September, 2024

NA - R5II

For Canon R5II Camera

PN 17341

User Manual

Housing

FF- MIL

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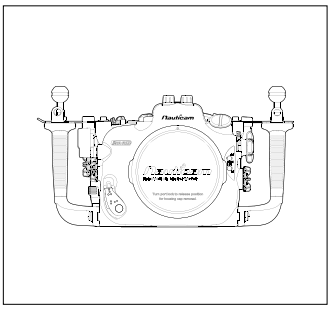
INTRODUCTION

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.

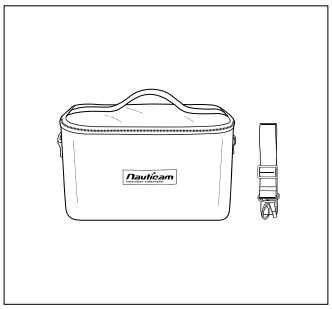
PACKAGE CONTENTS

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.

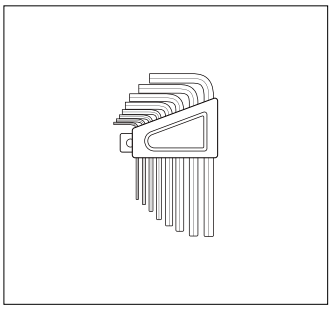


NA-R5II

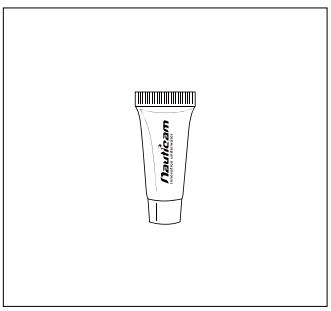
(2 x Handles with Mounting Balls, 1 x Housing Cap,
2 x Optical Fiber Mount Caps, 2 x Stainless Steel Handle Brackets)



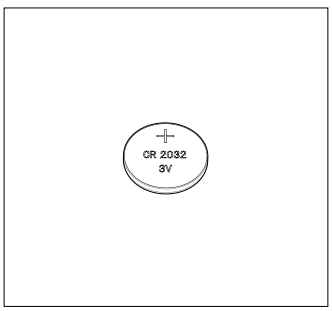
Padded Travel Case



Allen key set

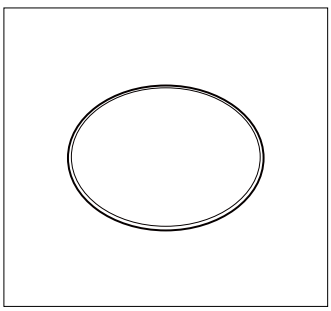


Lubricant



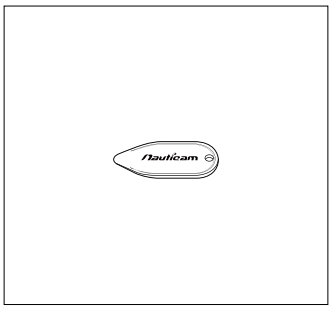
Panasonic CR2032 Battery

(pre-installed for Moisture Alarm)



Spare Main O-ring
#90121

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



O-ring Remover

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

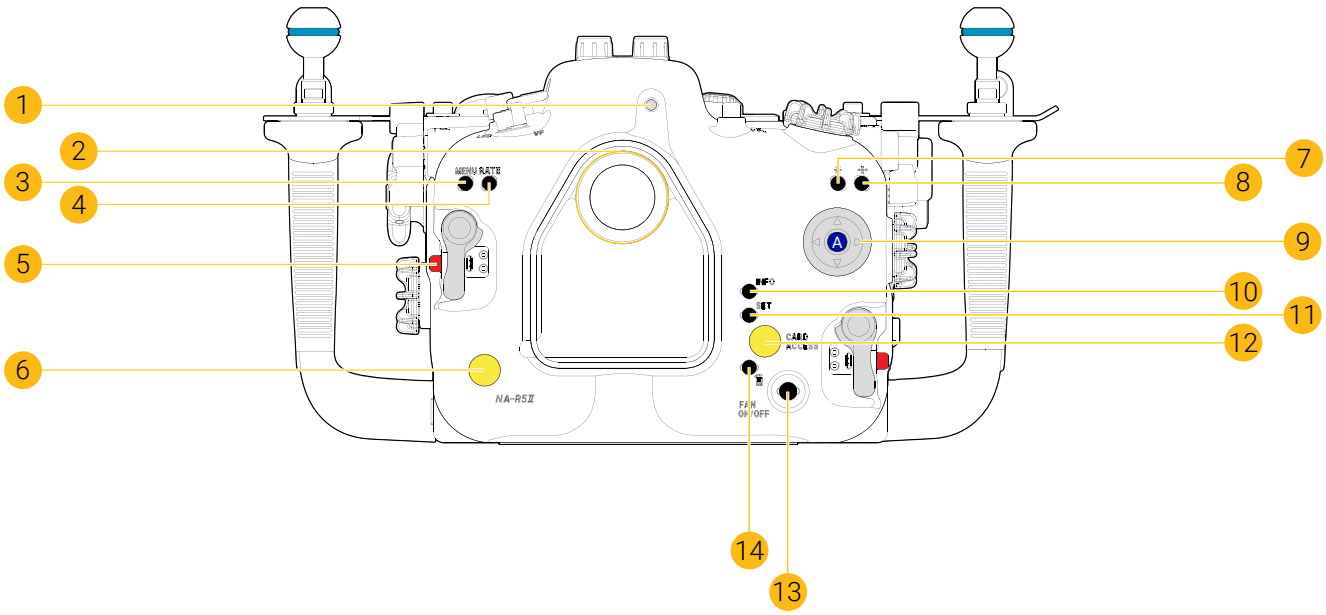
Prevent any sand or dust or water penetration inside the housing. Be extra careful when changing lens and inserting or removing the camera.

