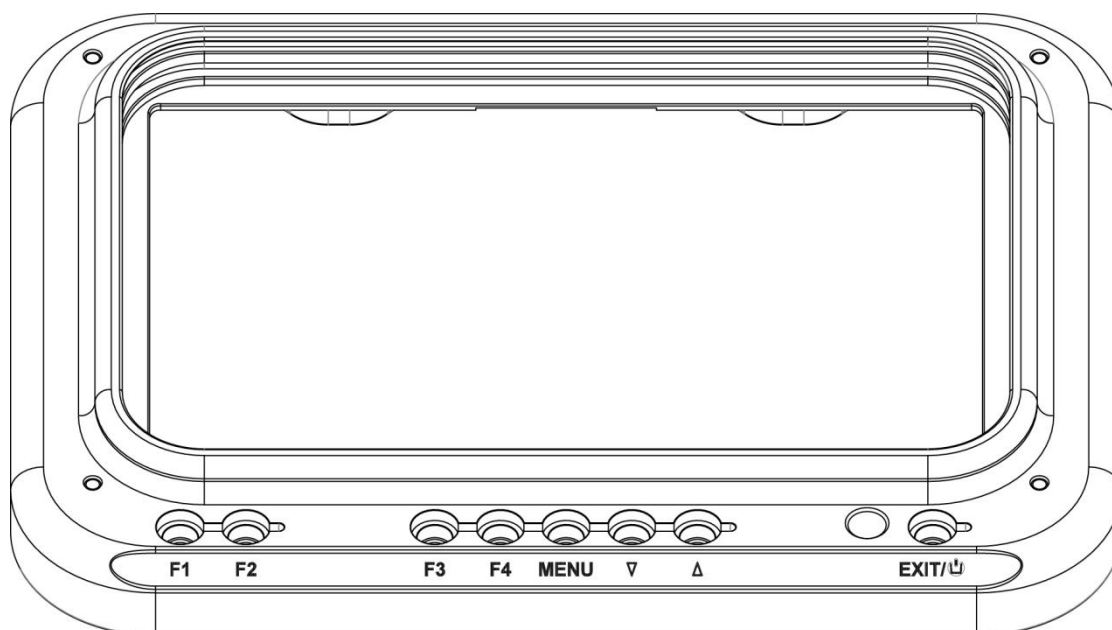# KR-MON03

Kraken Ultra Bright 7" 4K Underwater Monitor

User Manual

Product Overview

Thank you for purchasing the *Kraken Ultra Bright 7" 4K Underwater Monitor*. This monitor is a professional grade IPS LED panel, boasting extremely high brightness, low power consumption, and stable performance. Equipped with HDMI input, the monitor is ideal as a portable, lightweight viewfinder and video monitor, but suitable for a variety of different applications.

Advanced features include:

- Histogram
- False colours
- Zebra exposure
- Focus assist
- Nine grid
- Embedded audio
- Center marker
- Safe frames
- Colour temperature
- Picture settings
- Colour settings

CAUTION

⚠ To ensure proper function of the monitor, please read the user's manual carefully.

- Discontinue use immediately should you notice any water leaking from the monitor.
- Discontinue use immediately should you notice any cracks on the LCD screen.
- Do not open the battery cap or the bulkhead cap in a wet or sandy environment.
- Avoid dropping the monitor.
- The LCD screen of this product is made of glass. Protect the screen from falls, or coming into contact with hard objects.
- Keep the monitor away from heat sources, such as radiator, water heaters, stoves, etc.
- Avoid prolonged exposures to the sun, as the LCD screen could be damaged.
- The charger included is a USB C PD, standard USB C chargers will not charge the battery. It is recommended to use only the battery and charger included.
- Always turn off the monitor before removing the battery.
- To avoid damaging the product, please do not take apart or repair the unit by yourself.
- For optimal maintenance, and to avoid scratching the screen, gently wipe the screen using a clean, soft fibred cloth. Do not use chemical solutions to clean the screen.

General Features

- Waterproof 80m/266ft
- 2200nit Brightness
- IPS 4K LCD panel
- 4K HDMI signal input
- 3840×2160p (30/29.97/25/24/23.98 Hz) / 4096×2160p (24Hz)
- Burn Time:140 minutes @100% brightness
- Analog stereo L/R, embedded audio display
- Histogram
- Focus assist - focus edge can be red, green, or blue
- Zebra exposure and false colour function
- Check field - red, green, blue, mono
- Anamorphic mode

Image Features

- Flip (H, V, H/V)
- Image Freeze
- Nine grid - zoom one of the images to full screen
- Image Zoom-in function
- Pixel to pixel
- Marker types, safe frames and center marker
- Display and adjust the image colour temperature
- Brightness, contrast, tint, saturation and colour temperature adjustment

