

NA - Ultra5 Housing

For SmallHD Ultra5 Camera Monitor

PN 17926

User Manual

Housing
Monitor

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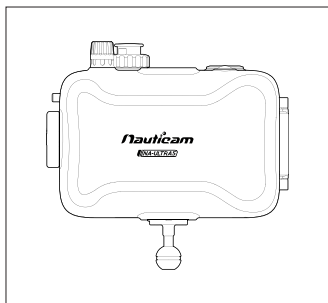
INTRODUCTION

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.

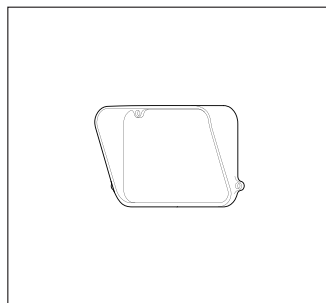
PACKAGE CONTENTS

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.

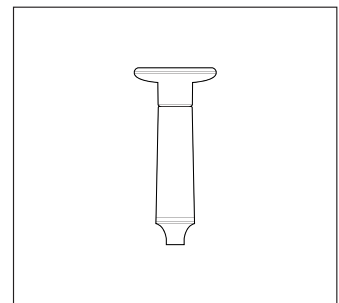


Pre-installed items :

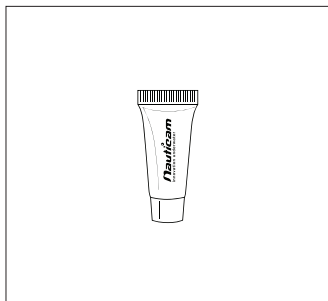
- # 25625 M16 Vacuum Valve II
- # 25089 M28 HDMI 2.0 Adapter
- # 17958 Mounting Ball



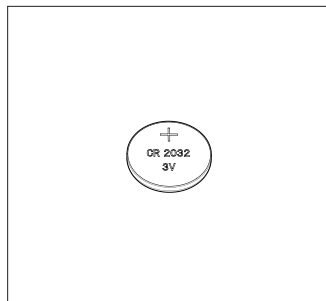
Monitor Hood



Hand Pump

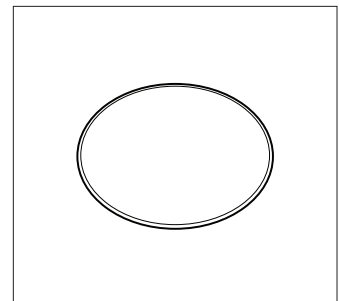


Lubricant

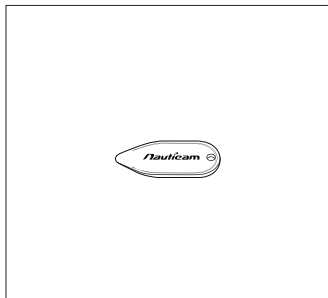


Panasonic CR2032 Battery

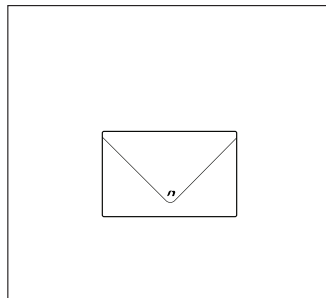
(pre-installed for Moisture Alarm)



Spare Main O-ring
90254



O-ring Remover



Manual Instruction Card



Padded Travel Case

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

IMPORTANT INSTRUCTIONS

1

Water-tight test of the housing (without monitor 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 accessories 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 inserting or removing the monitor.

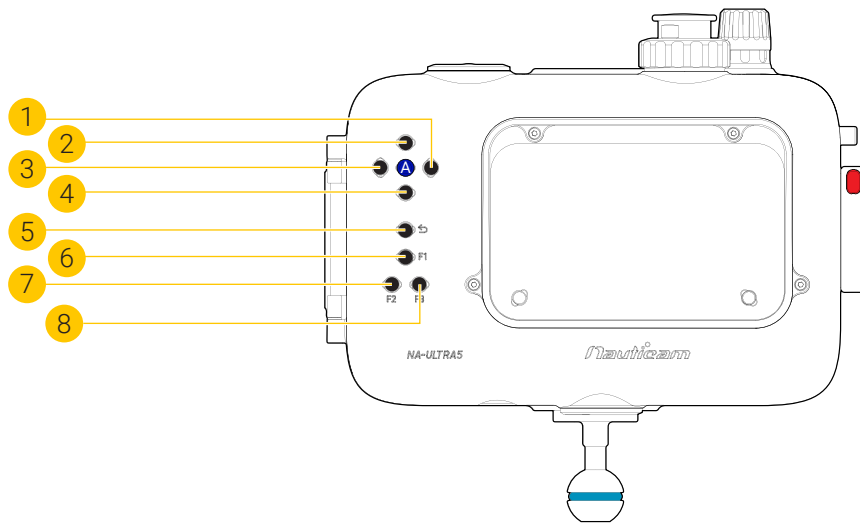


12

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 Joystick - Right button

2 Joystick - Up button

3 Joystick - Left button

4 Joystick - Down button

5 Back button

6 Custom - F1 button

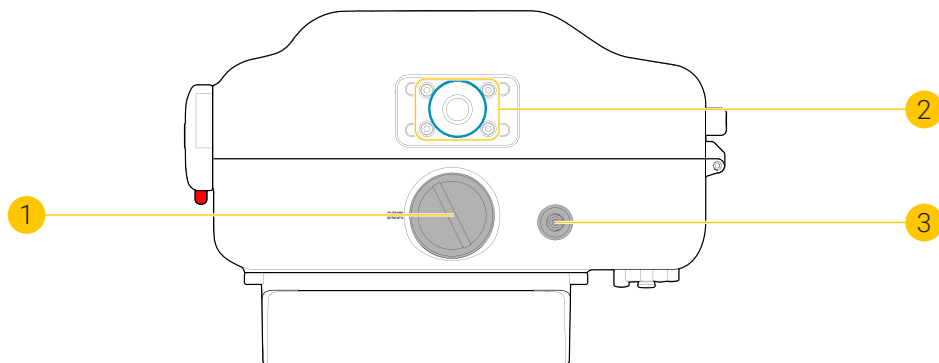
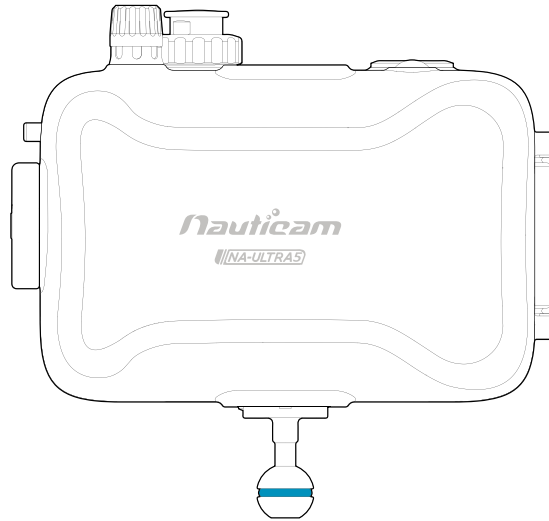
7 Custom - F2 button

