (TBD)
17960	Universal Quadra-Pod Plate
17961	Swivel and Tilt Adjustable Monitor Mount System
* 96355	Housing skids for NA-R5C/C50

WET LENS COMPATIBILITY

* please refer to Nauticam port charts for more setup information

Nauticam optical lenses

Macro	81202 Super Macro Convertor 2
	81203 Super Macro Convertor 3
	81301 Compact Macro Convertor 1
	81302 Compact Macro Convertor 2
	81501 Mid-range Focus Optimizer 1
	81503 Mid-range Focus Optimizer 3
Macro to Wideangle	86201 Macro to Wideangle Lens 1 (MWL-1) 150 deg. FOV with full frame 60mm macro lens
	87303 EMWL Set #3
	87203 EMWL Focusing Unit #3 (for Canon RF 100mm f2.8 Macro)
	87211 EMWL 150mm Relay Lens
	87212 EMWL Angled Relay Lens
	87221 EMWL 60° Objective Lens
	87222 EMWL 100° Objective Lens
	87223 EMWL 130° Objective Lens
	87226 EMWL 160° Objective Lens
Wideangle	83202 Wet Wide Lens 1B (WWL-1B) 130 deg. FOV with Compatible 28mm Lenses (incl. float collar)
	83203 Wet Wide Lens Compact (WWL-C) 130 Deg. FOV with Compatible 24mm Lenses (incl. float collar)
	85204 0.57x Wide Angle Conversion Port - 2 (WACP-2) 140 Deg. FOV with Compatible 14mm Lenses (incl. float collar)
	85205 N100 0.36x Wide Angle Conversion Port Compact (WACP-C)
	85206 N120/N100 0.36x Wide Angle Conversion Port (WACP-1B) (incl. float collar & interchangeable port mounting ring)
	85207 N120/N100 Fisheye Conversion Port (FCP-1) 170 Deg. FOV with Compatible 28mm Lenses (incl. float collar & interchangeable port mounting ring)

Optional accessories

25101 M67 flip diopter holder for M67 macro ports
25108 M67 Double Flip Holder for M67 Macro Ports
83250 M67 to Bayonet Converter II
83251 M77 to Bayonet Converter II
83214 Bayonet Mount Adaptor for SMC/CMC
86221 M67 Flip holder for MWL-1
86222 Double Flip Holder for MWL-1
87501 Flip Holder for EMWL
87512 Shade for 130° Objective Lens
87513 Shade for 100° Objective Lens
87516 EMWL Bayonet Holder for Ø70 Float Arm
87517 EMWL Bayonet Holder for Ø90 Float Arm
87518 Strobe Mounting Brackets for EMWL Relay Lens

EXTERNAL BATTERY

Recommended External Batteries

Anker Power Bank 20,000mAh Travel Essential Portable Charger	Dimensions : 157.5 x 73.5 x 26mm Weight : 440g
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* Please use the USB-C to USB-C Right Angled Cable included in the housing package
* The maximum size of compatible power bank is 165mm (W) x 76mm (D) x 26mm (H)

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