Package Contents

1. Monitor (Including HDMI-IN Bulkhead)
2. 21700 Battery x 2
3. USB-C PD charger (AC adapter)
4. USB-C PD cable (for charging the battery)
Note: always must use a USB C PD cable, standard USB C will not charge the device
5. HDMI cable (60cm)
6. HDMI bulkhead with M16 thread with soft cable
7. M16-M24 thread adapter for HDMI bulkhead
8. Micro HDMI plug
9. Mini HDMI plug
10. Standard HDMI plug
11. Ball mount
12. Spare O-ring for battery cap (O ring ID49 x CS2.0)
13. Spare O-ring for bulkhead (O ring ID26 x CS1.5)
14. Spare O-ring for M16-M24 thread adapter (O ring ID20 x CS2.0)

Product Description

1. Front Panel/ Button Instruction
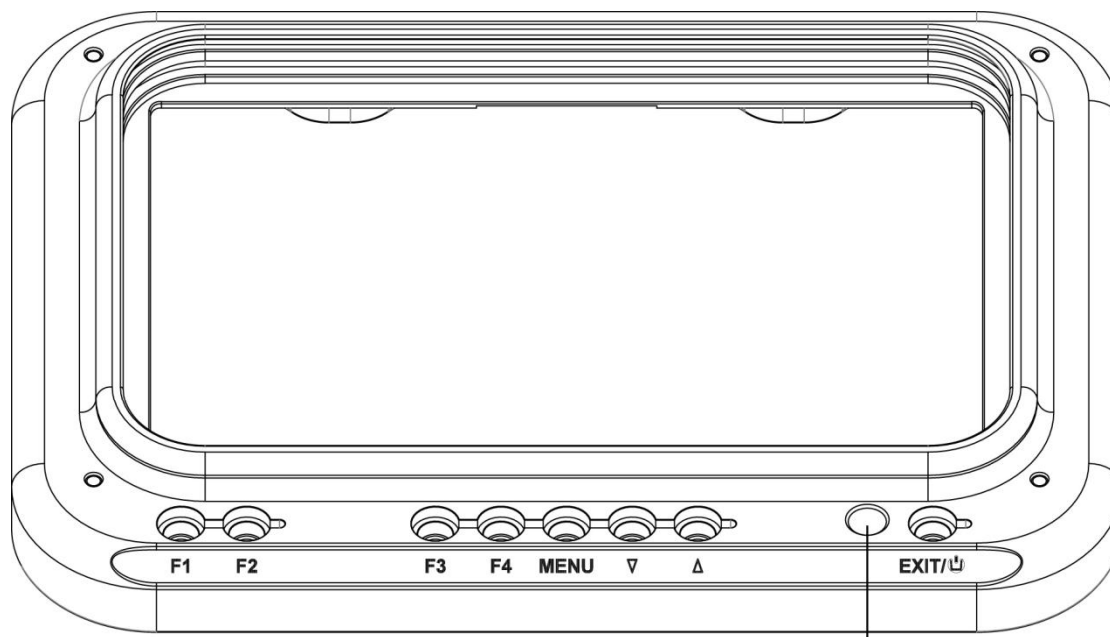
Battery indicator
Blue: 75%~100%
Green: 60%~75%
Red: Less than 60%

Button	Function when OSD is not displayed	Function when OSD is displayed
F1	Custom button F1	N/A
F2	Custom button F2	N/A
F3	Custom button F3	N/A
F4	Custom button F4	N/A
MENU	Display OSD main menu	Confirmed Select
∨	Reduce the backlight brightness	Select next menu item
∧	Increase the backlight brightness	Select previous menu item
EXIT/POWER	Power on/off button	Return to previous OSD m