8 Custom - F3 button

A Joystick - Center

PART NAMES AND FUNCTIONS

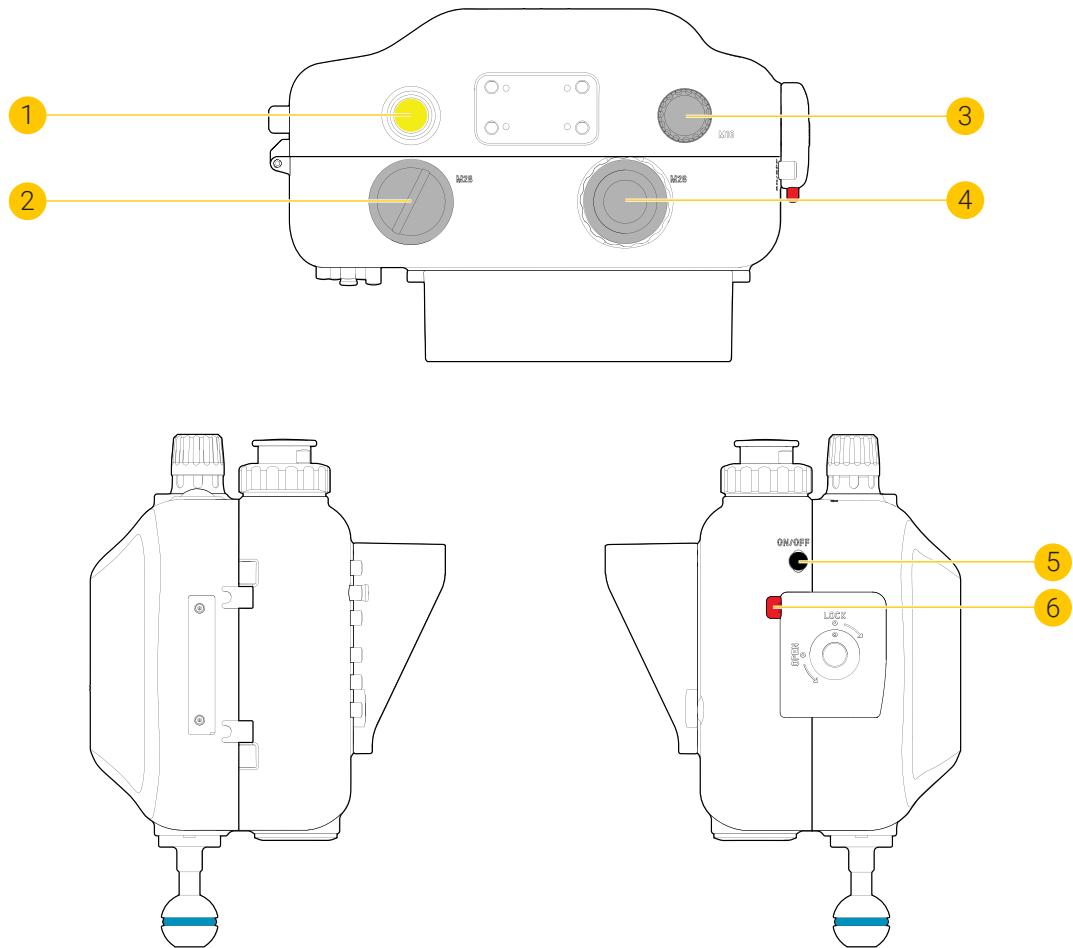
Front + Bottom Views



- 1 M28 Accessory port
- 2 Mounting ball
- 3 Sacrificial zinc anodes

PART NAMES AND FUNCTIONS

Top + Side Views

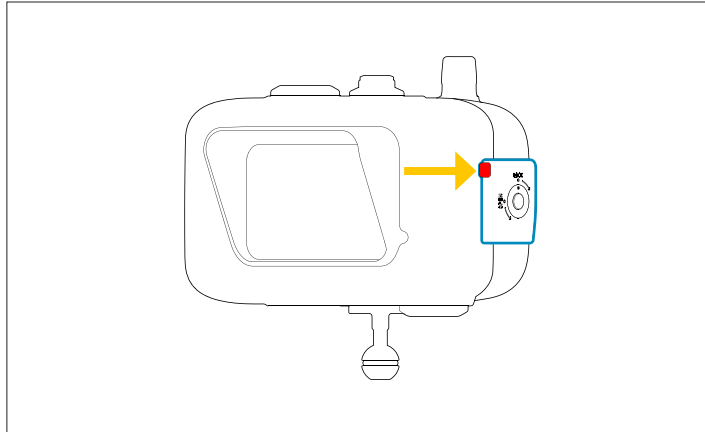


- | | | | |
|---|-----------------------------------|---|------------------------------------|
| 1 | Moisture alarm window | 2 | M28 Accessory port |
| 3 | Pre-installed M16 Vacuum valve II | 4 | Pre-installed M28 HDMI 2.0 Adaptor |
| 5 | ON/OFF button | 6 | Housing unlock button |

