JUNE, 2022

NA - R5C

For Canon EOS R5C Camera

PN 17337

User Manual

Housing

FF- MIL

Introduction 2

Package Contents 2

Important Instructions 3

Part Names and Functions 4

Housing Mount 7

Opening the housing 8

Closing the housing 9

Preparation for Use 10

Optional Accessories 17

Care/Storage 20

Warranty 21

Specifications 22

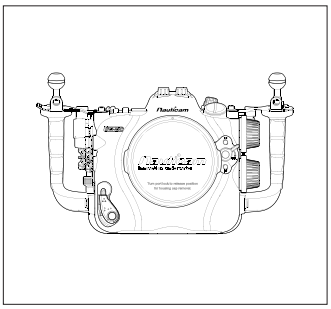
INTRODUCTION

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.

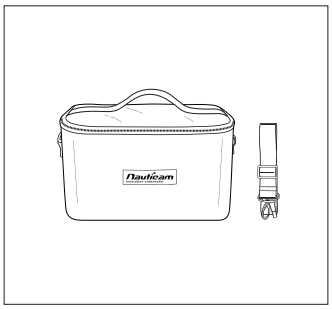
PACKAGE CONTENTS

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.

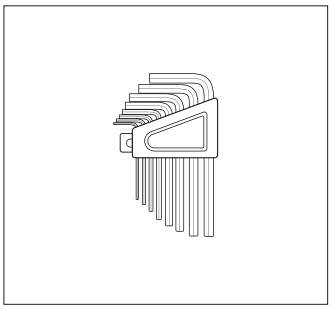


NA-R5C

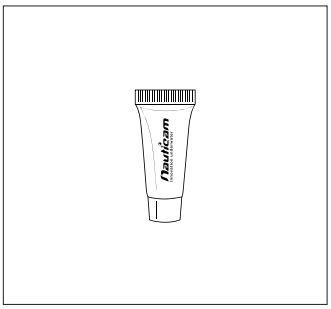
(2 x Handles with Mounting Balls, 1 x Housing Cap,
2 x Optical Fiber Mount Caps, 2 x Stainless Steel Handle Brackets)



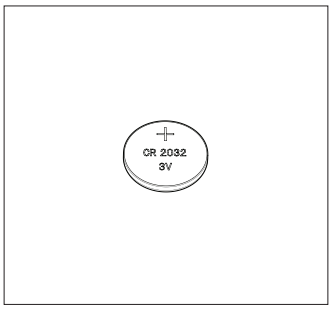
Padded Travel Case



Allen key set

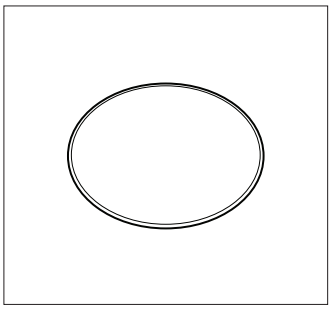


Lubricant

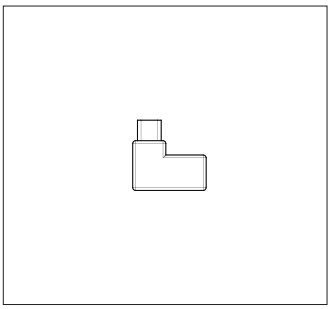


Panasonic CR2032 Battery

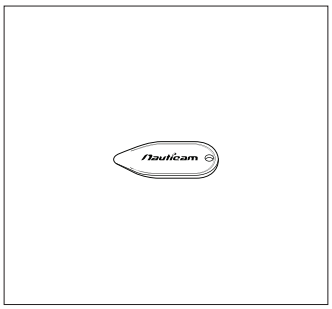
(pre-installed for Moisture Alarm)



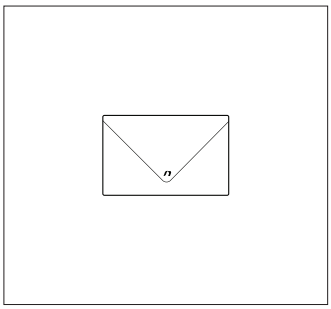
Spare Main O-ring



USB-C Male to Female
elbow adaptor



O-ring Remover



Manual Instruction Card

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

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.

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.

3

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

4

Use only Nauticam lubricant on silicone rubber O-ring.

5

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

⚠ 6

Discontinue use immediately when there is a sign of leakage.

7

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

8

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

9

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

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.

11

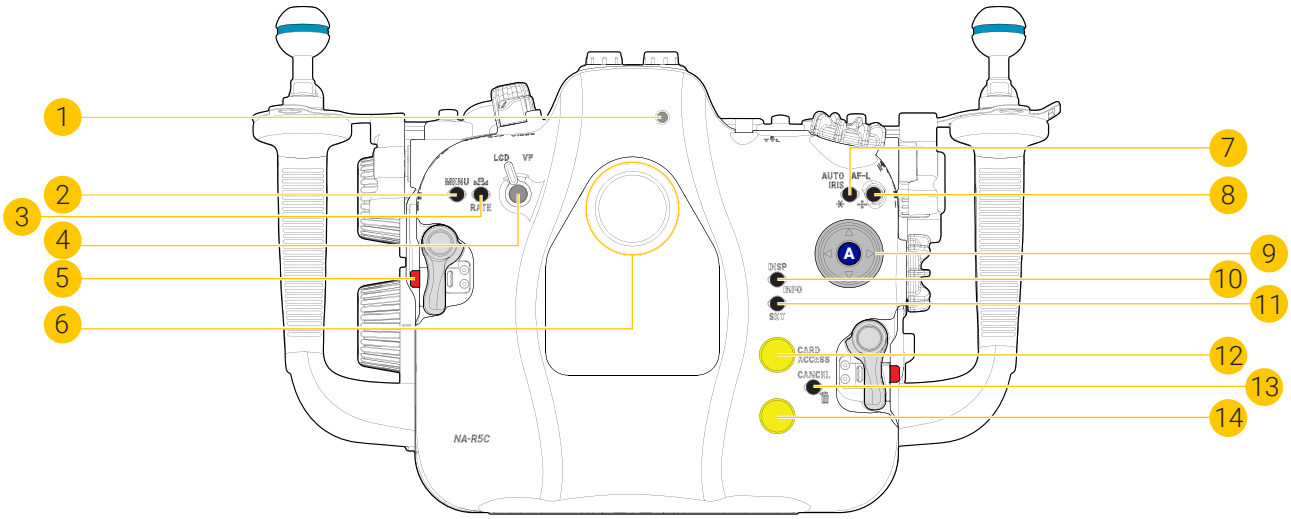
Prevent any sand or dust or water penetration inside the housing. Be extra careful when changing lens and inserting or removing the camera.

⚠ 12

This product is not intened 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