12

This product is not 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

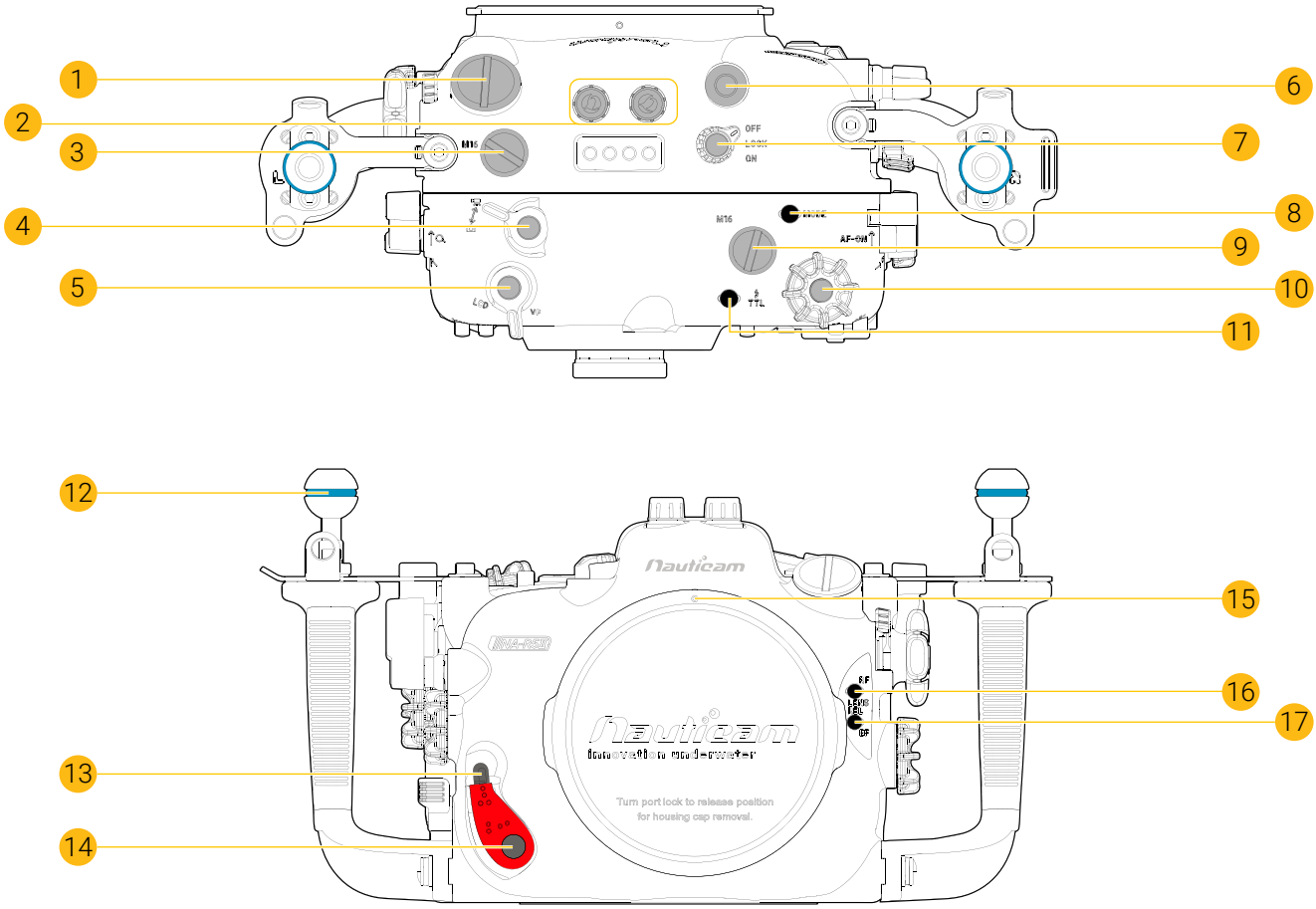
Rear View



1	TTL Indicator window	2	Viewfinder
3	Menu button	4	Rating/Voice memo button
5	Housing unlock button	6	Moisture alarm window
7	AE lock button	8	AF point selection button
9	Multi selector	10	Info button
11	Set button	12	Access lamp
13	Fan ON/OFF button	14	Delete button
A	Menu/Set button		

PART NAMES AND FUNCTIONS

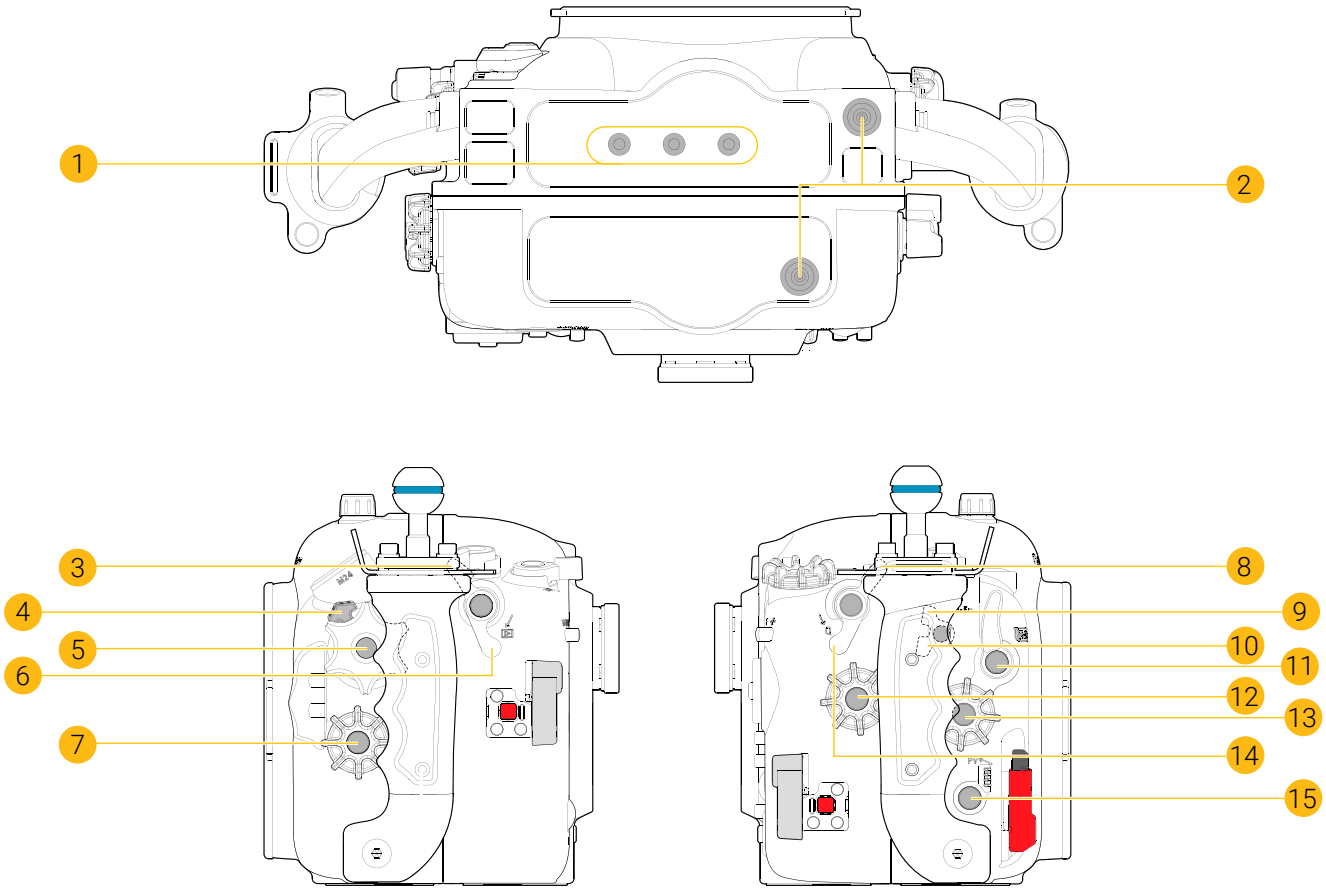
Top + Front Views



1	M24 Accessory port	2	Optical fiber cable connection
3	M16 Accessory port	4	Still photo / movie recording switch
5	LCD/Viewfinder lever	6	M10 Accessory port
7	Main switch	8	Mode dial
9	M16 Accessory port	10	Quick control dial 2
11	TTL flash on/off	12	Accessory mounting ball
13	Port lock safety button	14	Port locking lever
15	Port index mark	16	RF mount lens release button
17	EF mount lens release button		

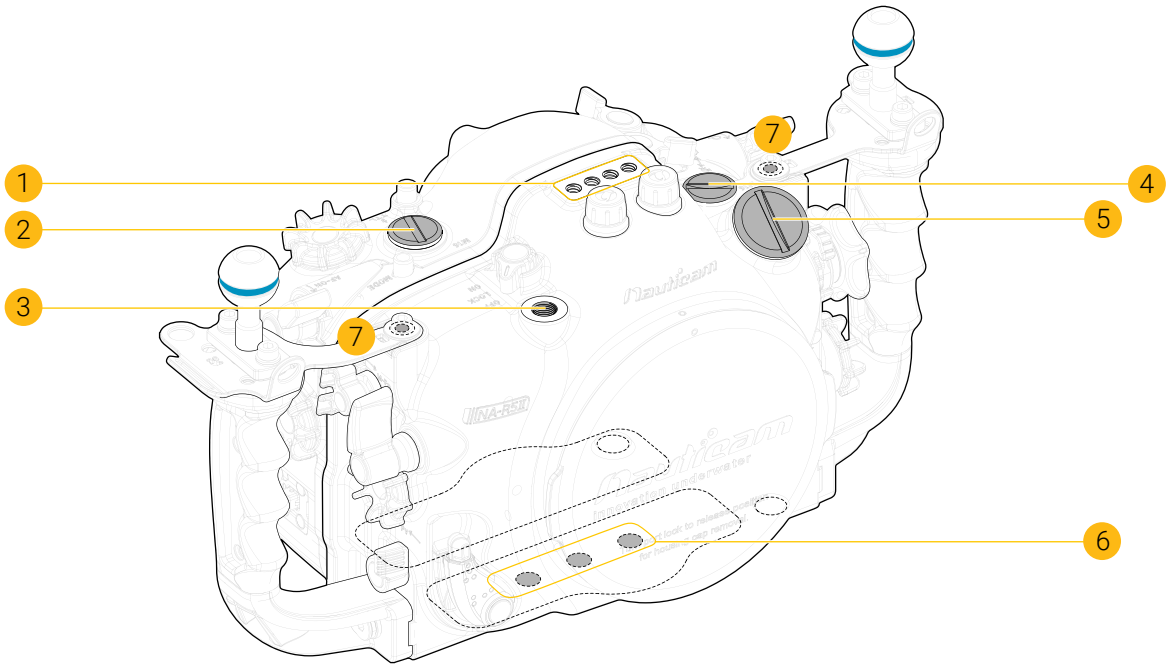
PART NAMES AND FUNCTIONS

Back + Side Views



1	1/4” Threaded tripod holes	2	Sacrificial zinc anodes
3	Playback lever	4	Zoom/Focus knob release
5	Zoom/Focus knob	6	Display lever
7	Control ring mount adaptor Fn	8	AF-ON lever
9	M-Fn lever	10	REC lever
11	Shutter release lever	12	Quick control dial 1
13	Main dial	14	Quick control lever
15	Preview lever		