OPENING THE HOUSING

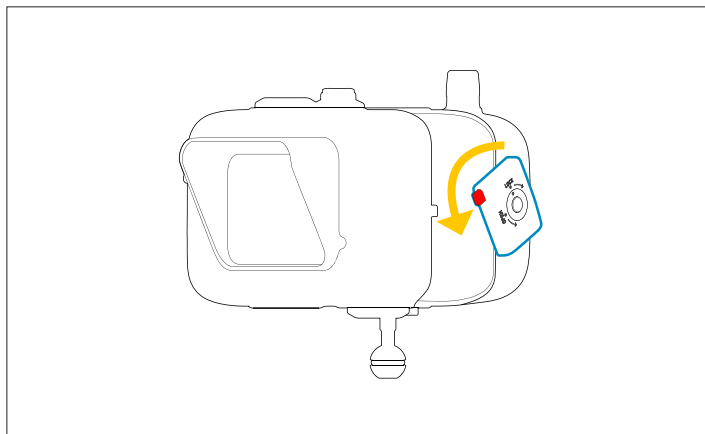
* drawings as illustrations only

1



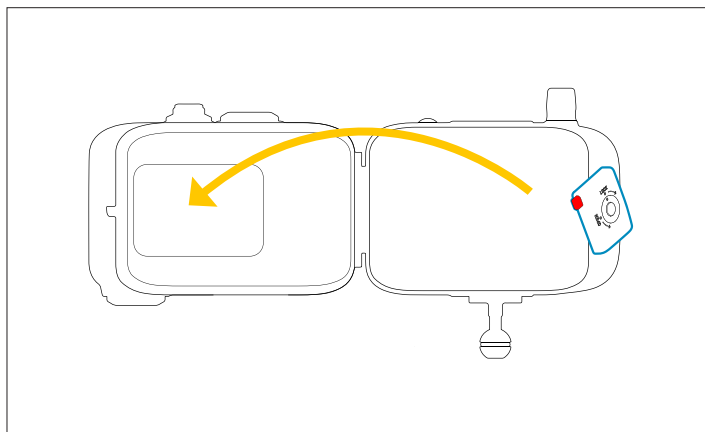
depress housing unlock button

2



turn housing lock latch
anti-clockwise to open the
housing

3

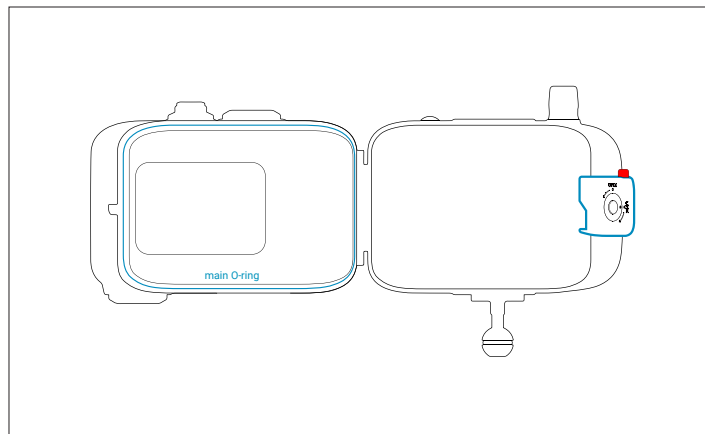


flip open the back housing
when lock latch is aligned to
'open' position

CLOSING THE HOUSING

* drawings as illustrations only

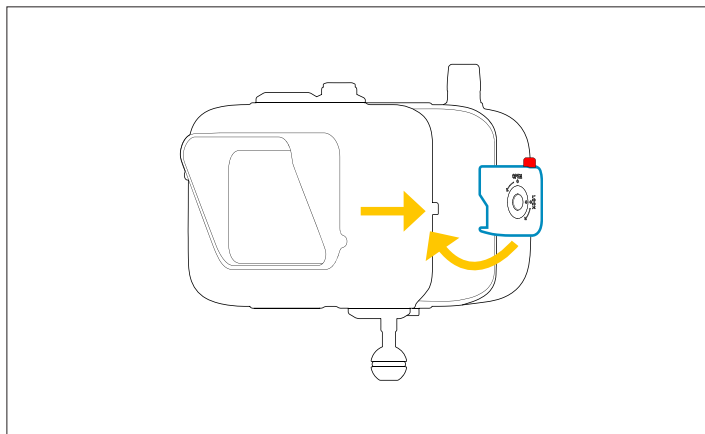
1



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

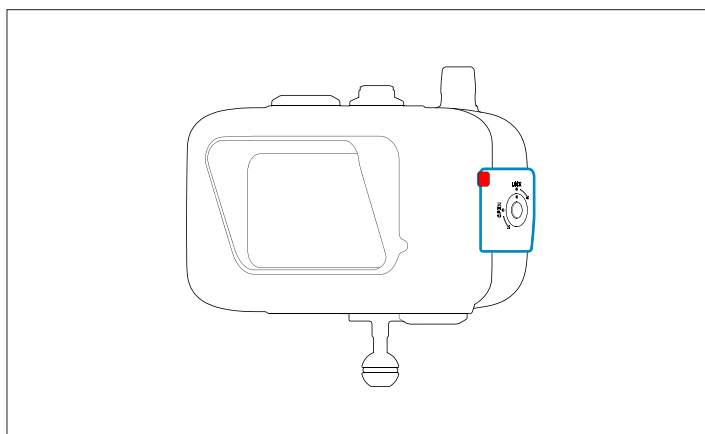
make sure nothing is caught between front and back housing and that they are fully aligned before locking

2



insert the housing shaft into the shaft hole and then rotate the lock latch clockwise until you hear and feel it click into place