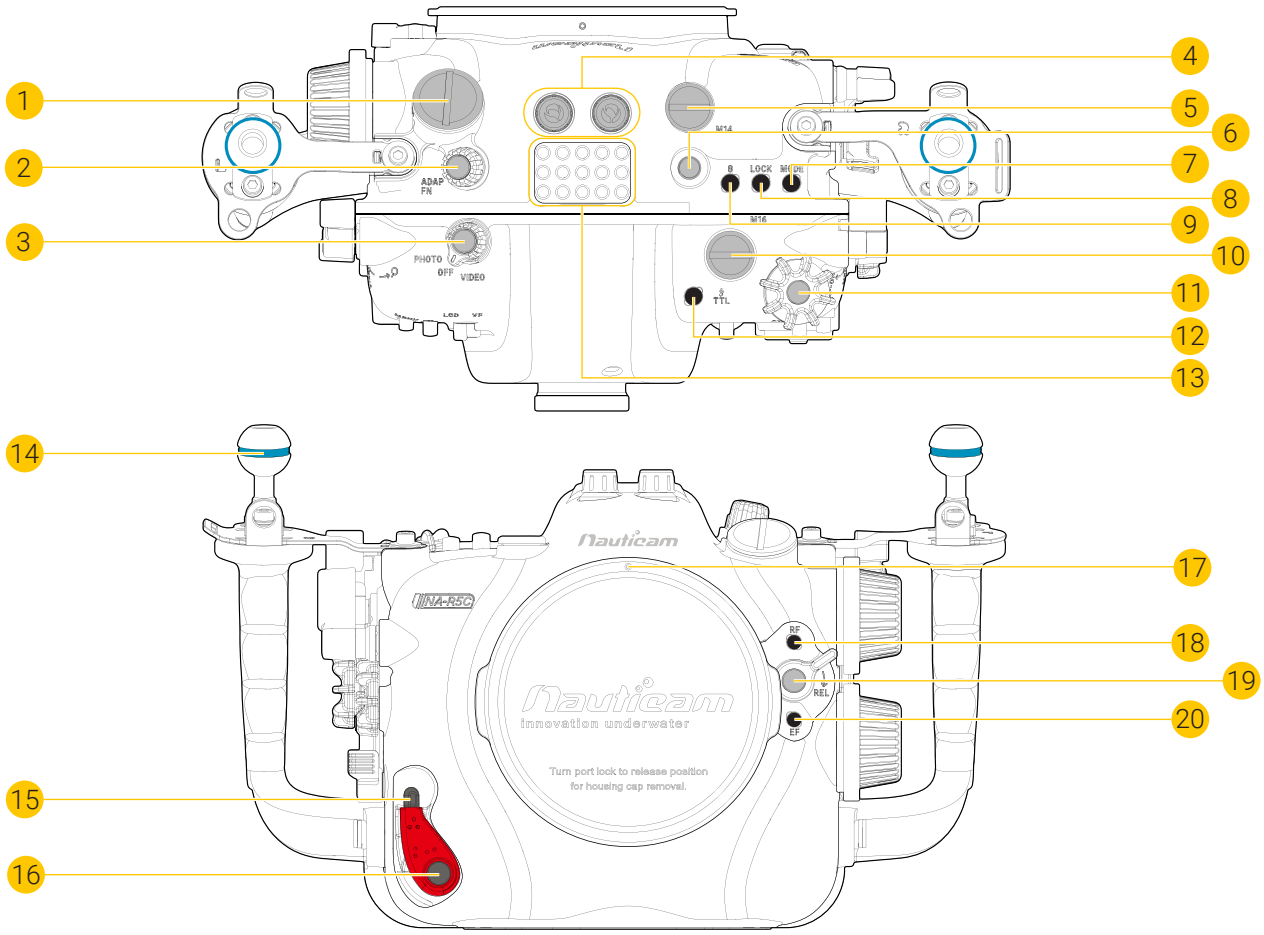


1		TTL Indicator Window	2		Menu button
3	*	White balance button / Rate button	4		LCD / VF lever
5		Housing unlock button	6		0.66x viewfinder
7	*	Auto Iris button / AE lock button	8	*	AF-L button / AF point selection button
9		Multi selector	10	*	Display button / Info button
11		Set button	12		Access lamp
13	*	Cancel button / Erase button	14		Moisture alarm window
A		Multi selector - center			

**Names and Functions differ in PHOTO and VIDEO modes. Yellow highlighted parts are only for PHOTO mode*

PART NAMES AND FUNCTIONS

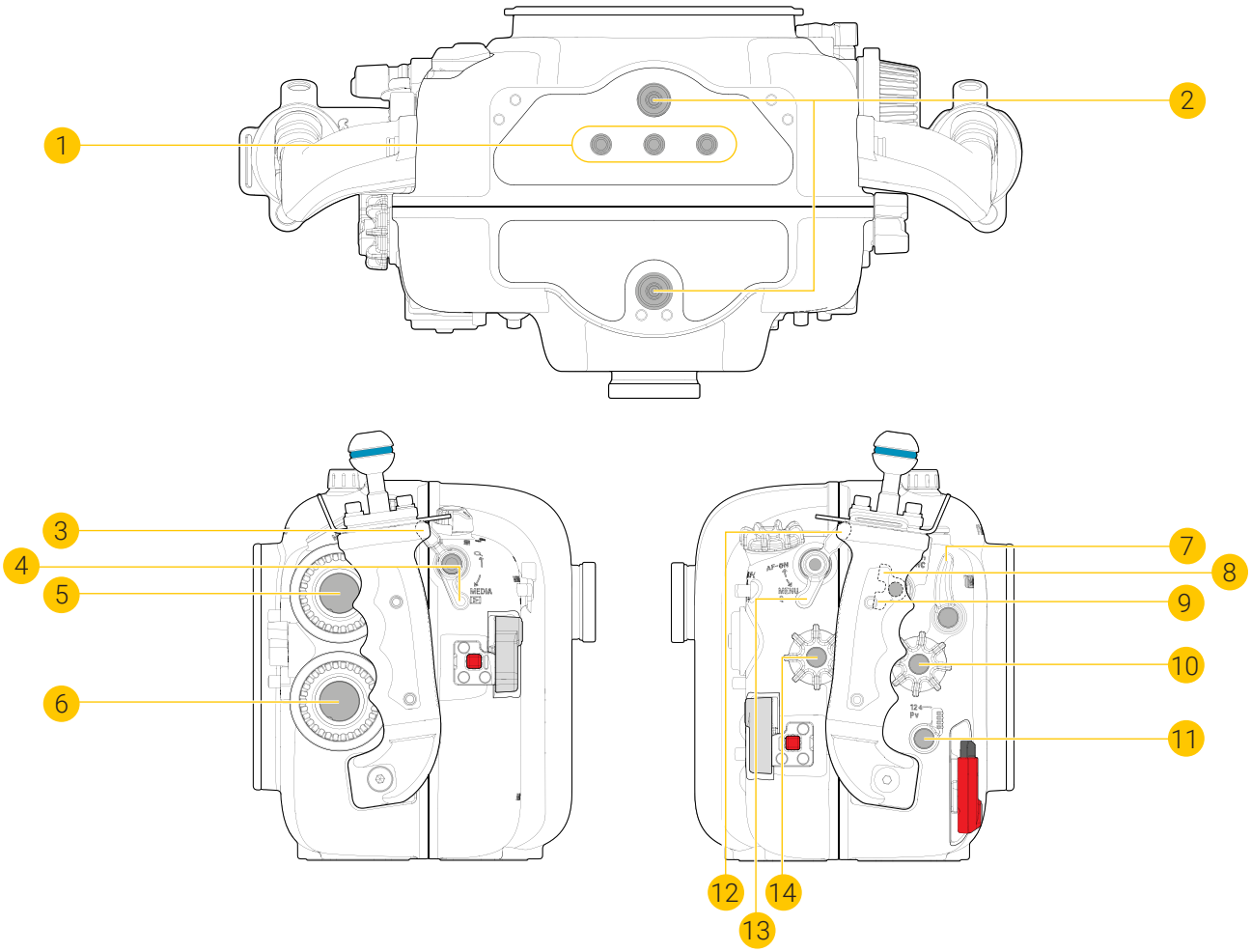
Top + Front Views



1	M24 Accessory port	2	Adaptor Fn dial	3	Power switch
4	Optical cable connector	5	M14 Accessory port	6	M10 thread hole
7	Mode button	8	Lock button	9	8 button
10	M16 Accessory port	11	Quick control dial 2	12	TTL flash on/off
13	15x 1/4-20 UNC holes	14	Accessory mounting ball	15	Port lock safety button
16	Port locking lever	17	Port index mark	18	RF mount lens release button
19	Lens release lever	20	EF mount lens release button		