HOUSING MOUNT

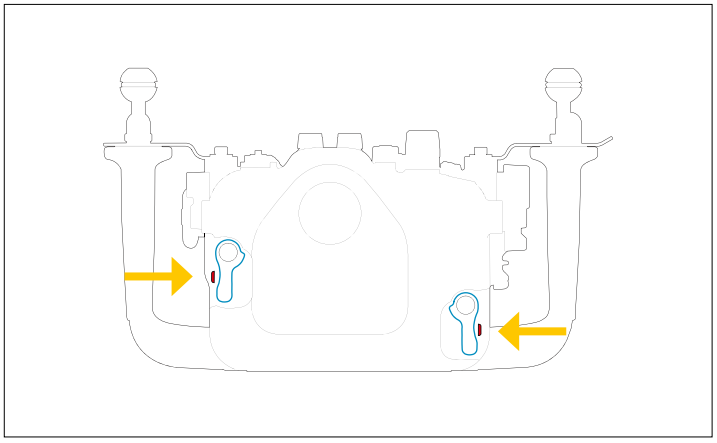


Housing mount		Compatible accessories		
1	1/4” -20 mounting threads	17959	Housing Mounting ball with 1/4” screws	
2	M16 Accessory port	25625	M16 Vacuum Valve II (Optional)	
3	M10 Accessory port	25221	M10 Strobe mounting ball	
		25224	M10 Strobe mounting ball with hole	
4	M16 Accessory port	25017	M14 6 pin bulkhead for Canon system (incl.M16-M14 adaptor)	*Electrical Triggering*
		25020	Canon hotshoe plug to a M14 Nikonos bulkhead (incl.M16-M14 adaptor)	
5	M24 Accessory port	25086	M24 adaptor for HDMI 2.0 cable	*HDMI 2.0*
		25099	HDMI 2.0 cable	
		25033	Standard HDMI bulkhead with M16 thread	*HDMI 1.4*
		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*	
6	1/4” -20 mounting threads	17954	Universal tripod plate	
		17960	Universal quadra-pod plate	
7	M5 Threaded holes	25228	M5 Strobe mounting ball	

OPENING THE HOUSING

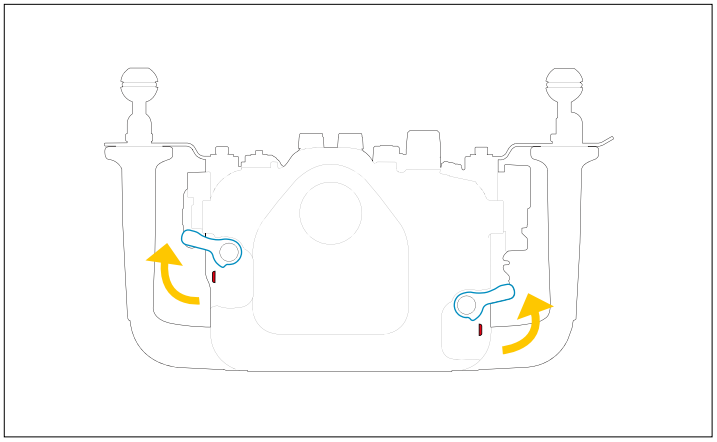
* drawings as illustrations only

1



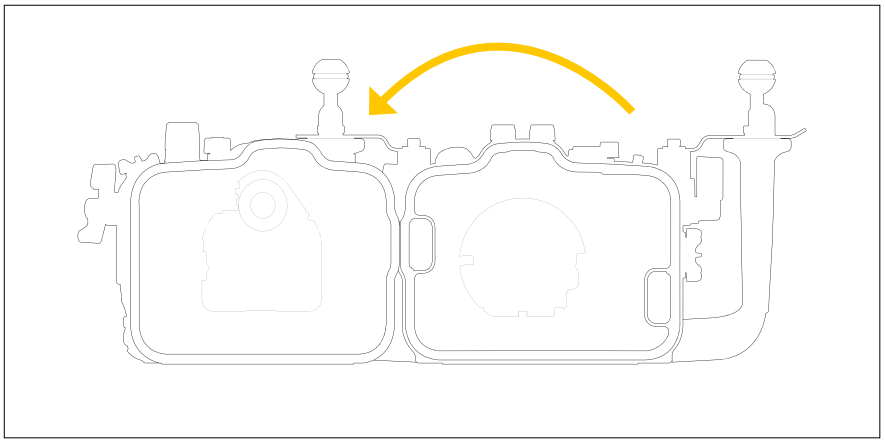
depress housing unlock button

2



turn housing lock outward

3

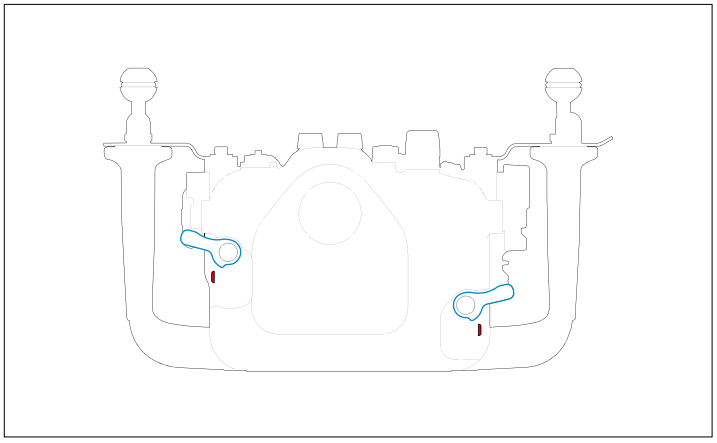


lift up the back housing

CLOSING THE HOUSING

* drawings as illustrations only

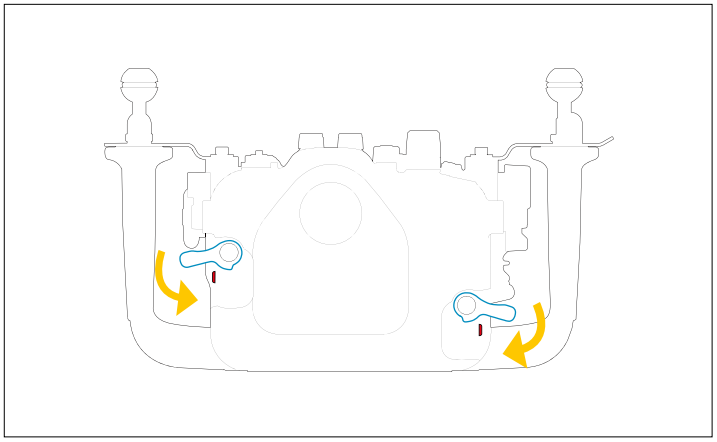
1



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

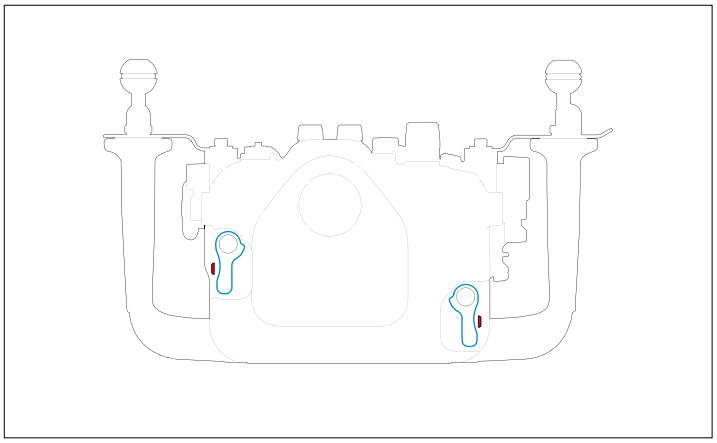
make sure nothing is caught between front and back housing and that they are fully aligned before locking