3



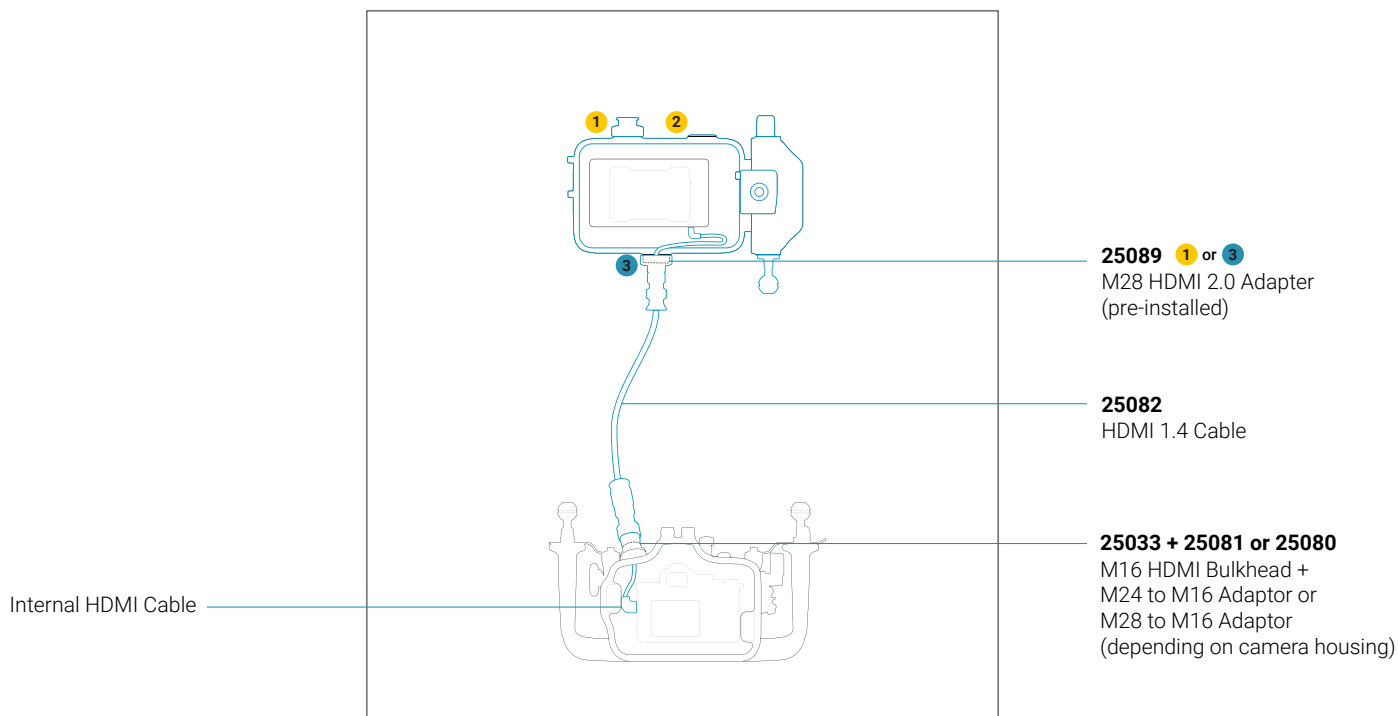
housing locked in place securely

SETUP OPTIONS - HDMI 1.4

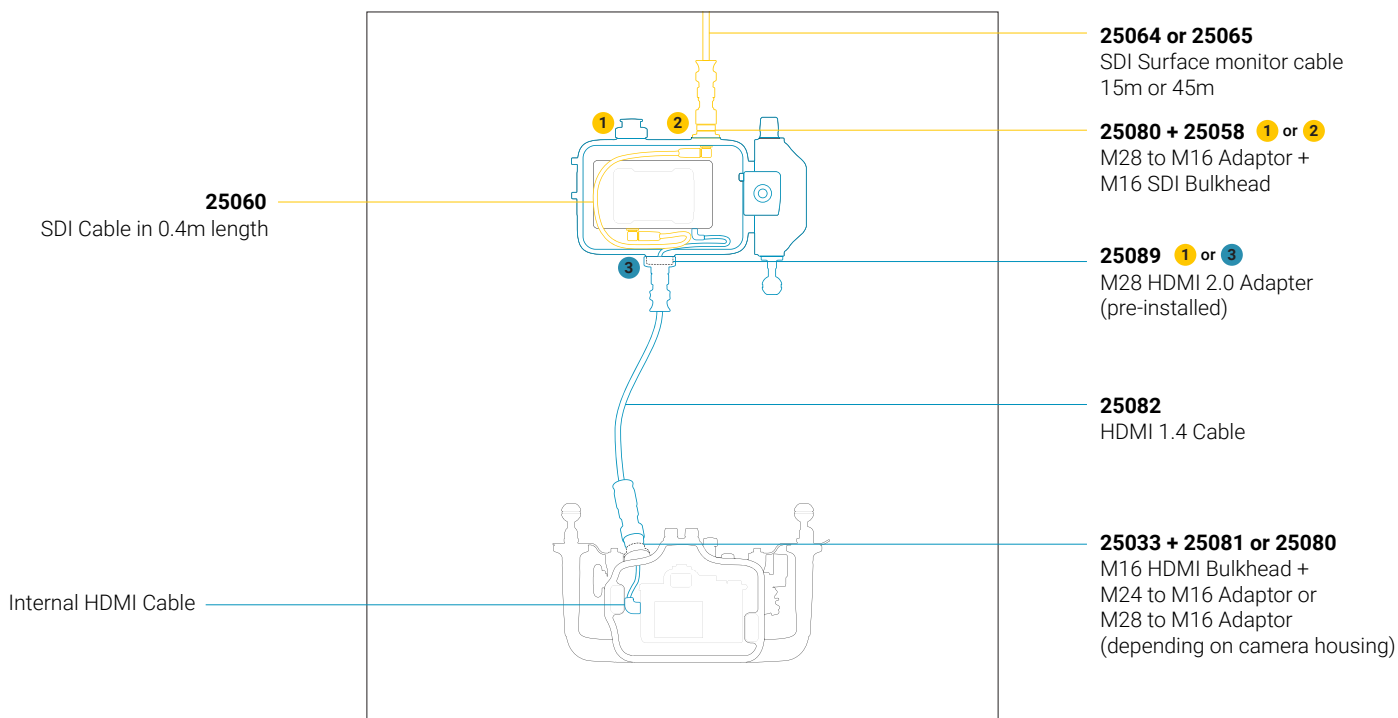
* drawings as illustrations only

Connection with Camera Housing

HDMI IN



HDMI IN + SDI OUT

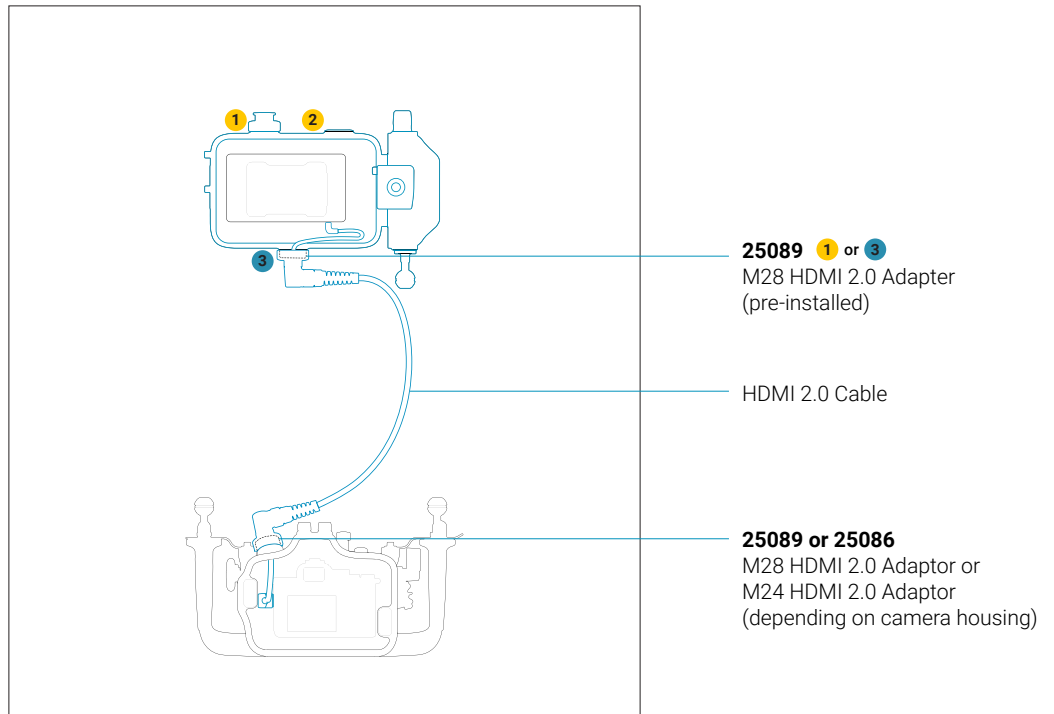


— Connect to surface
— Connect to housing

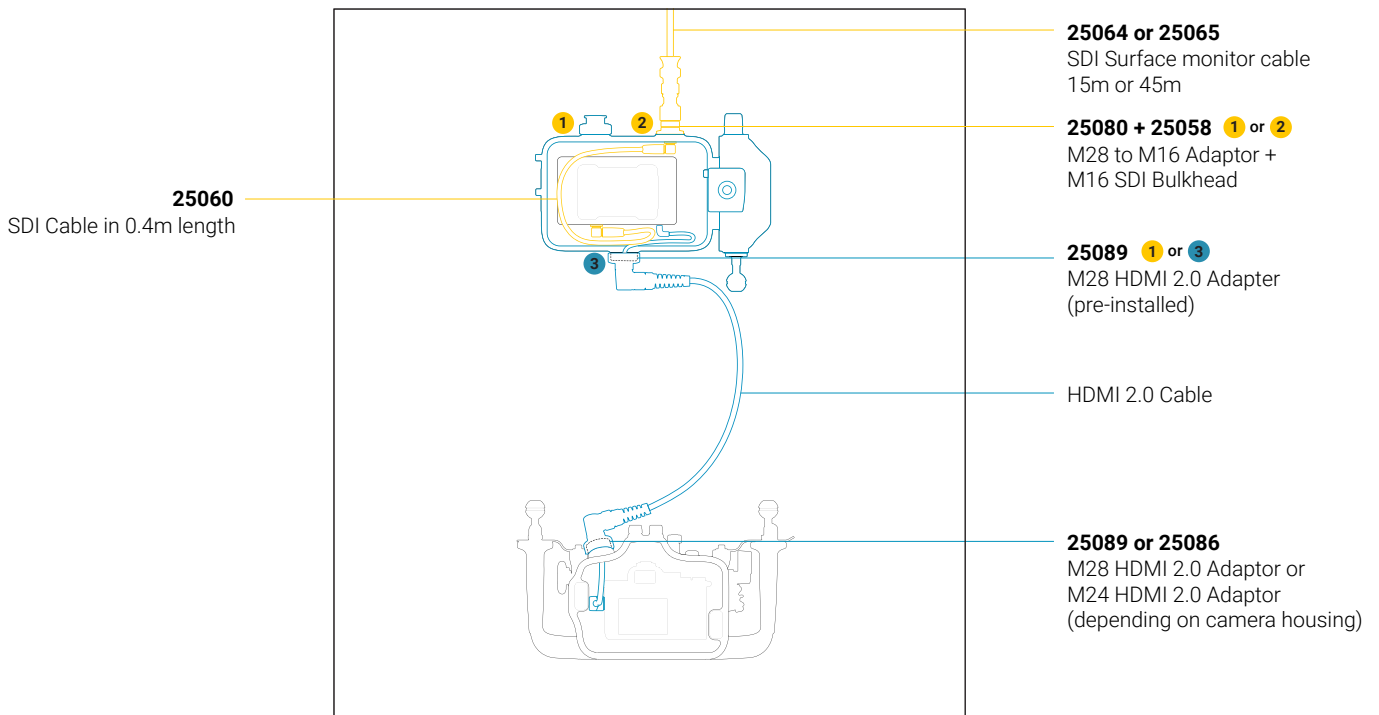
SETUP OPTIONS - HDMI 2.0

* drawings as illustrations only Connection with Camera Housing

HDMI IN



HDMI IN + SDI OUT