PART NAMES AND FUNCTIONS

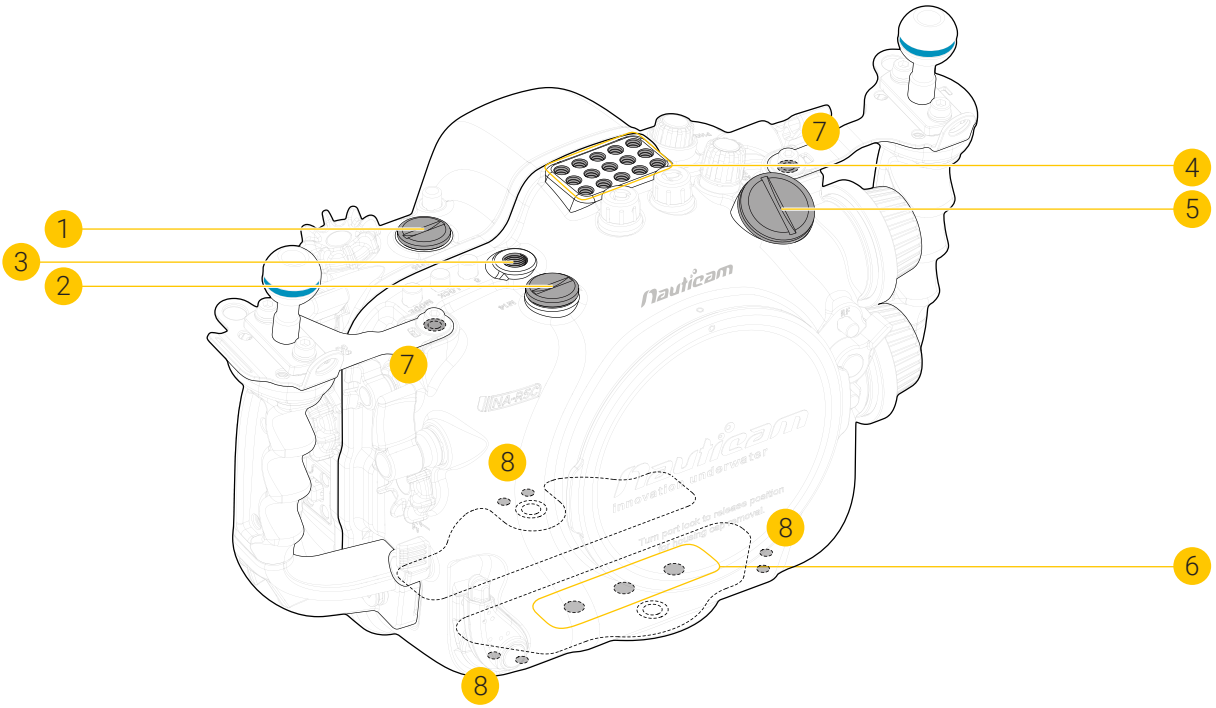
Back + Side Views



1	1/4” Threaded tripod holes		2	Sacrificial zinc anodes	
3	Magnify / reduce lever		4	*	Media lever / Playback lever
5	Zoom/Focus knob		6	Zoom/Focus knob	
7	Shutter release lever		8	*	FUNC lever / M-Fn lever
9	*	REC lever / 10 lever	10	Main dial	
11	*	12 lever / Preview lever	12	AF-ON lever	
13	*	Menu lever / Q lever	14	Quick control dial 1	

**Names and Functions differ in PHOTO and VIDEO modes. Yellow highlighted parts are only for PHOTO mode*

HOUSING MOUNT

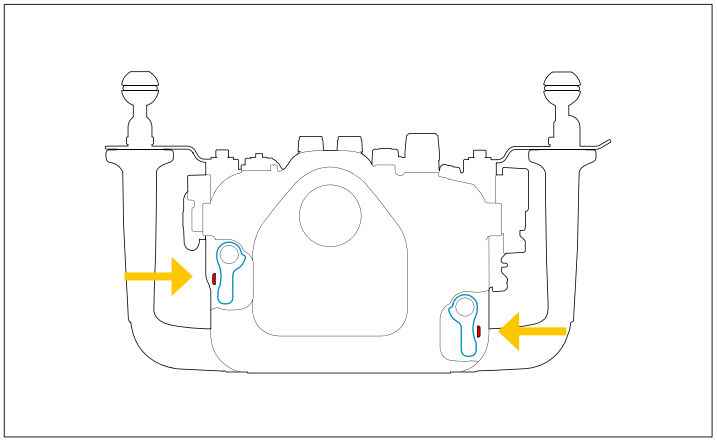


Housing mount		Compatible accessories	
1	M16 Accessory port	25625	M16 Vacuum Valve II (pushbutton release)
2	M14 Accessory port	25020	M14 Nikonos 5-pin Bulkhead with Canon Hotshoe Connection
3	M10 Accessory port	25221 25224	M10 Strobe Mounting Ball M10 Strobe Mounting Ball with Hole
4	15x 1/4-20 UNC holes	16701 17959	Top Handle Housing Mounting Ball with 1/4” Screws
5	M24 Accessory port	25086 25077	M24 Adaptor for HDMI 2.0 Cable M24D1R205-M28A1R170 HDMI 2.0 Cable
6	1/4” -20 mounting threads	17954 17960	Universal Tripod Plate Universal Quadra-Pod Plate
7	M5 Accessory ports	25228	M5 Strobe Mounting Ball
8	M5 Threaded holes	25218	Mounting Ball Set for Tripod Legs