2



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

3



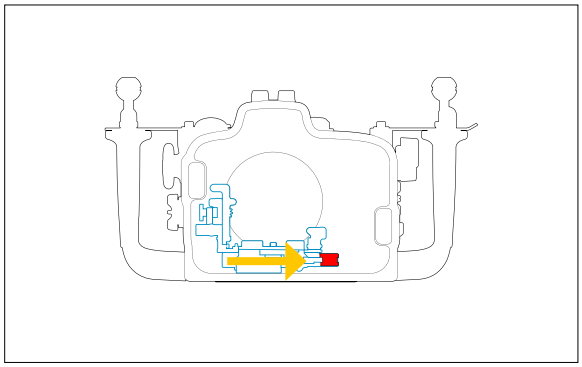
housing locked in place securely

PREPARATION FOR USE

* drawings as illustrations only

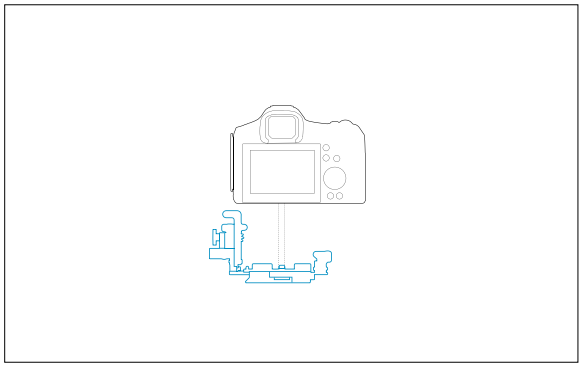
Installing the Camera - housing tray attachment

1



unlock camera tray lever and remove the tray from the housing

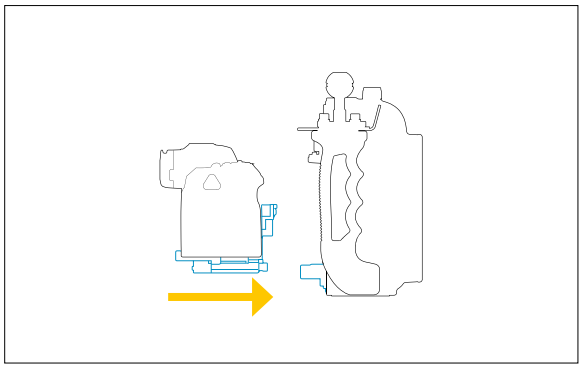
2



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

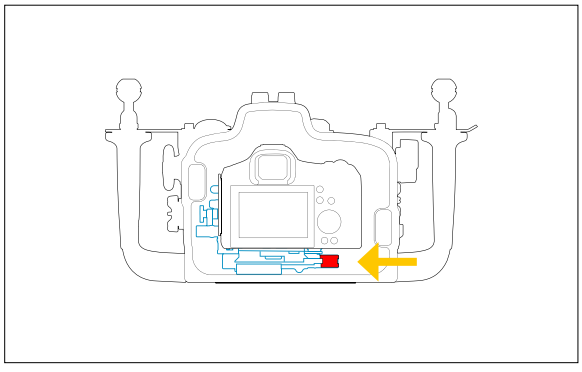
3



** pull out the zoom/focus knob if installing the camera with lens and gear attached*
** please refer to page 11 for lens installment before sliding in the camera*

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

4

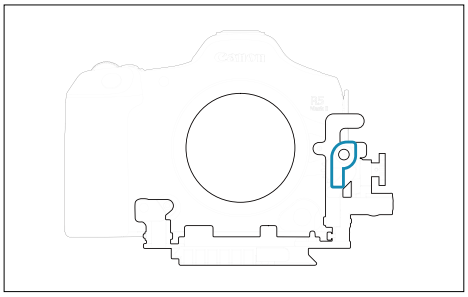


lock camera tray

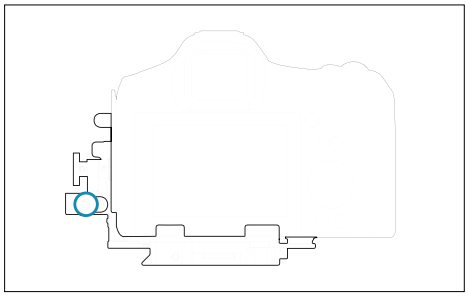
** place the zoom/focus knob in place and make sure it is engaged with lens gear*

PREPARATION FOR USE

RF mount lens



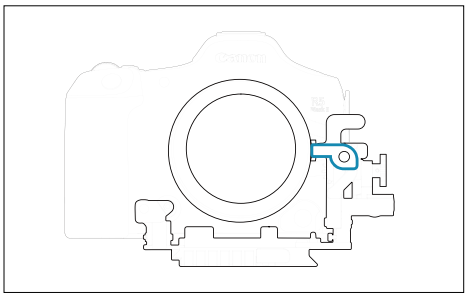
make sure the small lever is in vertical position before RF mount lens installment



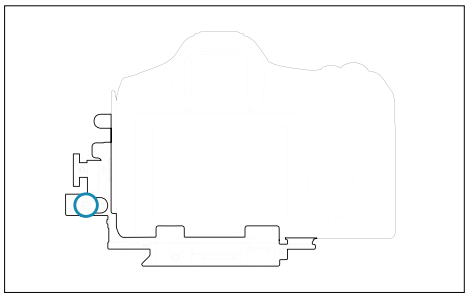
make sure the small gear engagement knob on housing tray is on the left

EF mount lens

(w/ mount adaptor EF-R)



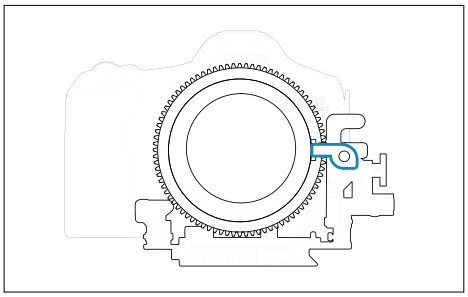
make sure the small lever is in horizontal position before EF mount lens installment



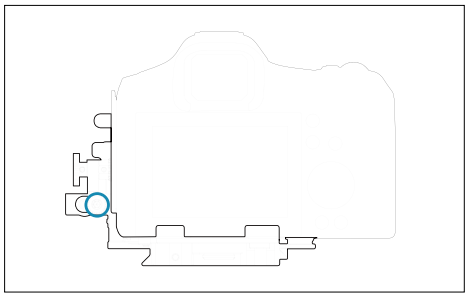
make sure the small gear engagement knob on housing tray is on the left

EF mount lens

(w/ control ring mount adaptor EF-R)
* 19561 gear is required for this setup



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

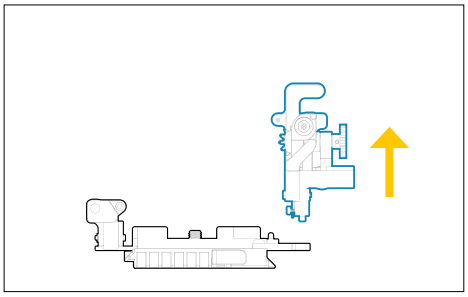


make sure the small gear engagement knob on housing tray is on the right

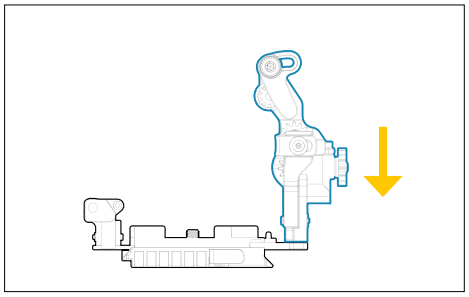
PREPARATION FOR USE

EF mount lens

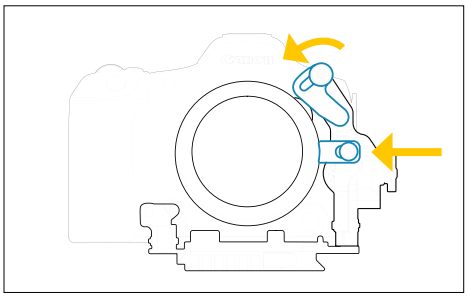
with Canon Drop-in filter mount adpator EF-EOS R with variable ND filters



remove the original control kit from the camera tray



replace it with 26320 control kit for Canon drop-in filter mount adaptor



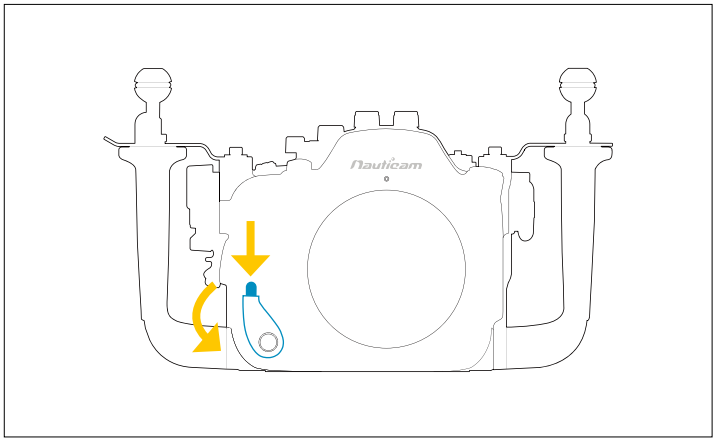
rotate the small lever and push the small gear engagement knob to the left to make sure the control kit is engaged with the adaptor for full function