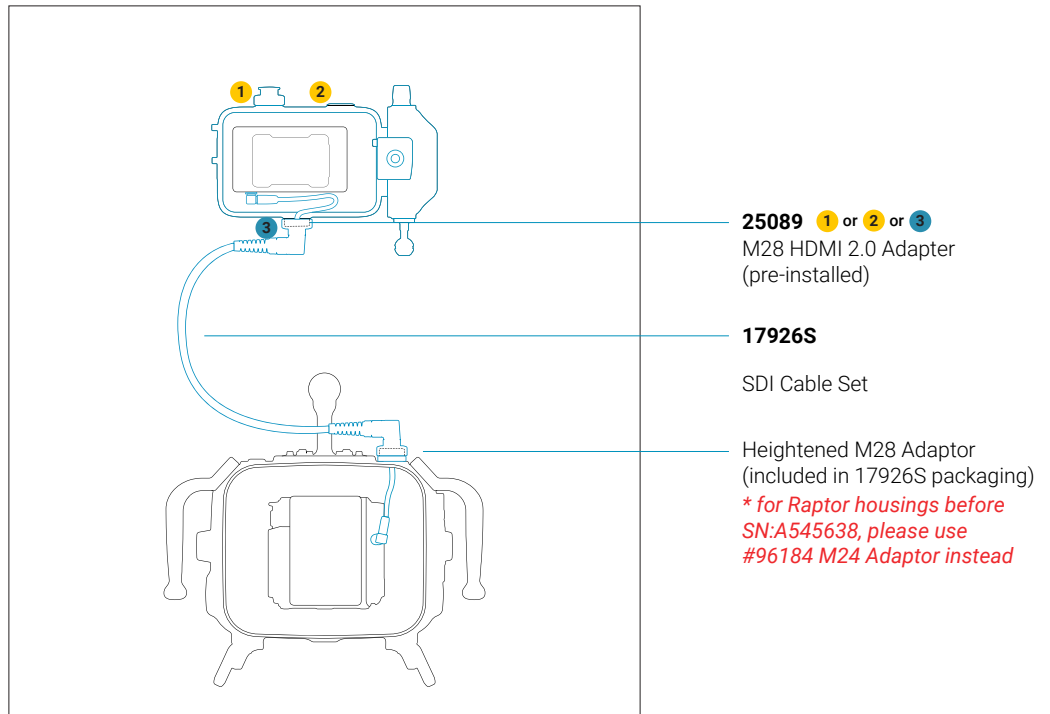


— Connect to surface
— Connect to housing

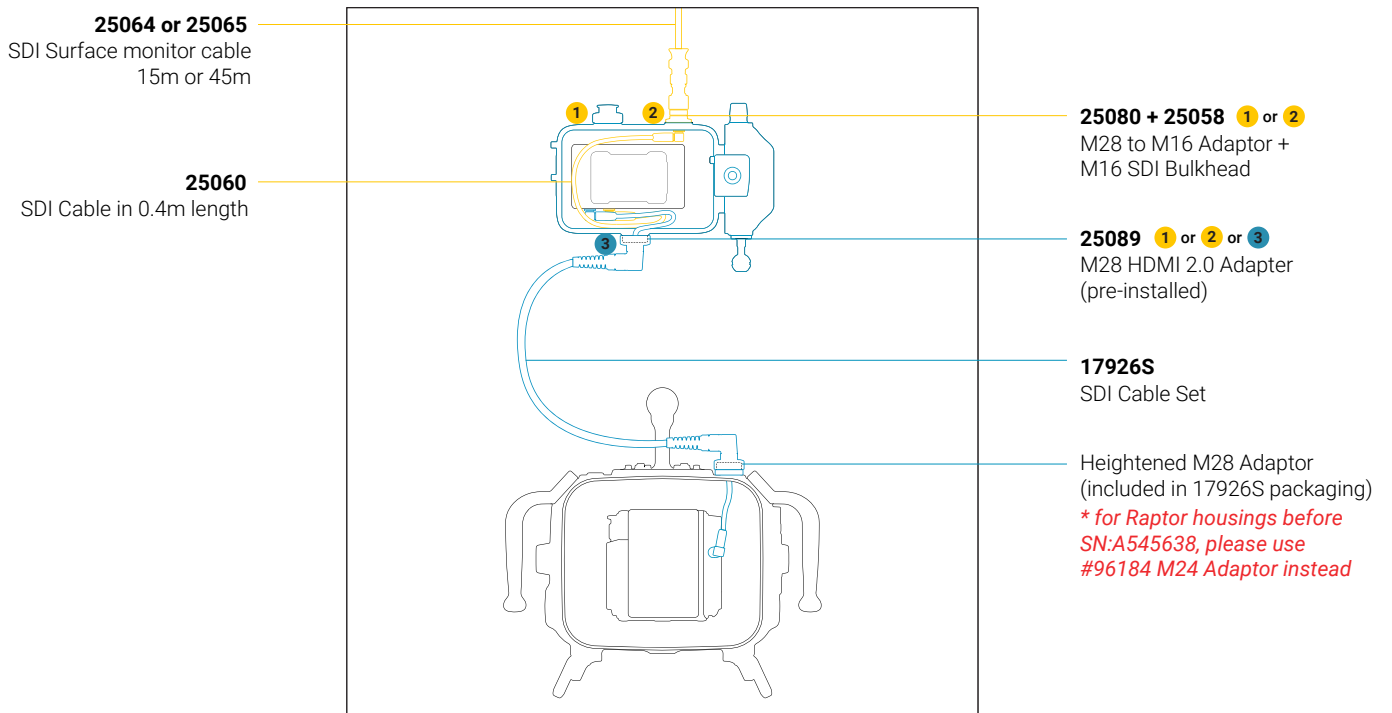
SETUP OPTIONS - SDI ONLY

* drawings as illustrations only Connection with Cinema Housing

SDI IN



SDI IN + SDI OUT

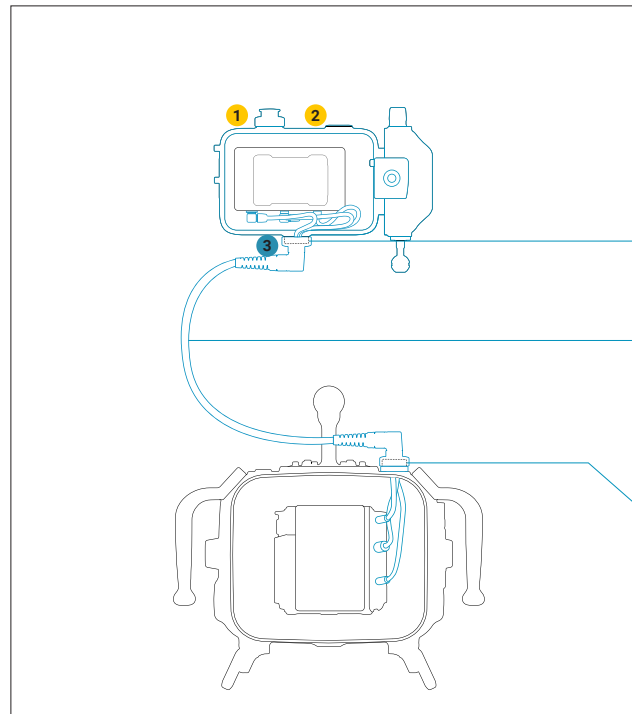


SETUP OPTIONS - CAMERA CONTROL

* drawings as illustrations only

Connection with Cinema Housing

SDI, Ethernet, Power All-in-one



25089 1 or 2 or 3
M28 HDMI 2.0 Adaptor
(pre-installed)