OPENING THE HOUSING

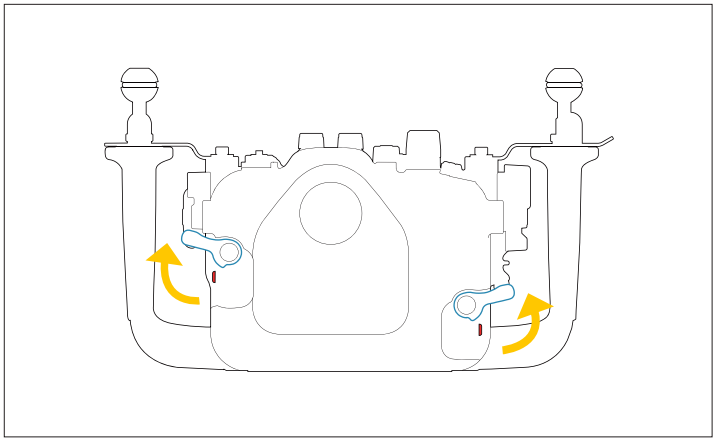
* drawings as illustrations only

1



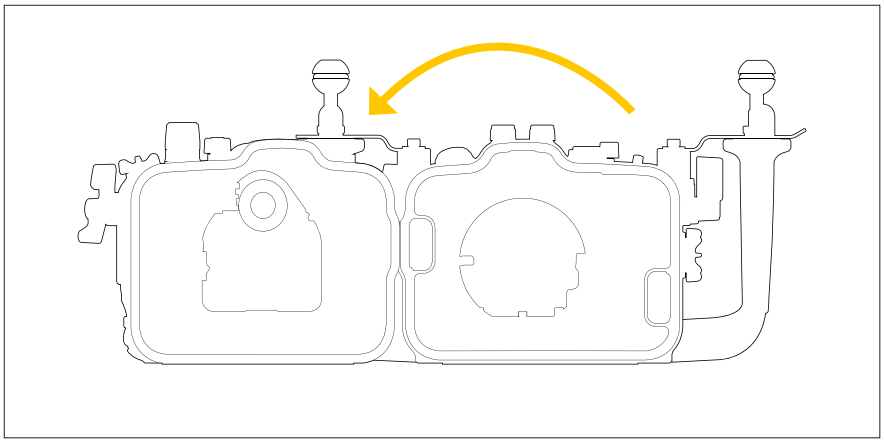
depress housing unlock button

2



turn housing lock outward

3

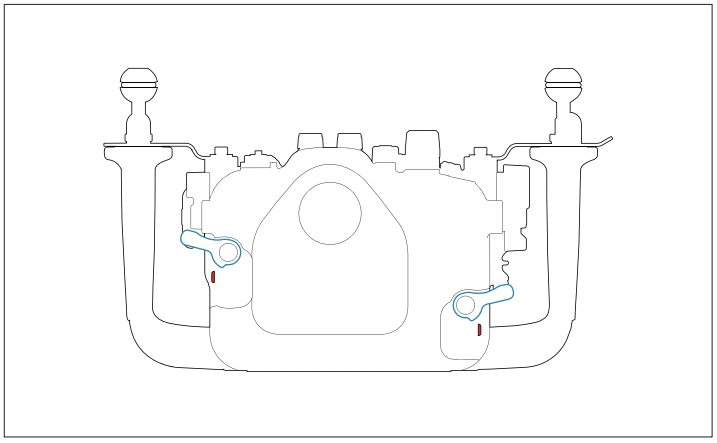


lift up the back housing

CLOSING THE HOUSING

* drawings as illustrations only

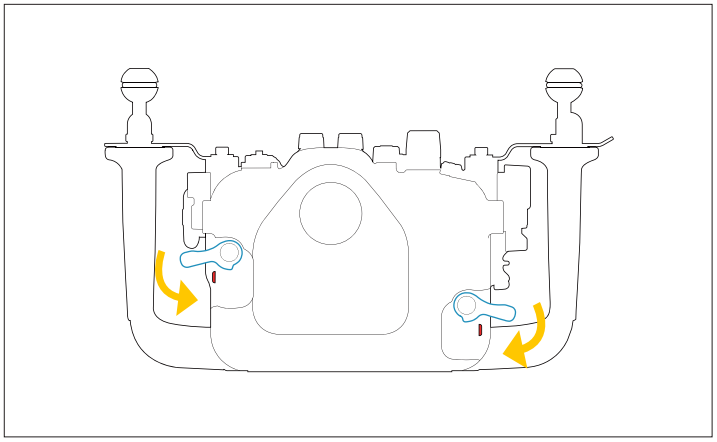
1



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

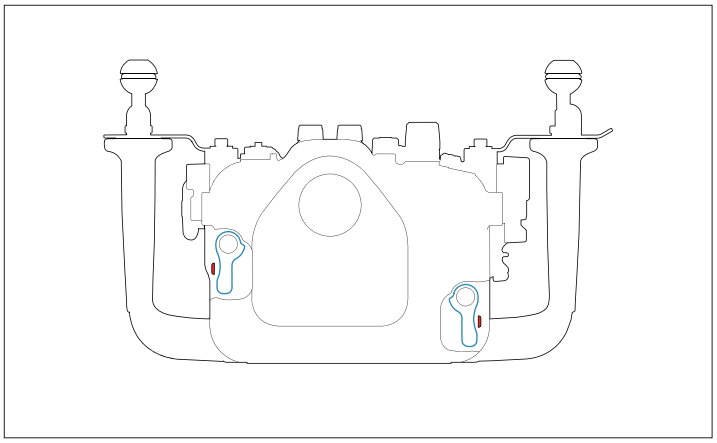
make sure nothing is caught between front and back housing and that they are fully aligned before locking

2



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

3



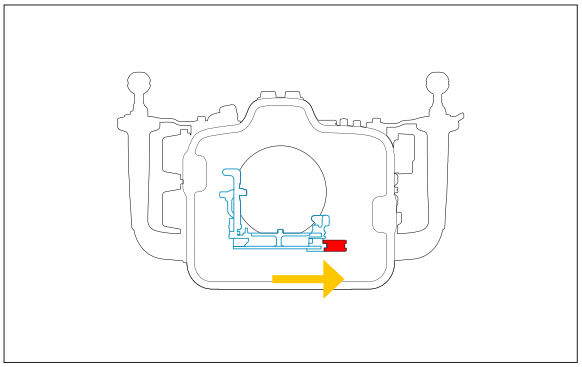
housing locked in place securely

PREPARATION FOR USE

* drawings as illustrations only

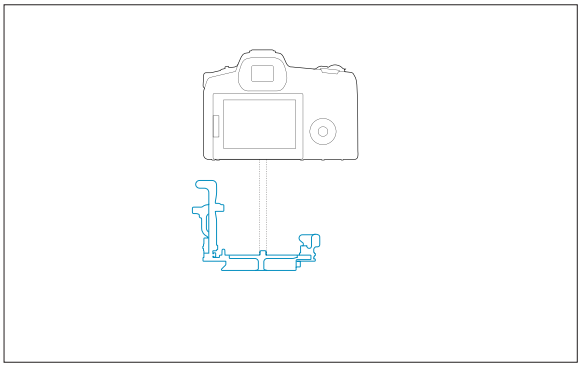
Installing the Camera - housing tray attachment

1



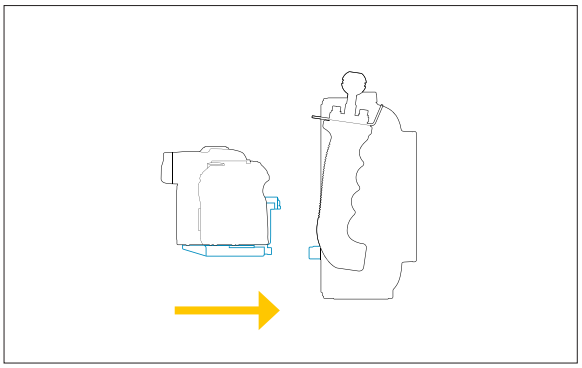
unlock camera tray lever and
remove the tray from the housing

2



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

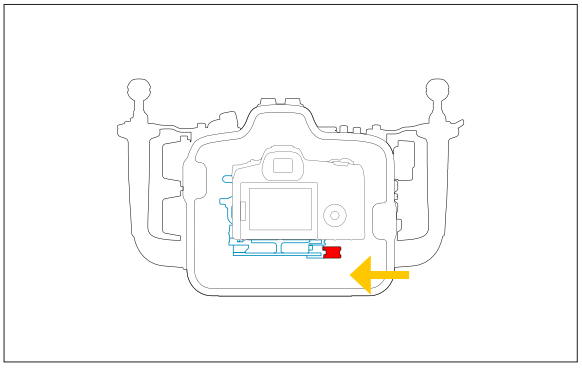
3



**lift up the power switch and adaptor Fn dial each time befroe installing the camera*
turn the lens release lever downwards 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

** gently push the power switch and adaptor Fn dial downward and make sure they are engaged with the lever on the camera*
turn the lens release lever back up and make sure it is engaged with lens gear

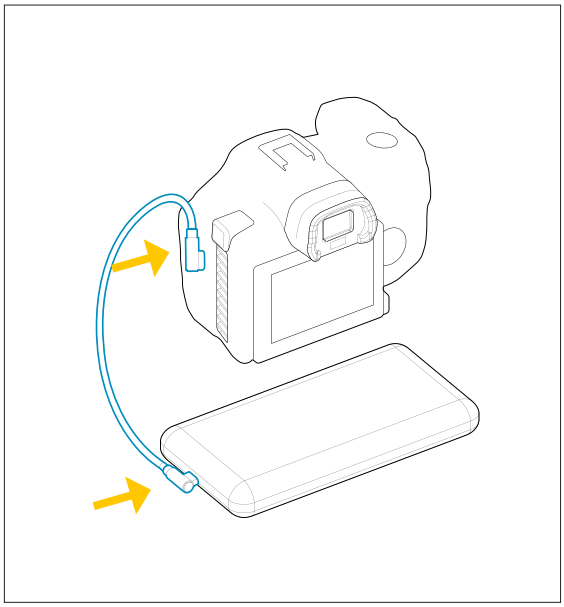
PREPARATION FOR USE

* drawings as illustrations only

Installing the battery

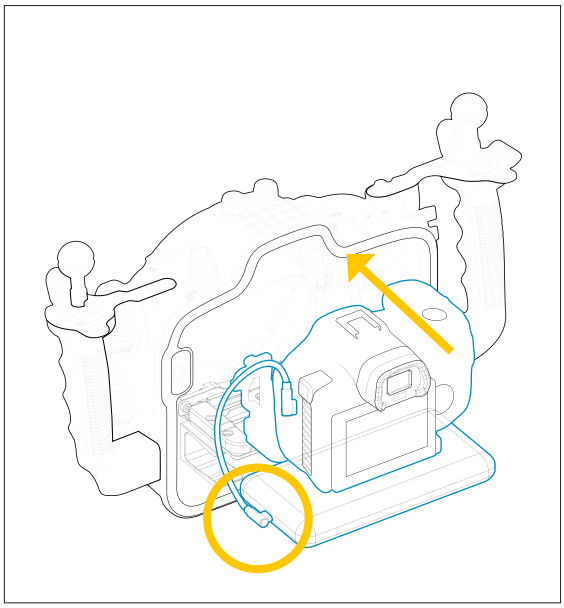
** USB-C elbow adaptor v2 version was shipped from SN A544169, Sep,2022*
** USB-C elbow adaptor is changed to 25303 USB-C to USB-C Right Angled Cable (in 0.25m length) from SN A577782, Feb,2024,*