PREPARATION FOR USE

* drawings as illustrations only

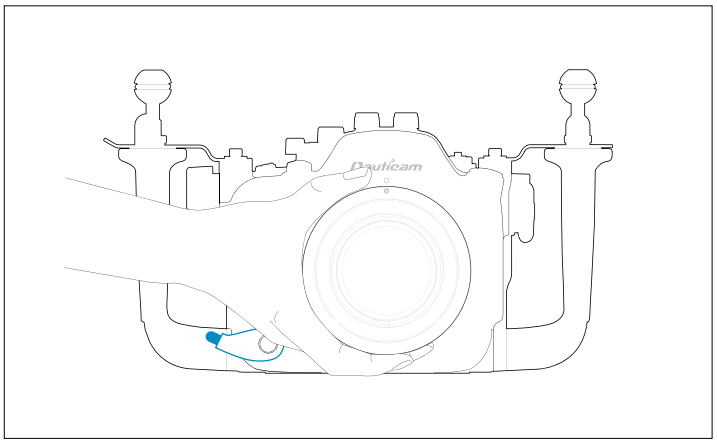
Port Mounting

1



depress safety button and rotate anti-clockwise

2

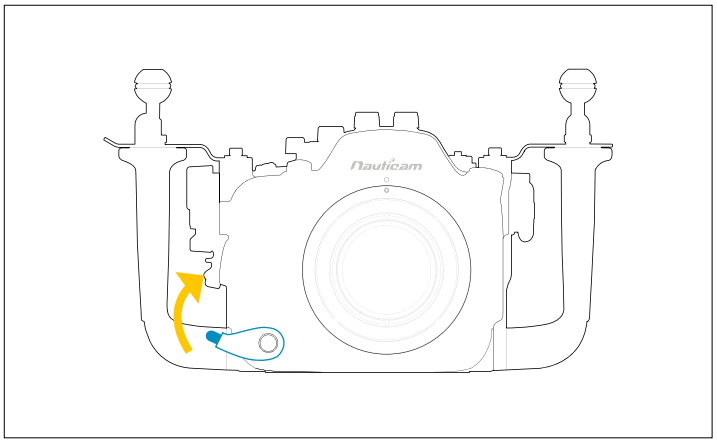


lubricant the port O-ring before mounting

align index mark

push port assembly straight in

3



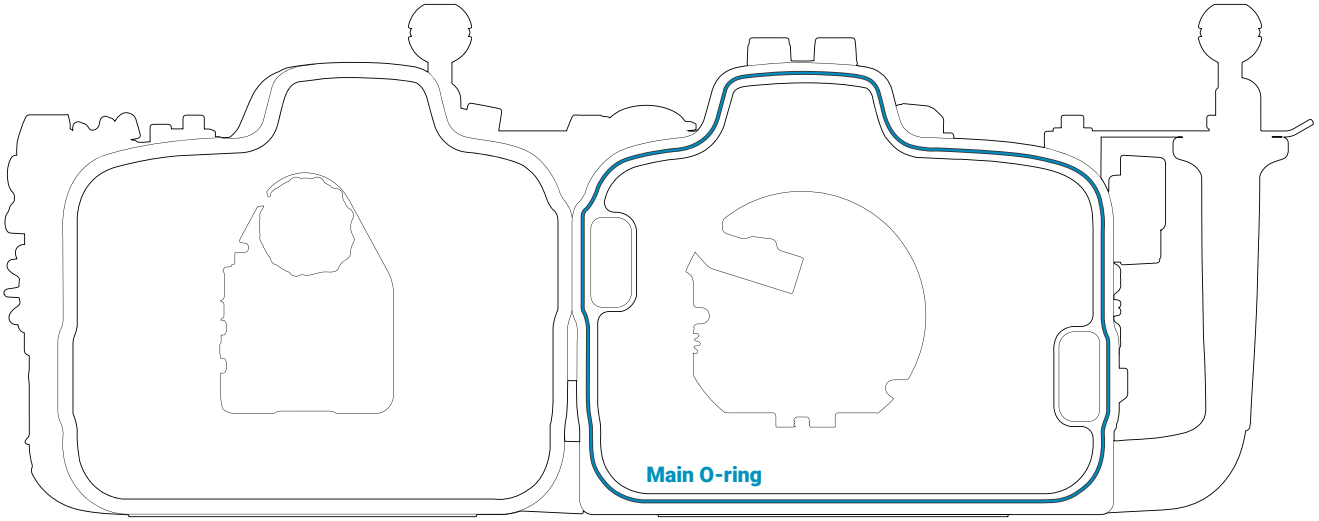
rotate locking lever clockwise to lock

⚠ *Do not operate the red lever with force, make sure the port is aligned correctly and pushed in fully and securely*

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

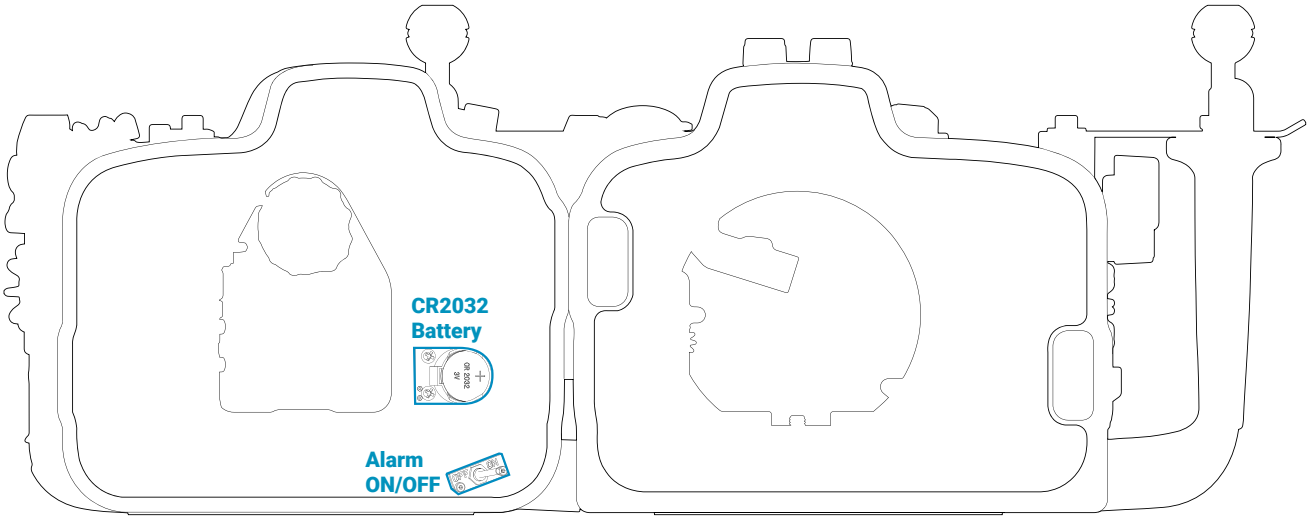
4

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

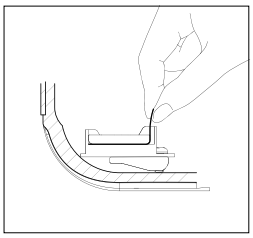
PREPARATION FOR USE

* drawings as illustrations only

Setting up moisture alarm

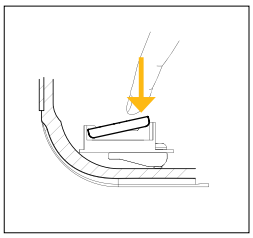


1



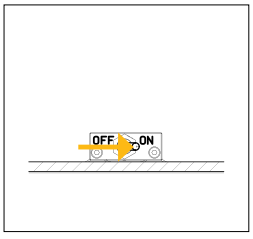
remove battery insulation film

2



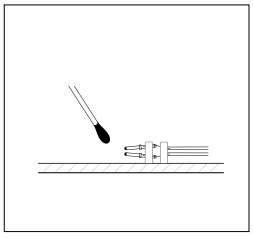
press the battery down until it click into place