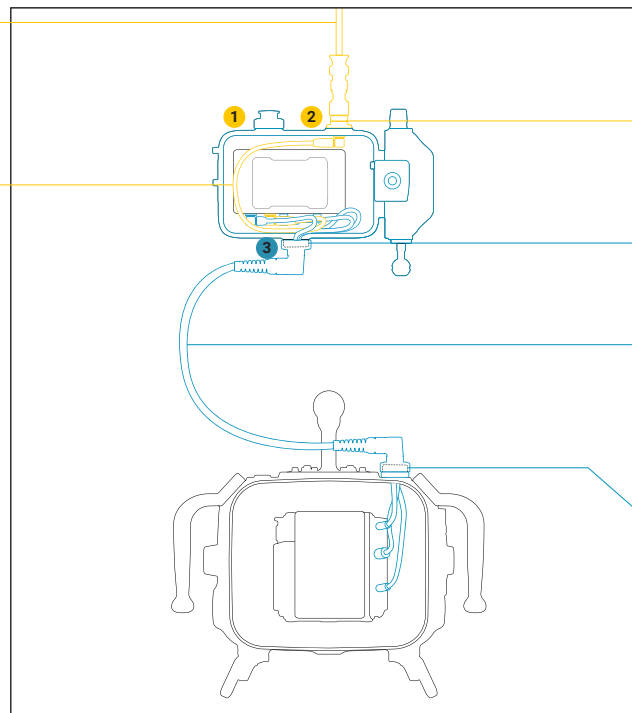
16265A or 16265R or 16265S
SDI, Ethernet, Power All-In-One
Camera control cable bundle for
ARRI mini LF/Alexa 35 or
RED Raptor/XL or
Sony Venice/II
** 16265R includes LEMO 4-pin to
9-pin adaptor cable*

Heightened M28 Adaptor
(included in 17926S packaging)
** for Raptor housings before
SN:A545638, please use
#96184 M24 Adaptor instead*

SDI, Ethernet, Power All-in-one + SDI OUT

25064 or 25065
SDI Surface monitor cable
15m or 45m

25060
SDI Cable in 0.4m length



25080 + 25058 1 or 2
M28 to M16 Adaptor +
M16 SDI Bulkhead

25089 1 or 3
M28 HDMI 2.0 Adaptor
(pre-installed)

16265A or 16265R or 16265S
SDI, Ethernet, Power All-In-One
Camera control cable bundle for
ARRI mini LF/Alexa 35 or
RED Raptor/XL or
Sony Venice/II
** 16265R includes LEMO 4-pin to
9-pin adaptor cable*

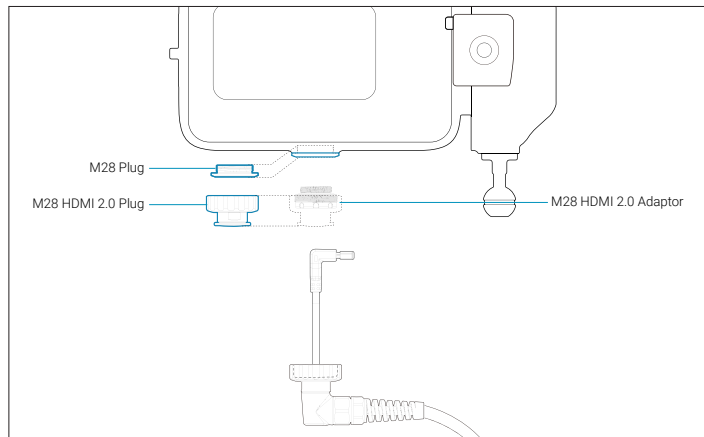
Heightened M28 Adaptor
(included in 17926S packaging)
** for Raptor housings before
SN:A545638, please use
#96184 M24 Adaptor instead*

CABLE CONNECTION - INTO MONITOR HOUSING

* drawings as illustrations only

HDMI IN / SDI IN / Camera Control Cable Bundle - Page 1

1

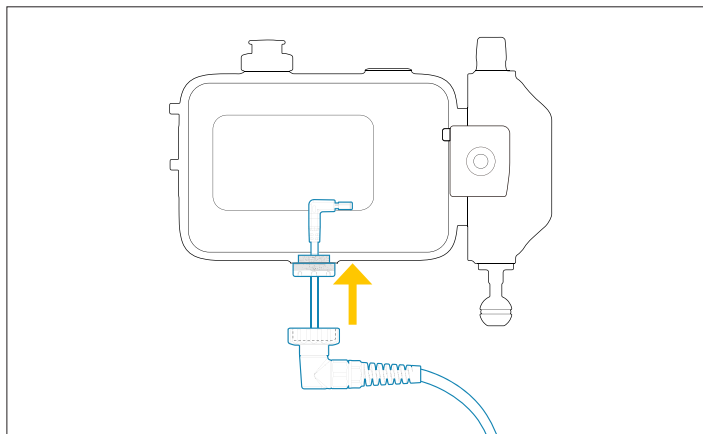


unscrew the M28 plug from the accessory port with a coin

remove the cap of M28 HDMI 2.0 Adaptor and screw it onto the monitor housing

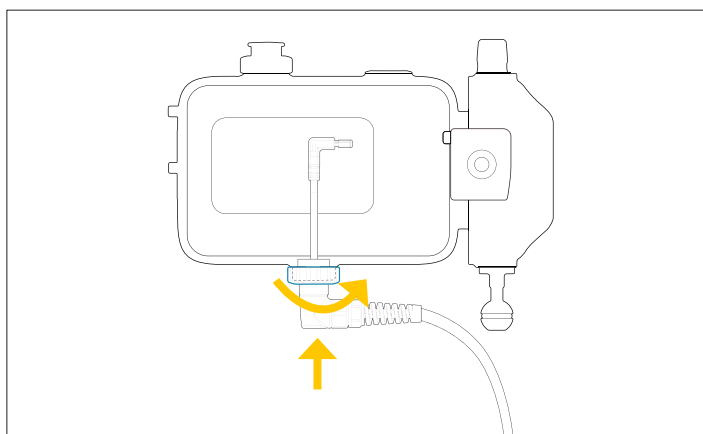
if the M28 HDMI 2.0 Adaptor is pre-installed, simply remove the cap from the housing

2



plug the cable into the Port

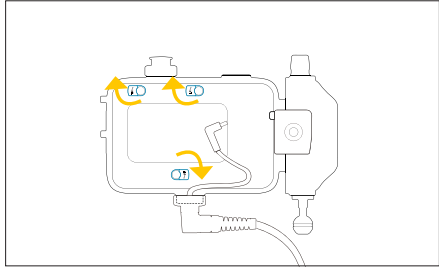
3



connect the cable onto monitor housing by securing the screw

CABLE CONNECTION - INTO MONITOR HOUSING

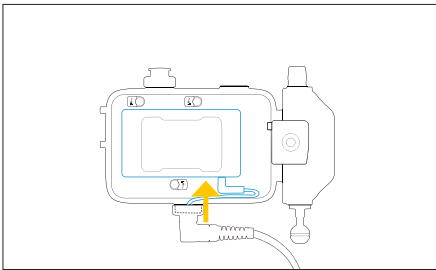
4



turn the three locking levers in the direction as shown

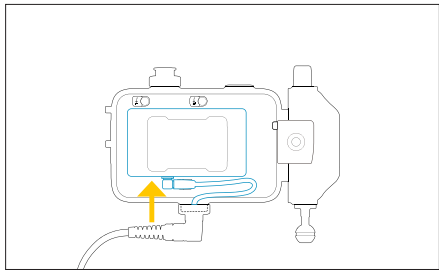
5

HDMI In



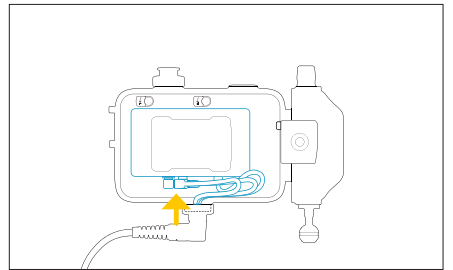
connect the HDMI cable, then place the monitor inside the housing