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

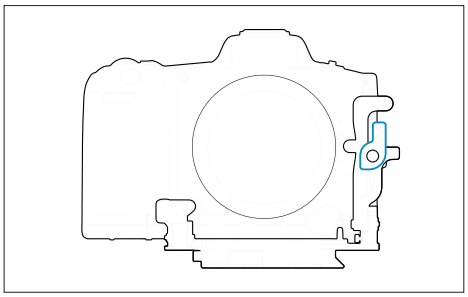
*please refer to page 24 for compatible external battery list

PREPARATION FOR USE

* drawings as illustrations only

Installing the Camera - RF mount/ EF mount lens installment

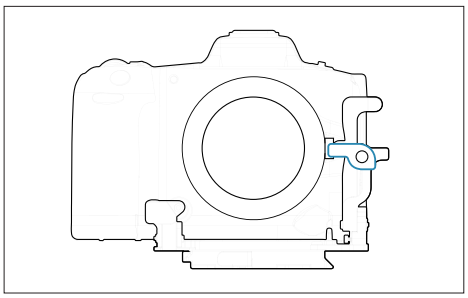
RF mount lens



make sure the small lever is in vertical position before RF mount lens installment

EF mount lens

with Canon EF to EOS R mount adaptor

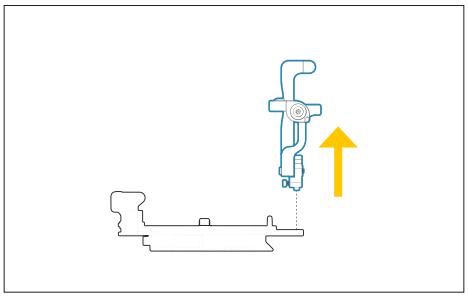


make sure the small lever is in horizontal position before EF mount lens installment

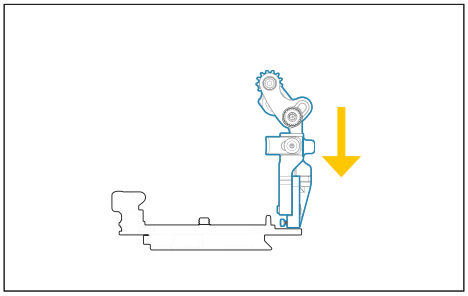
EF mount lens

with Canon EF to EOS R control ring adaptor / Drop-In Filter Mount Adapter EF-EOS R

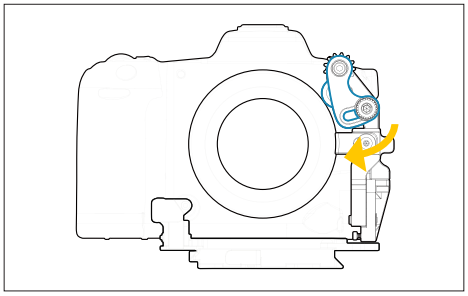
* 16703 Control Kit is required for this setup



make sure the small lever is in horizontal position before EF mount lens installment



make sure the small lever is in horizontal position before EF mount lens installment



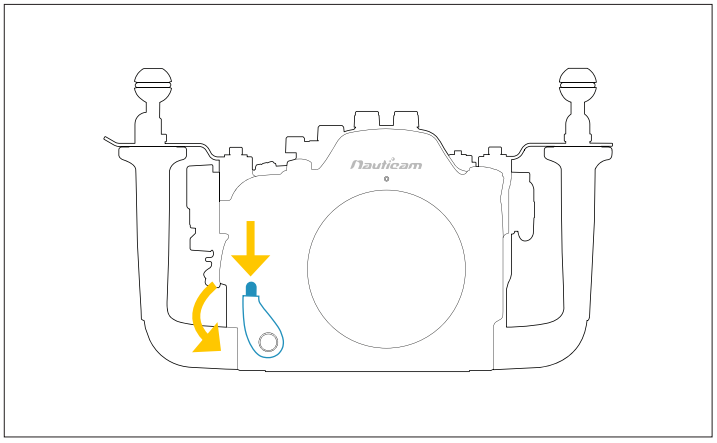
rotate the small lever and push the small gear engagement knob to the left to make sure the control kit is engaged with the adaptor for full function