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

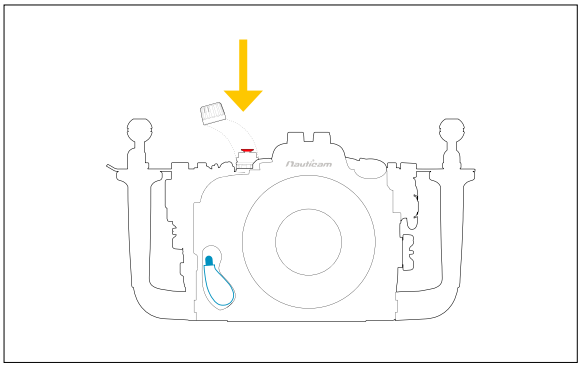
***** *please contact our authorized service centers if testing fails*
***** *please refer to page 17 for complete vacuum system guidance*

PREPARATION FOR USE

* drawings as illustrations only

Changing lens/port without opening the housing

1

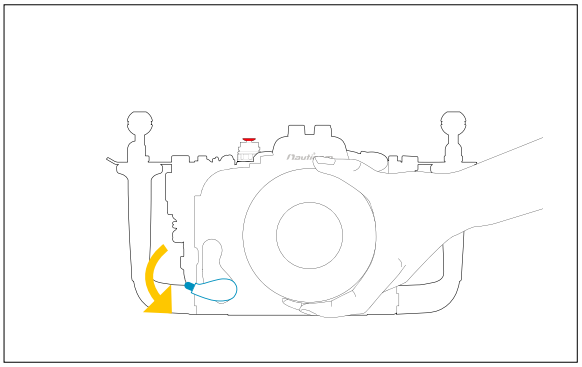


If using with vacuum valve :

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

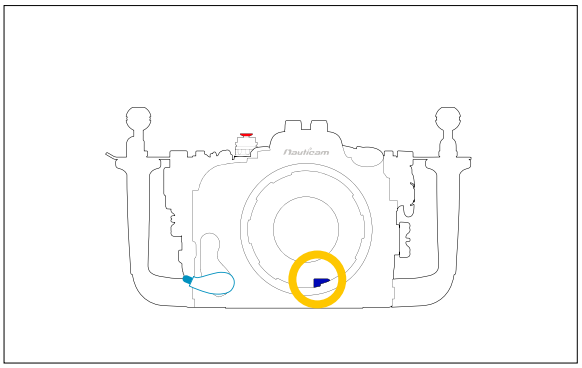
If using without vacuum valve, please follow from step 2

2



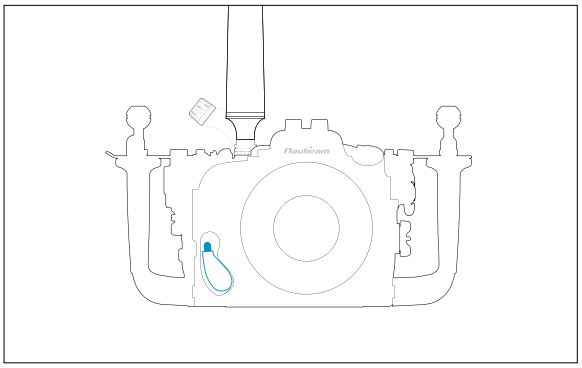
unlock port lock and remove port assembly

3



press the blue button to reset vacuum alarm before replacing port

4



replace port assembly then lock port lock

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

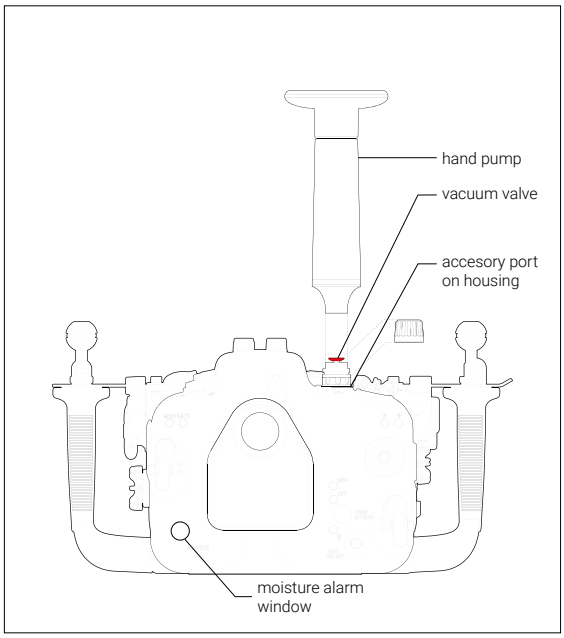
***** *please refer to page 17 on complete vacuum system guidance*

OPTIONAL ACCESSORIES

* drawings as illustrations only

Vacuum valve system

1



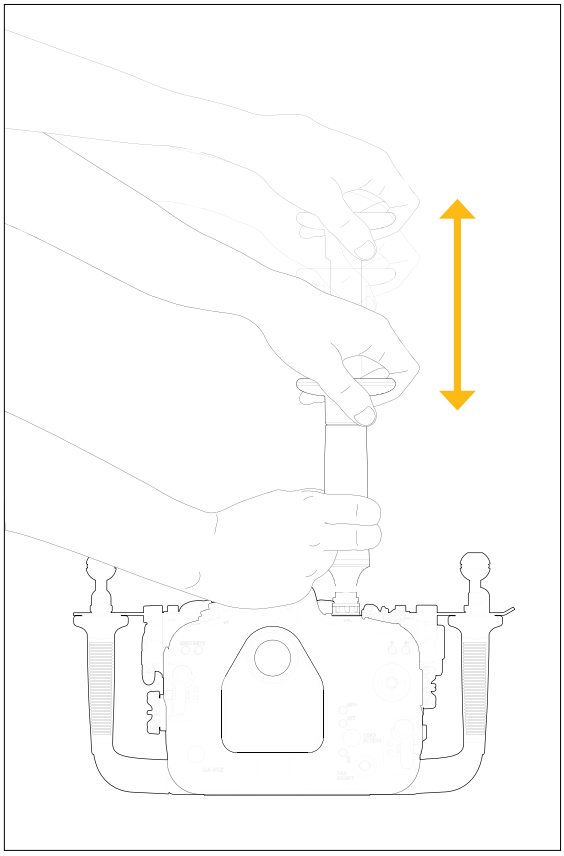
remove the plug of M16 accessory port from the housing

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.*

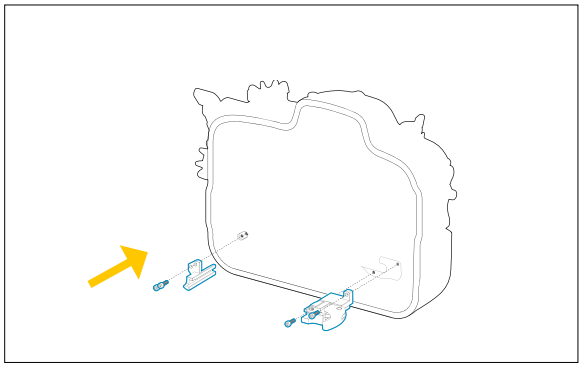
** please contact our authorized service centers if testing fails*