SDI In



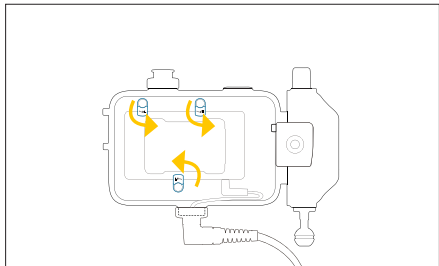
connect the SDI cable, then place the monitor inside the housing

Camera Control



connect the All-in-one cable, then place the monitor inside the housing

6

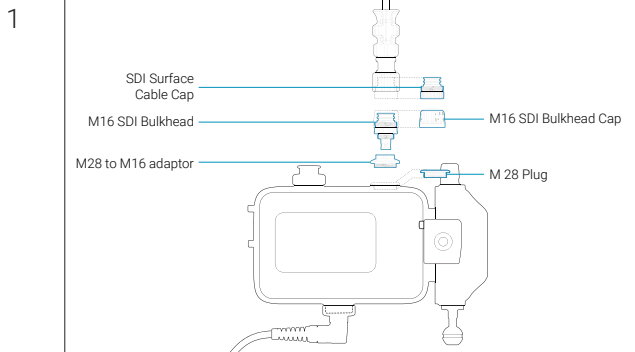


secure the monitor by turning the three locking levers as shown

CABLE CONNECTION - SDI OUT

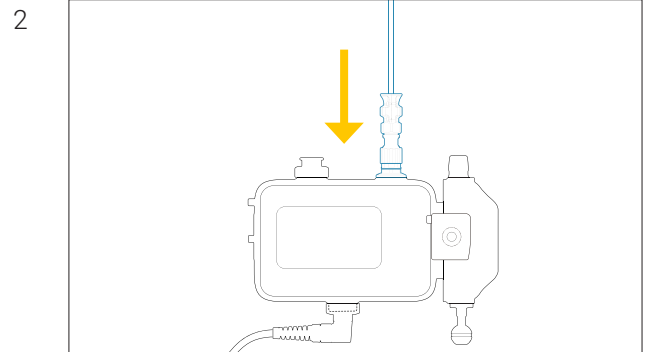
* drawings as illustrations only

**Please note that M16 SDI Bulkhead, 25060 SDI cable and SDI surface cable is not included in the package*

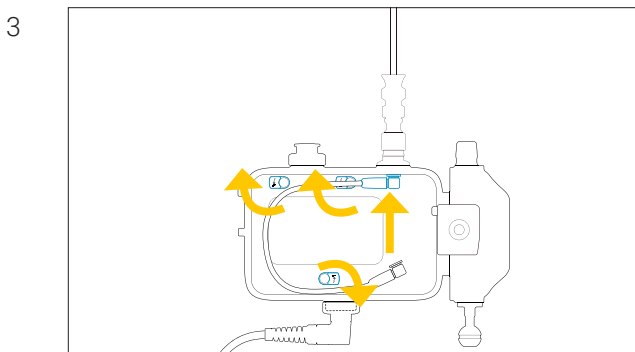


unscrew the M28 plug on the monitor housing with a coin and remove the caps of M16 SDI Bulkhead and SDI surface cable

tighten the M16 SDI Bulkhead into the M28-M16 step down adaptor

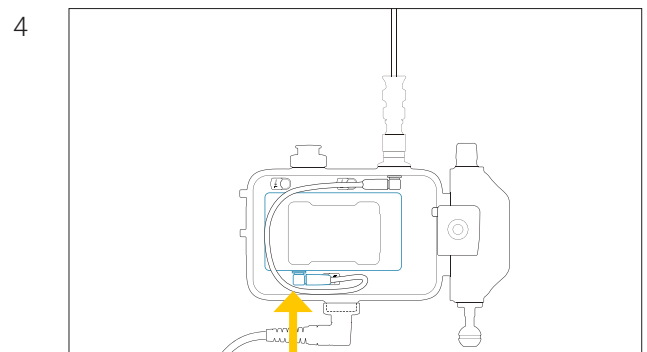


plug the cable into the SDI bulkhead



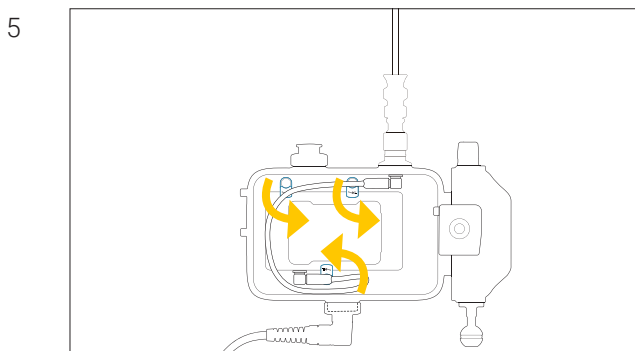
turn the locking levers in the direction as shown

then connect the 25060 SDI cable to the M16 SDI bulkhead as shown



place the monitor inside the housing

then wrap the internal SDI cable around the battery and connect the cable to the monitor SDI-out socket