PREPARATION FOR USE

* drawings as illustrations only

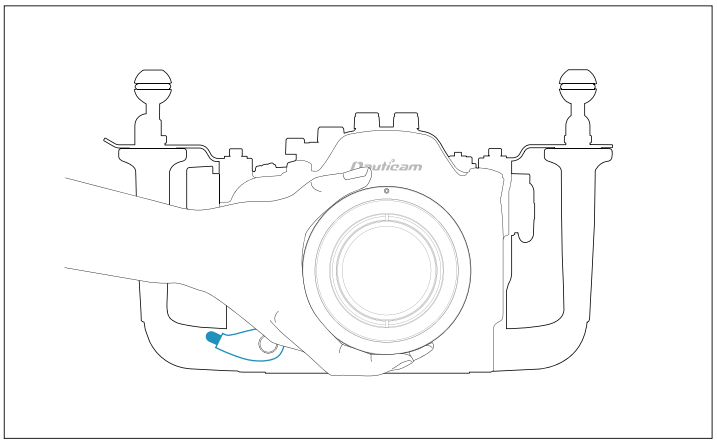
Port Mounting

1



depress safety button and rotate anti-clockwise

2

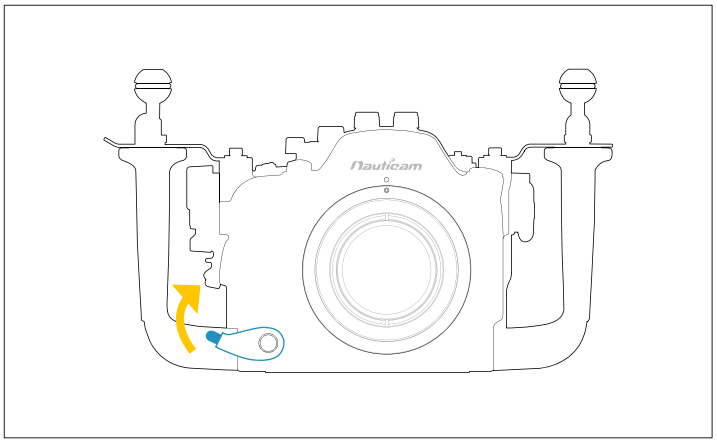


lubricant the port O-ring before mounting

align index mark

push port assembly straight in

3

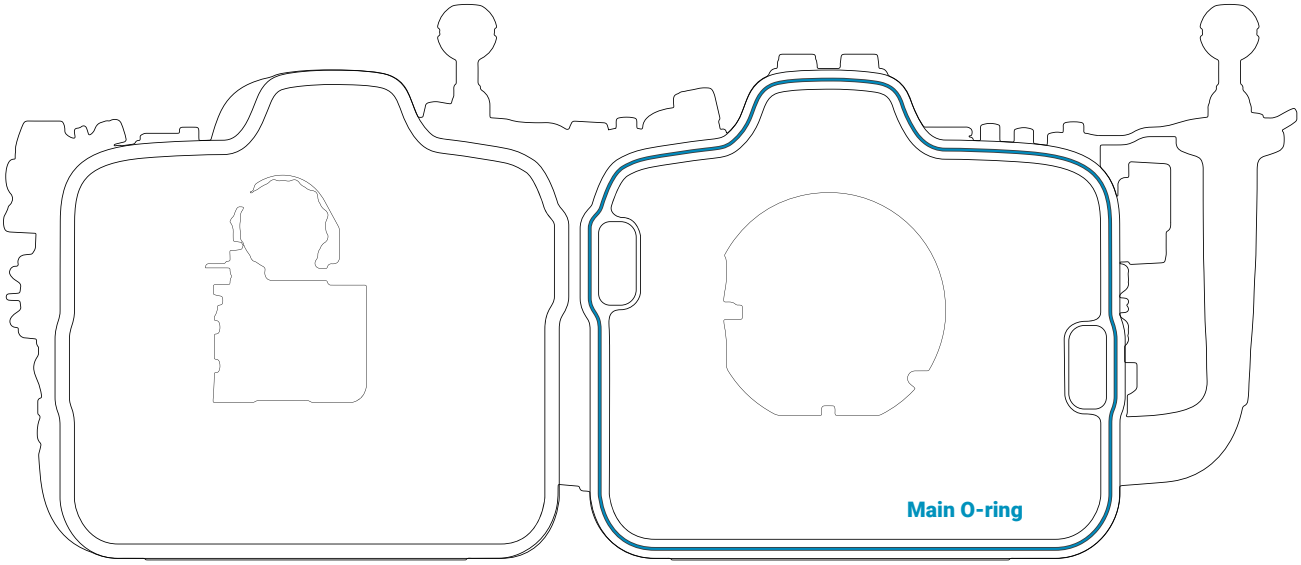


rotate locking lever clockwise to lock

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

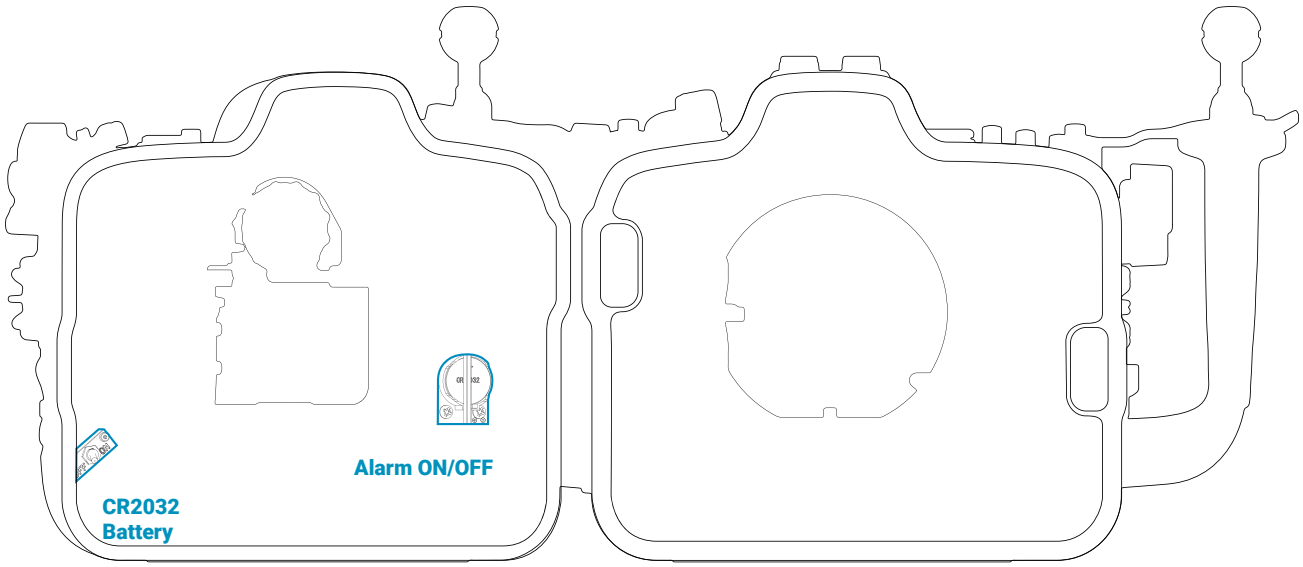
4

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

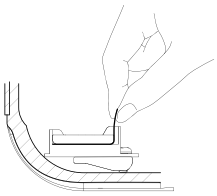
PREPARATION FOR USE

* drawings as illustrations only

Setting up moisture alarm

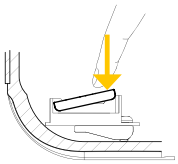


1



remove battery insulation film

2

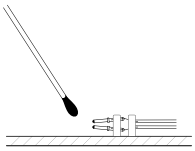


press the battery down until it click into place

3

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

4



test the alarm
- connect the wires with a dampened cotton bud; the alarm will give a repeating 'beep' and the mositure alarm window will flash RED

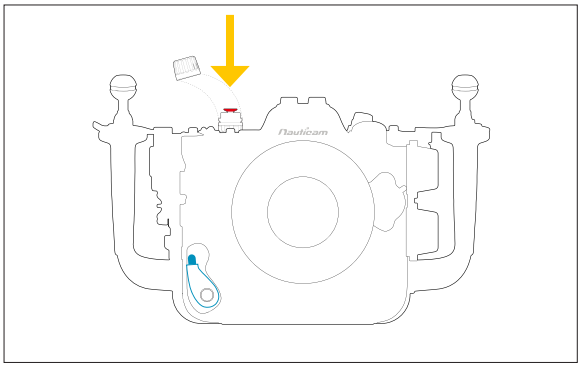
***** *please contact our authorized service centers if testing fails*
**please refer to page 16 for complete vacuum system guidance*

PREPARATION FOR USE

* drawings as illustrations only

Changing lens/port without opening the housing

1

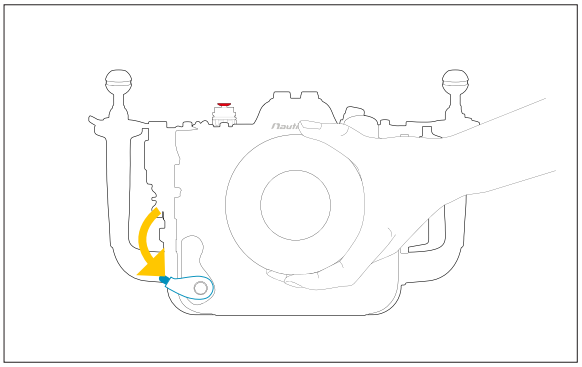


If using with vacuum valve :

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

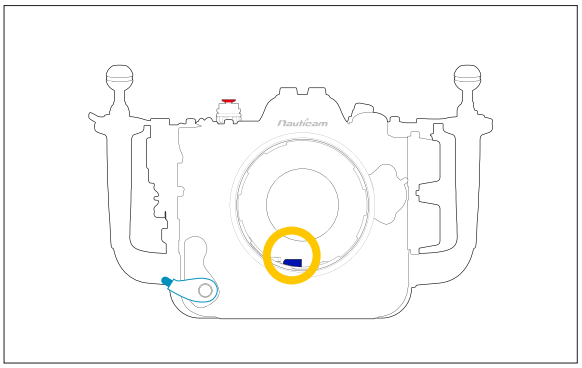
If using without vacuum valve, please follow from step 2

2



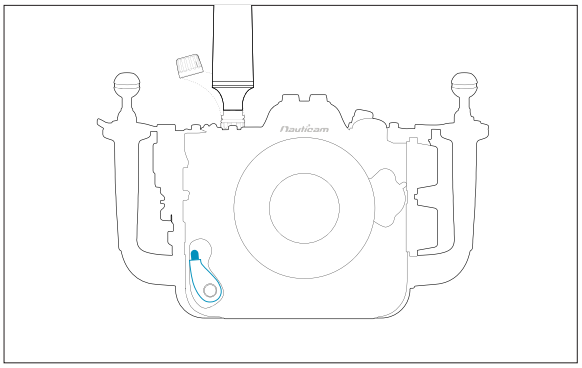
unlock port lock and remove port assembly

3



press the blue button to reset vacuum alarm before replacing port

4



reset vacuum valve system using hand pump then close the cap

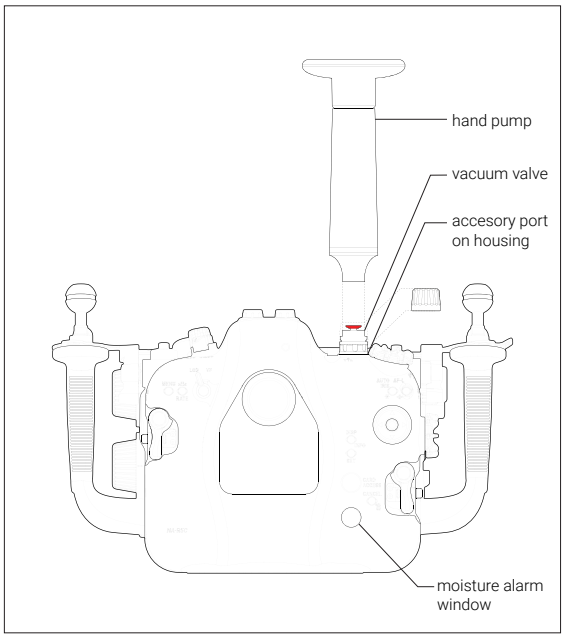
***** *please refer to page 17 on complete vacuum system guidance*