OPTIONAL ACCESSORIES

* drawings as illustrations only

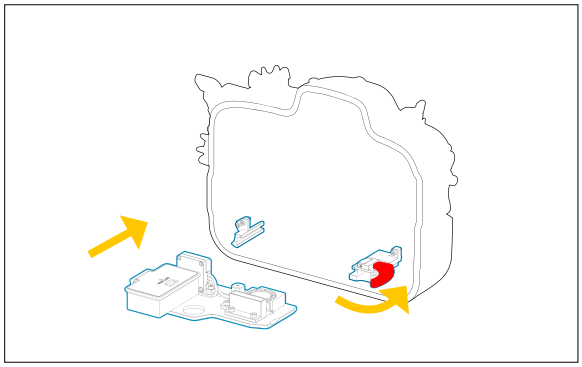
Installing cooling fan set

1



install the cooling fan railing assembly onto the housing as shown

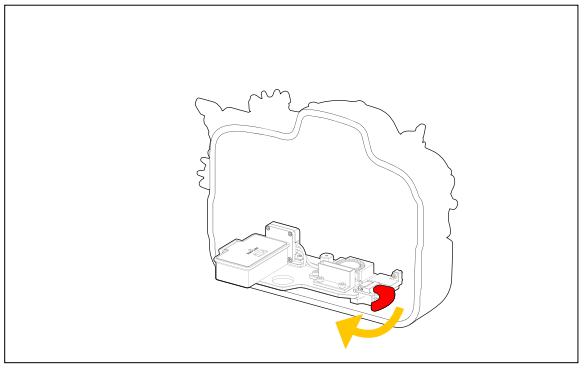
2



unlock the locking lever

then slide the cooling fan system into the tray rail

3



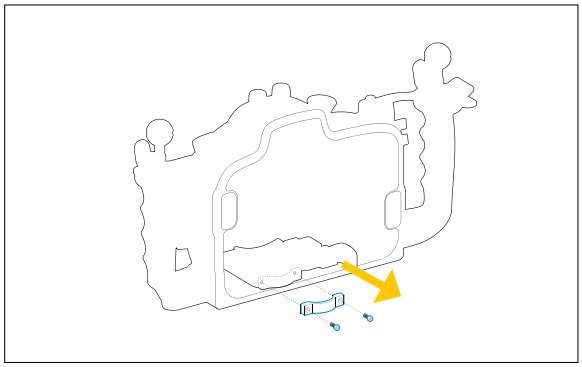
lock the cooling fan assembly

OPTIONAL ACCESSORIES

* drawings as illustrations only

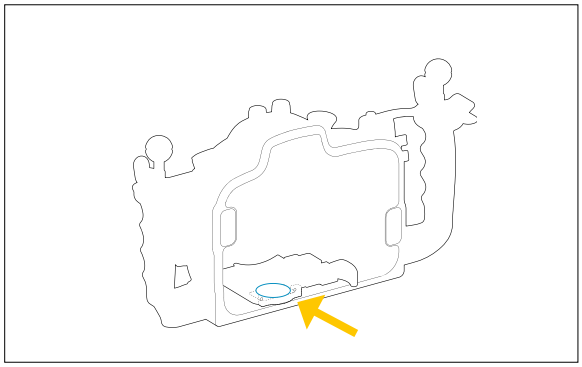
Installing Apple AirTag

1



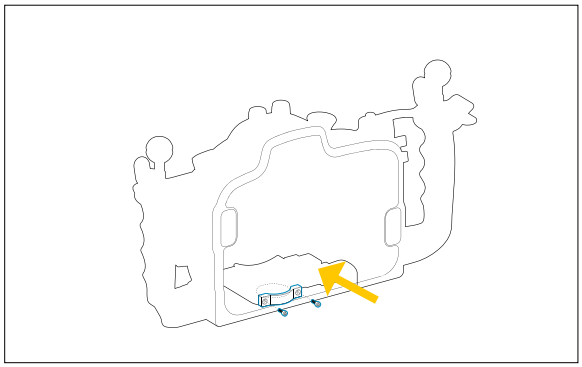
remove the two screws and take out the Airtag holder cover

2



place the AirTag into the holder

3



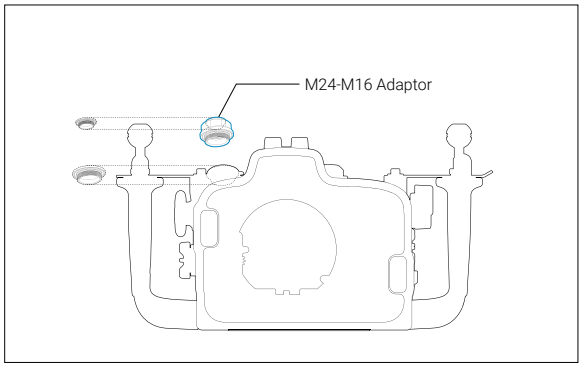
close the holder cover

OPTIONAL ACCESSORIES

* drawings as illustrations only

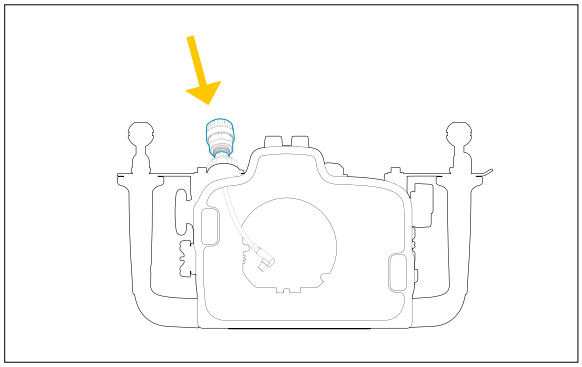
Installing Surface USB-PD Power Bank

1



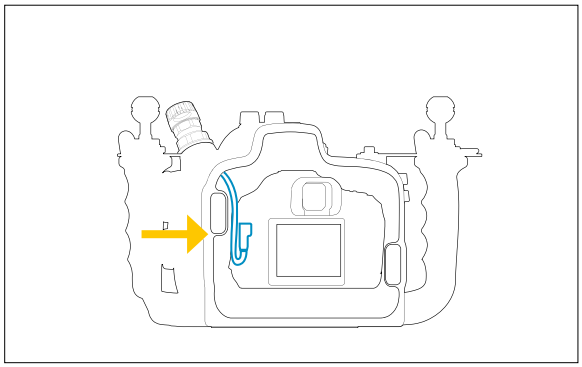
unscrew the M24 accessory port cap from the camera housing and screw the M24-M16 adaptor into the housing port

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

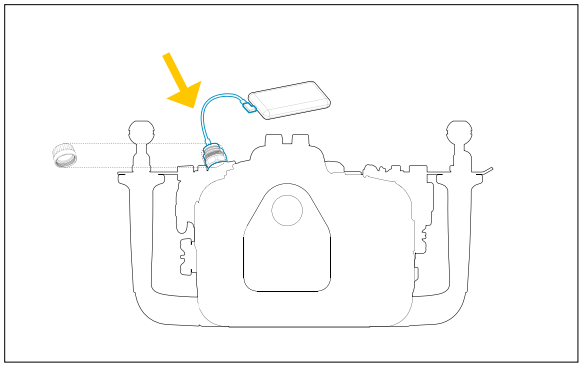
3



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

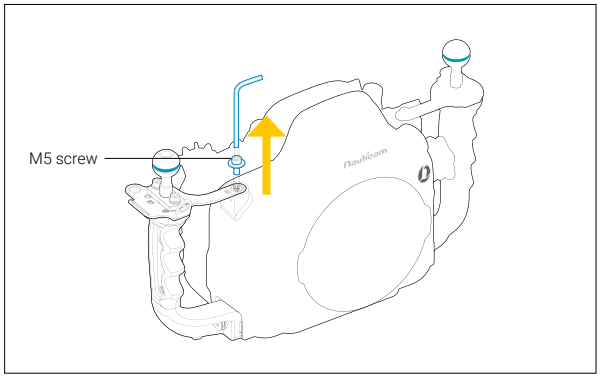
plug the power bank with USB Type-C connector into the USB-C bulkhead

OPTIONAL ACCESSORIES

* drawings as illustrations only

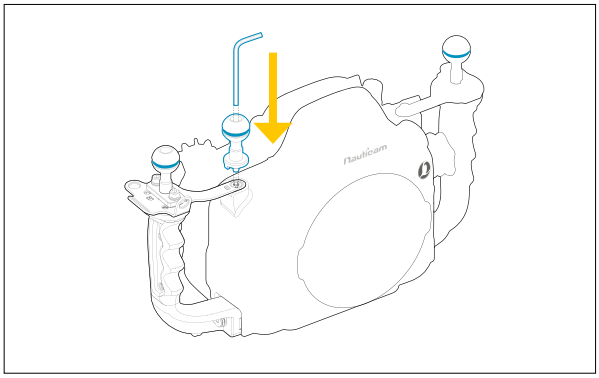
Installing M5 Strobe Mounting Ball - RECOMMENDED

1

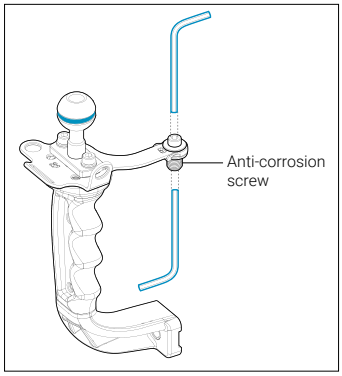


remove M5 screw with the allen key provided in the housing package

2

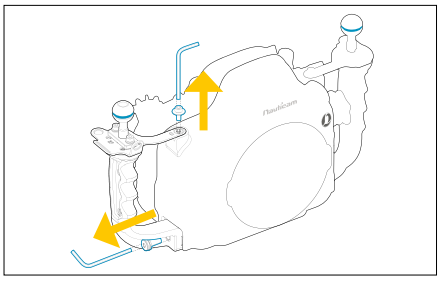


screw #25228 M5 Strobe mounting ball directing onto the M5 thread



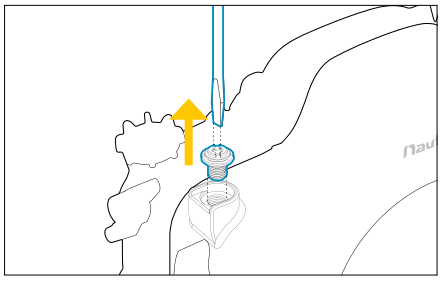
** the anti-corrosion screw may also be unscrewed while removing M5 screw, if this is happening, you can seperate the parts as shown in the diagram on the left*