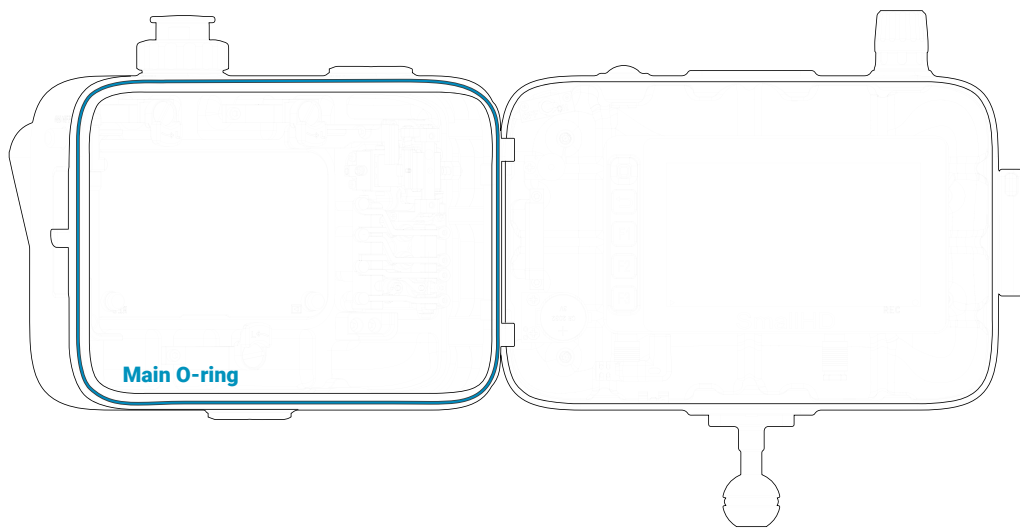


secure the monitor by turning the locking levers towards the monitor as shown

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

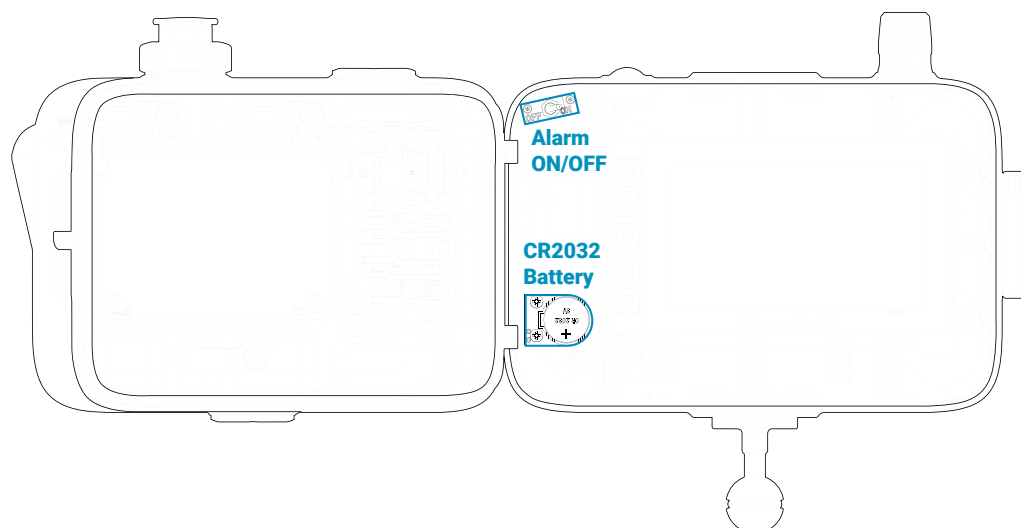
- 3
lightly coat it with provided lubricant

- 4
return the main O-ring by slowly pressing from one corner to the whole perimeter

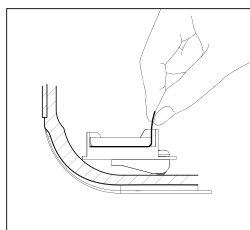
PREPARATION FOR USE

* drawings as illustrations only

Setting up moisture alarm

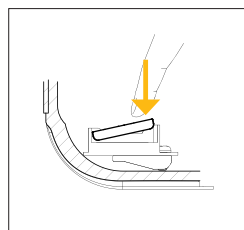


1



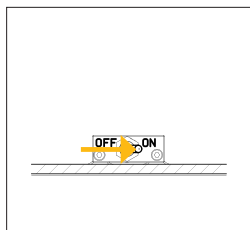
remove battery insulation film

2



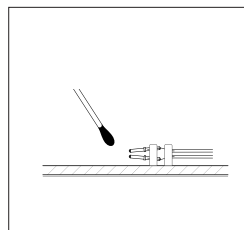
press the battery down until it click into place

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 moisture alarm window will flash **RED**

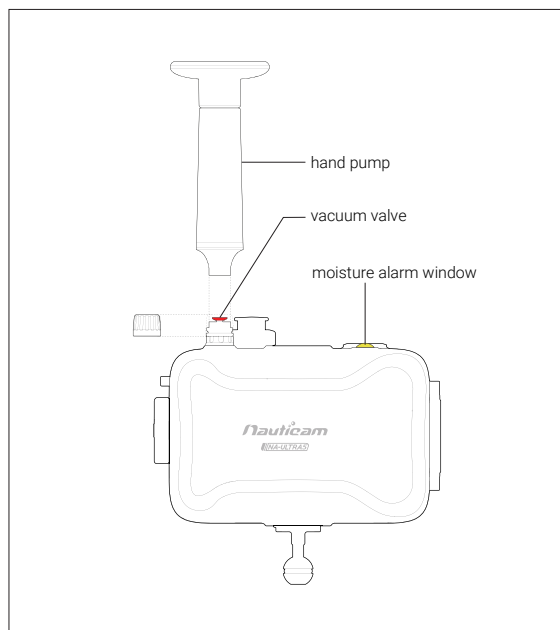
* please contact our authorized service centers if testing fails
* please refer to page 18 for complete vacuum system guidance

PREPARATION FOR USE

* drawings as illustrations only

Pre-installed #25625 M16 Vacuum Valve II

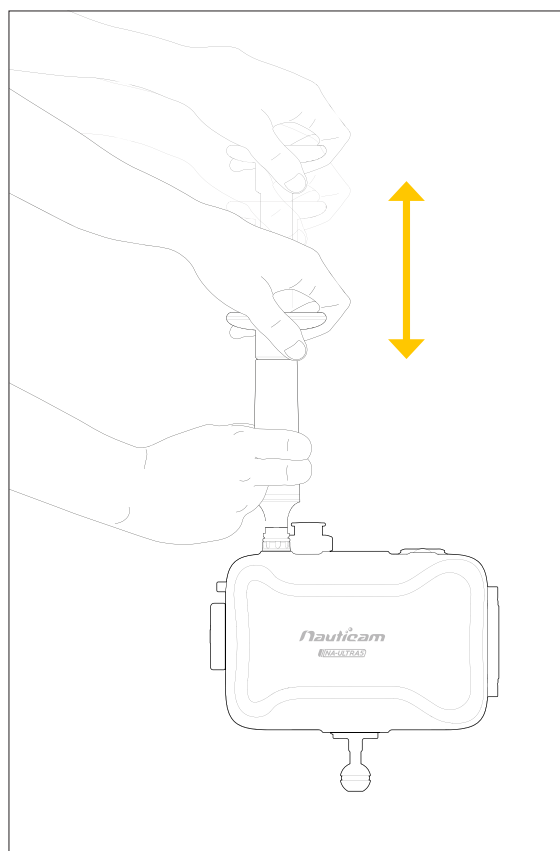
1



remove the cap from the pre-installed vacuum valve

connect hand pump to the valve








2



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 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*

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 monitor inside housing.

5

We recommend to ship the housing to our service centers for a complete overhaul 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

17926 NA-Ultra5 Housing

for SmallHD Ultra5 Camera Monitor

Construction

Housing body	Hard Anodized Aluminium Alloy
Display window	Abrasion Resistant Polycarbonate

Dimensions

Width	238 mm
Height	150 mm
Depth	115 mm

Weight

In air	1.64 kg
Buoyancy in water	0.48 kg (incl. monitor, Fxlion NANO ONE 50Wh battery and SmallHD Micro V mount battery plate)

Depth

Rating	100 m
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Port specifications

Port accessories	1 x M16, 3 x M28
Pre-installed	# 25089 M28HDMI 2.0 Adaptor # 25625 M16 Vacuum Valve II

Optional mounting accessories

17951 Nauticam Monitor Housing Mounting System
17952 Nauticam Atomos Shogun Housing Mounting Adaptor for NA-A7RIII/a2020/A7SIII/a1//XT4/Z50
17953 Nauticam Atomos Shogun Housing Mounting Adaptor for NA-GH5SV
17954 Universal Tripod Plate for Nauticam Housings
17957 Nauticam Atomos Shogun Housing Mounting Adaptor for NA-S1R/S1H/BMPC C6K/II/Z7II/1DXII/5DIV/1DXIII/R5/R6

* The NA-Ultra5 supports the use of the SmallHD Micro Battery Plate for V-Mount when used with the Fxlion NANO ONE 50Wh 14.8V Ultra-Compact V-Mount battery.

Nauticam Internationl Ltd.

Rm 2203, CCT Telecom Bldg,
11 Wo Shing St,
Fo Tan,
Hong Kong

Tel. +852 - 26902711
Fax. +852 - 26909778
URL. www.nauticam.com
Gallery. www.nauticam.smugmug.com