OPTIONAL ACCESSORIES

* drawings as illustrations only

Vacuum valve system

1



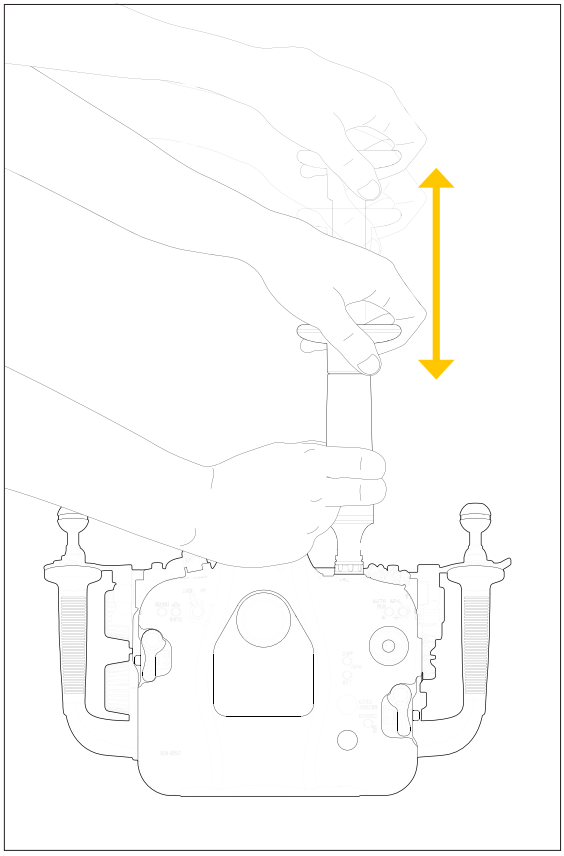
remove the plug of M16 accessory port from the housing

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 pumpng
Steady Green	target vacuum level is reached
Flashing Yellow	vacuum level is dropping
Flashing Red	vacuum is totally lost, circuit stalled untill device is switched off
Alternating Blue and Red	vacuum is totally lost, circuit stalled untill device is switched off
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*

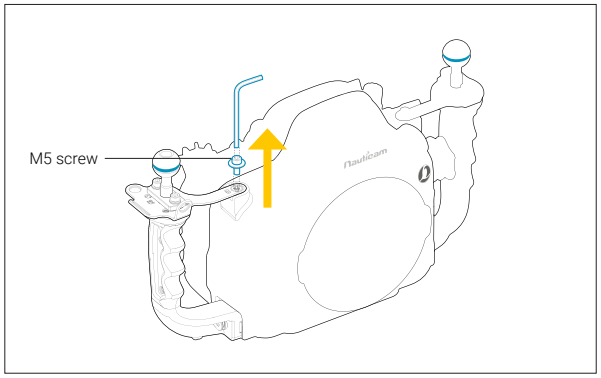
OPTIONAL ACCESSORIES

* drawings as illustrations only

Strobe Mounting Ball

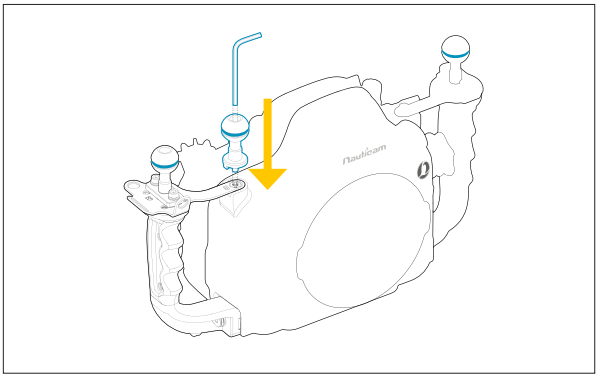
Installing M5 Strobe Mounting Ball - RECOMMENDED

1

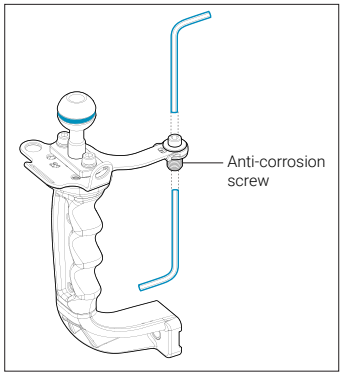


remove M5 screw with the allen key provided in the housing package

2

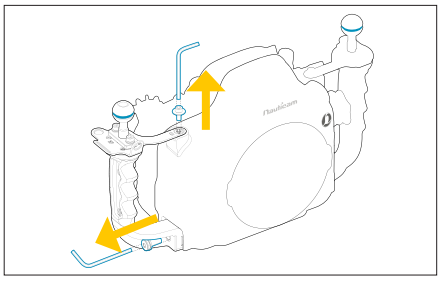


screw #25228 M5 Strobe mounting ball directing onto the M5 thread



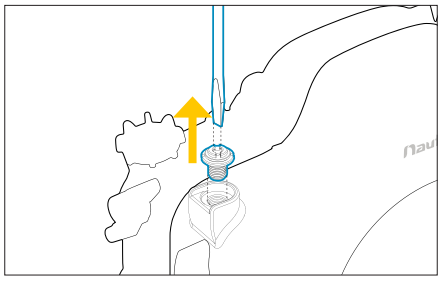
** the anti-corrosion screw may also be unscrewed while removing M5 screw, if this is happening, you can seperate the parts as shown in the diagram on the left*

Installing M10 Strobe Mounting Ball - Optional



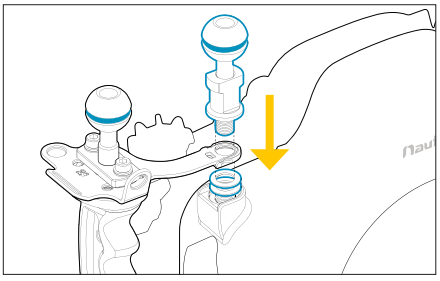
1

remove M5 screw and housing handle screw on the side



2

take out the handle and remove the anti-corrosion screw



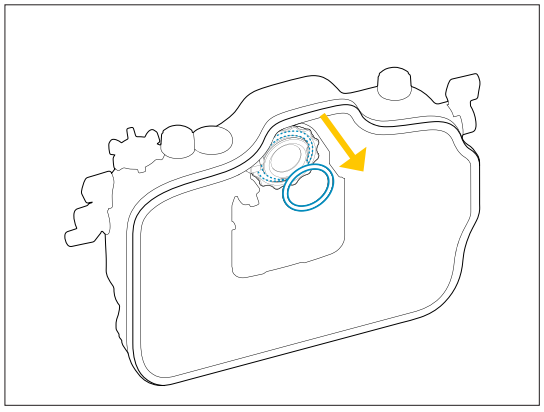
3

screw the M10 strobe mounting ball onto the housing as shown

OPTIONAL ACCESSORIES

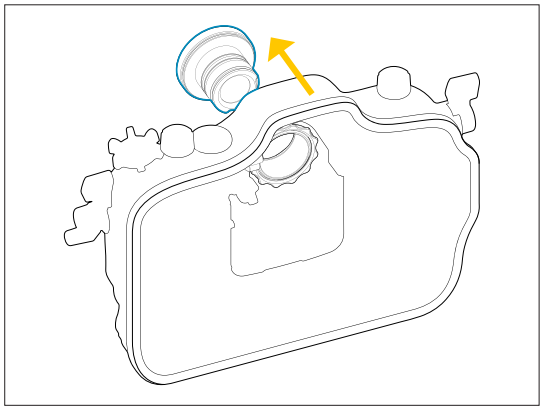
Installing Viewfinder

1



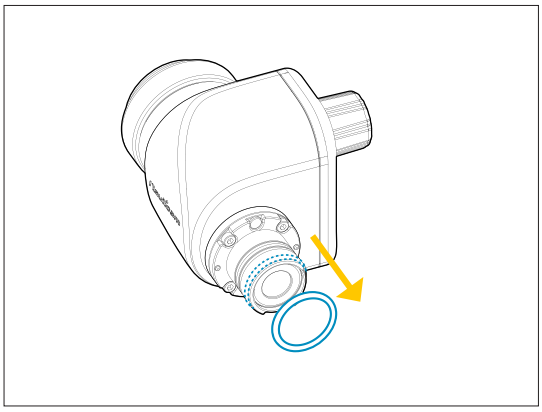
firstly remove the pre-installed 0.66x viewfinder from the housing by removing the retainer o-ring inside rear housing