Installing M10 Strobe Mounting Ball - Optional



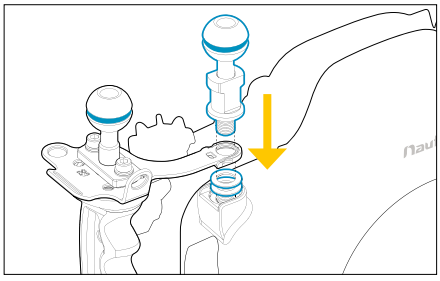
1

remove M5 screw and housing handle screw on the side



2

take out the handle and remove the anti-corrosion screw



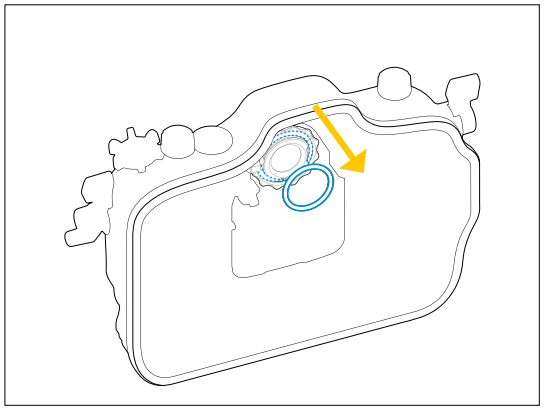
3

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

OPTIONAL ACCESSORIES

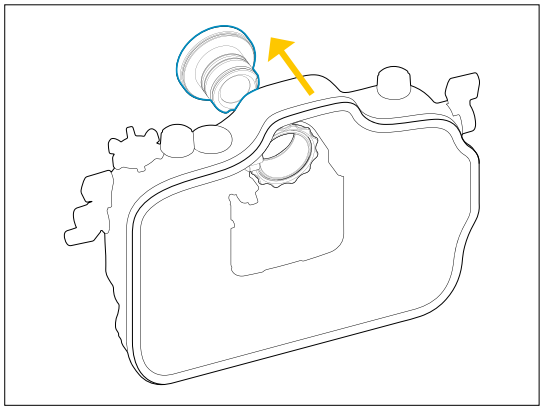
Installing Viewfinder

1



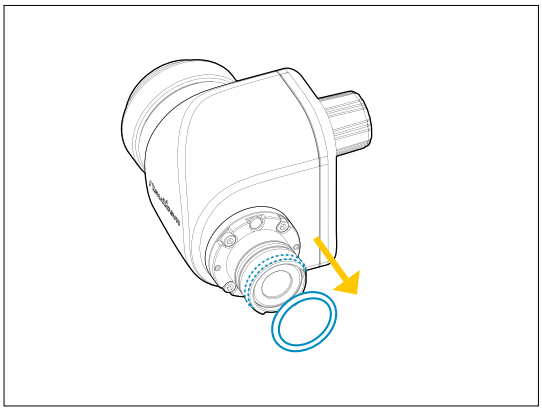
firstly remove the pre-installed 0.66x viewfinder from the housing by removing the retainer o-ring inside rear housing

2



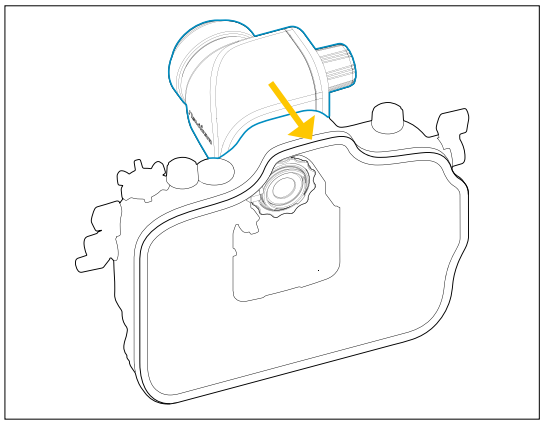
gently push the 0.66x viewfinder from the inside of the housing

3



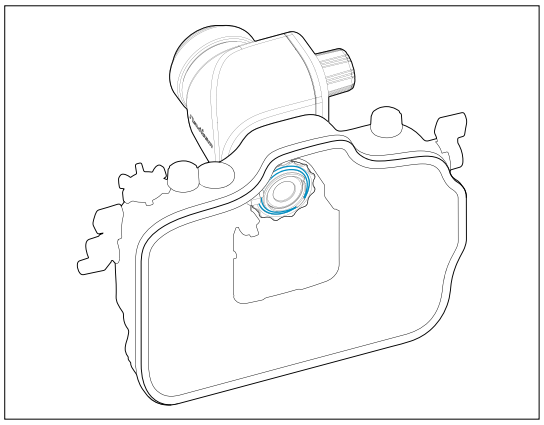
remove the retainer o-ring from the viewfinder

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	357 mm
Height	200 mm
Depth	167 mm

Weight

In air	3.64kg
Buoyancy in water	0.1kg (incl. camera and battery)

Depth

Rating	100 m

Port Specifications

Port mount	N 120 Port System for Canon RF-mount Camera
Port accessories	1 x M24, 2 x M16

Surface USB-PD Power bank

26325 USB-C Bulkhead with USB-C Connector
26326 M24-M16 Adaptor

Lanyard

25413 27cm Lanyard with 2 Snap Hooks

Viewfinder

32212 Nauticam Full Frame Straight Viewfinder 40°/ 0.8:1
32214 Nauticam Full Frame Angle Viewinder 40°/ 0.8:1
87213 Reverse Angled Viewfinder for EMWL 40°/ 0.8:1
87214 Reverse Straight Viewfinder for EMWL 40°/ 0.8:1

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)
72221 Ø50x200mm Carbon Fibre Aluminium Float Arm (Buoyancy 160g)
72222 Ø50x250mm Carbon Fibre Aluminium Float Arm (Buoyancy 240g)
72223 Ø50x300mm Carbon Fibre Aluminium Float Arm (Buoyancy 320g)
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 Bayonet Holder for Arms
83253 Double Bayonet Holder for Armsrm
83254 Bayonet Lens Holder for Inon Float Arms
87516 EMWL Bayonet Holder for Ø70 Float Arm
87517 EMWL Bayonet Holder for Ø90 Float Arm

FLASH TRIGGERING

Optical

Manual Flash Trigger

26301 Flash Trigger for Canon

TTL Flash Trigger

26321 TTL Flash Trigger for Canon
26322 TTL Flash Trigger for Canon II

Electrical

25017 M14 6 pin Bulkhead for Canon System
25020 Canon Hotshoe Plug to a M14 Nikonos Bulkhead
26326 M24-M16 Adaptor for use with 26325

***** *26216 Universal Optical Fiber Cables are required for optical flash triggering*

WET LENS COMPATIBILITY

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

Nauticam optical lenses

Macro	81201 Super Macro Convertor 1
	81202 Super Macro Convertor 2
Macro to Wideangle	86201 Macro to Wideangle Lens 1 (MWL-1, 150 deg. FOV with full frame 60mm macro lens)
	87302 EMWL Set #2
	87202 EMWL Focusing Unit #2
	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
83214 Bayonet Mount Adaptor for SMC/CMC
83250 M67 to Bayonet Mount Converter II
83251 M77 to Bayonet Mount Converter II
87501 Flip Holder for EMWL
87512 Shade for 130° Objective Lens
87513 Shade for 100° Objective Lens
87518 Strobe Mounting Brackets for EMWL Relay Lens
87519 Shade for 160° Objective Lens

HDMI CONNECTION & MONITOR OPTIONS

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 NA Ninja V-S Housing

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 HDMI 1.4 Cable for Ninja V Housing in 0.75m Length

***** *25082 is required for use with 17922/17926 monitor housing*

***** *25033 is included in 17923 monitor housing packaging*

Monitor Options (1.4)

17922 NA Ninja V Housing
17923 NA-Shinobi-H Housing

Optional Monitor Mounting Accessories

17951 Atomos Housing Mounting System
17957 Nauticam Atomos Shogun Housing Mounting Adaptor
***** *17957 is only compatible with R5II Housing after SN A439736*
17954 Tripod Plate
17960 Universal Quadra-Pod Plate

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