2



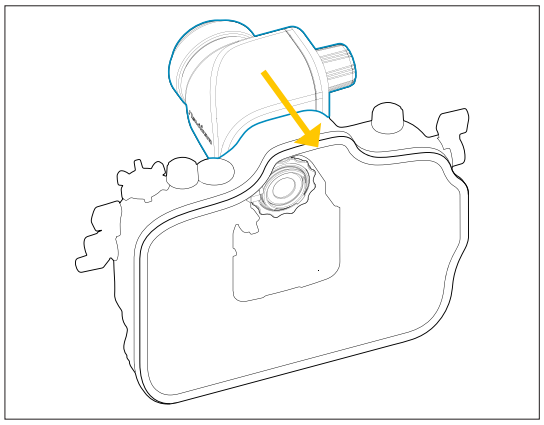
gently push the 0.66x viewfinder from the inside of the housing

3



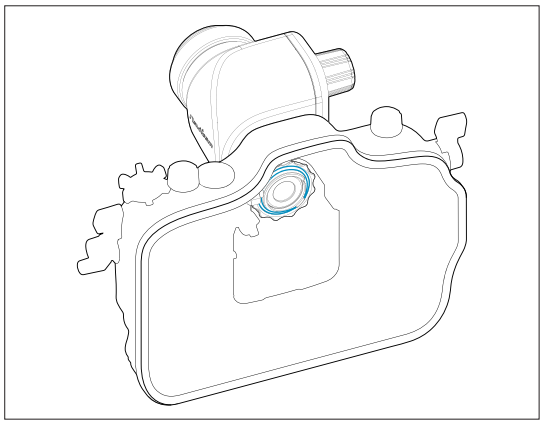
remove the retainer o-ring from the viewfinder

4



align the viewfinder alignment pins with the LCD display window and push the viewfinder into the housing until it cannot go in any further

5



lightly lubricate the retainer o-ring and place it back from inside the housing

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 recommand 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 recommand 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	232 mm
Depth	180 mm

Weight

In air	4.30 kg
Buoyancy in water	positive 0.30 kg (w/ camera & battery & 2000mah power bank)

Depth

Rating	100 m

Port specifications

Port mount	N 120 Port System N120 Cinema EF-mount N120 Canon EF-mount N120 Canon RF-mount
Port accessories	1 x M24, 1 x M16, 1 x M14, 1 x M10

Optional accessories

25624 M14 Vacuum Valve II (Pushbutton Release)
25625 M16 Vacuum Valve II (Pushbutton Release)
28130 Hand Strap for Handle Size S
16703 Control Kit for NA-R5C to use with Drop-In Filter Mount Adapter EF-EOS R
16232 0.25kg Trim Weights for 16227 (4pcs)
16233 0.5kg Trim Weights for 16227 (4pcs)
16701 Top Handle
25221 M10 Strobe Mounting Ball for Housing
17959 Housing Mounting Ball with 1/4" Screws
25218 Mounting Ball Set for Tripod

Buoyancy options

72216 Ø70x200mm Carbon Fibre Aluminium Float Arm (Buoyancy 370g)
72217 Ø70x250mm Carbon Fibre Aluminium Float Arm (Buoyancy 520g)
72218 Ø70x300mm Carbon Fibre Aluminium Float Arm (Buoyancy 670g)
72219 Ø90x170mm Carbon Fibre Aluminium Float Arm (Buoyancy 450g)
72220 Ø90x220mm Carbon Fibre Aluminium Float Arm (Buoyancy 720g)
72233 Single Bayonet Holder II for Ø70 Float Arm
72234 Double Bayonet Holder II for Ø70 Float Arm
72243 Single Bayonet Holder II for Ø90 Float Arm
72244 Double Bayonet Holder II for Ø90 Float Arm
83252 Single Bayonet Holder for Arms
83253 Double Bayonet Holder for Arms

HDMI CONNECTION, MONITOR & ETHERNET OPTIONS

HDMI connectivity required accessories (2.0)

25086 M24 Adaptor for HDMI 2.0 Cable
25077 M24D1R205-M28A1R170 HDMI 2.0 Cable

HDMI connectivity required accessories (1.4)

25033 Standard HDMI Bulkhead with M16 Thread
25081 M24 -16 Step Down Adaptor
25076 HDMI (D-D) 1.4 Cable in 200mm Length

***** *25033 is included in monitor housing packaging*

Monitor options (2.0)

17922 Nauticam Atomos Ninja V Housing for Atomos Ninja V 5”
17922S Nauticam Atomos Ninja V-S Housing for Atomos Ninja V 5” with Atomos AtomX SDI Module

Monitor options (1.4)

17923 NA-Shinobi-H Housing for Atomos Shinobi 5.2" 4K HDMI Monitor
17920 NA-502B-H Housing for SmallHD 502 Bright Monitor
17925 NA-503-H Housing for SmallHD 503 UltraBright On-Camera Monitor

Optional accessories for monitor mounting system

17951 Nauticam Monitor Housing Mounting System
17957 Nauticam Monitor Housing Mounting Adaptor *****compatible from SN A439736.
17954 Tripof Plate
17960 Universal Quadra-pod Plate

WET LENS COMPATIBILITY

Macro	81201	Super Macro Convertor 1 (SMC-1, 2.3x magnification)
	81202	Super Macro Convertor 2 (SMC-2, 4.0x magnification)
Macro to Wideangle	86201	Macro to Wideangle Lens 1 (MWL-1, 150 deg. FOV with full frame 60mm macro lens)
	87302	EMWL Set#2 (incl. focusing unit #2, 150mm relay lens & 3 objective lenses)
	87303	EMWL Set#3 (incl. focusing unit #3, 150mm relay lens & 3 objective lenses)
Wideangle	85201	0.36x Wide Angle Conversion Port with Aluminium Float Collar (incl. N120 to N100 port adaptor)
	85202	0.36x Wide Angle Conversion Port Set with Aluminium Float Collar for Sigma 18-35mm F1.8
	85204	0.57x Wide Angle Conversion Port 2 with Aluminium Float Collar (compatible with 14mm lenses)

Optional wet lens accessories

25101 M67 Flip Diopter Holder for M67 Macro Ports
25108 M67 Double Flip Holder for M67 Macro Ports
83250 M67 to Bayonet Mount Converter II
83214 Bayonet Mount Adaptor for SMC/CMC
87501 Flip Holder for EMWL
87512 Shade for 130° Objective Lens
87518 Strobe Mounting Brackets for EMWL Relay Lens
87517 EMWL Bayonet Holder for Ø90 Float Arm

**please refer to Nauticam port charts for more setup information.*

FLASH TRIGGERING

Optical TTL

26321 TTL Flash Trigger for Canon
26216 Universal Optical Fiber Cable

Electronic Strobe Connection

26301 Flash Trigger for Canon
25020 Canon Hotshoe Plug to M14 Bulkhead (X and ground connection only)

VIEWFINDER

32212 Nauticam Full Frame Straight Viewfinder 40°/ 0.8:1
32214 Nauticam Full Frame Angle Viewinder 40°/ 0.8:1
32201 Nauticam 180˚ Straight Viewfinder
32203 Nauticam 45˚ Viewfinder

EXTERNAL BATTERY

Recommended External Batteries

Anker PowerCore III 19,200mAh Huge Cell Capacity 45W Power Delivery Portable Charger	Dimensions : 169x79x22.4mm Weight : 425g
ZMI 20000mah 65W PD Battery	Dimensions: 160.4x81.8x21.5mm Weight : 456g

* The maximum size of the power banks supported by V1 version (before SN A577782) adaptor is 175 x 82 x 24mm

* The maximum size of the power banks supported by V2 version (after SN A577782) adaptor is 185 x 82 x 24mm

Accessories

25303 USB-C to USB-C Right Angled Cable (in 0.25m length)

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