2. Rear Panel Instruction

Ball Mount

HDMI-IN
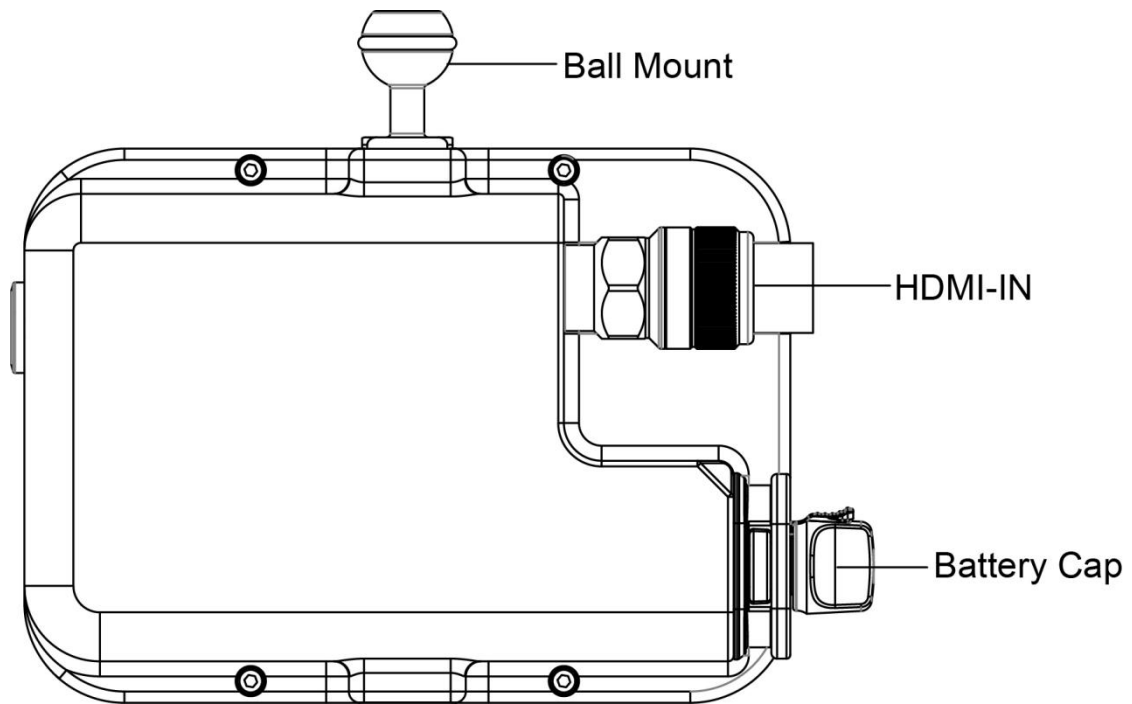
Battery Cap

3. Battery / Charger

1. Only used the battery provided by the manufacturer.
2. Do not open the battery cap when the monitor is in the water.
3. If the monitor will not be used for a long period of time, the batteries should be removed.
4. To charge the battery, use the USB-C PD charger included with your monitor.
5. When the battery begins to charge, the indicator light on the battery will be RED.
6. When the battery is fully charged, the indicator light on the battery will change to BLUE.

Operating Your Monitor

- After correctly installing the battery, press and hold the "POWER" button for one second. The indicator ring will be blue or red and the monitor will turn on.
- When the menu is not displayed,pressing the ∨or ∧ button will allow adjustment of the backlight.
- Press the **MENU** button to access the main menu. Use the ∨or ∧buttons to scroll through the menu categories across the top. Once you have selected the desired menu category, use the ∨or ∧ buttons to scroll through the list of items within that category. Press the **EXIT/POWER** button again to return to the previous OSD menu, or waiting a few seconds time to exit the menu auto.

Shortcut Key

The Four shortcut key buttons F1,F2,F3 and F4 can be programmed with a feature of your preference. To set each button, select the menu category, then press the ∧ button to select "User option", then select " Shortcut Key", after then press the ∨or ∧ buttons to scroll through the feature options, and press the **MENU** button to confirm your selection and program the shortcut button.

Options: safe frames, check field, focus assist, aspect ratio, image flip, image freeze, histogram, false colours, over exposure, embedded audio, nine grid, zoom, anamorphic, center marker

Menu Categories and Options

Assistant

Menu Items	*Options*
All Waves	Off, On
Waveform	Off, On,Mode,Waves Trans
Vector	Off, On
Histogram	Off, On,Mode
Focus Assist	Off, On,Color,Peaking Level
Embedded Audio	Off, On
Zebra Pattern	Off,On,Threshold Value
Check Field	Off, On,Mode
False Colors	Off, On,Mode

Marker

Menu Items	*Options*
Grids	Off, On,Mode,Rows,Columns,Color
Safe Frames	Off, 80%, 85%, 90%, 93%, 96%, 2.35:1,9:16
Center Marker	Off, On,Color
Ratio Marker	Off, 4:3, 13:9, 14:9, 15:9, 16:9, 1.85:1, 2.35:1,9:16,1:1
Mark Colour	Red, Green, Blue, Black, White,Gray
Modified Mark	0∽5

Image

Menu Items	Options
Scan Mode	Under Scan,Over Scan
Aspect Ratio	Auto,16:9,16:10,4:3,5:4,1.85:1,2.35:1,Full Scre...
Anamorphic	Off,On,Mode,User
Image Flip	Off, On,Mode
Zoom Mode	Off, On,Mode,User
Image Freeze	Off,On
P2P	Off,On

User option

HDR	Off, On,Mode
Display Adjustment	Backlight,Brightness,Contrast,Saturation,Tint
Color Adjustment	Display Range,Color Temp,Red,Green,Blue
Shortcut Key	F1 All Waves,F2 Center Marker,F3 Safe Frames,F4 False Colors
Left Right Key Set	Volume Backlight

![Settings gear icon]

System

User Switch	**1,2,3,4**
Languages	English, 简体中文, Español, Português, Français, Nederlands, Deutsch, 日本語, 繁體中文, **한국어로**, **руссКий языК**
OSD Option	OSD Time: Off, 15 seconds, 30 seconds, 45 seconds OSD Trans: Off,25%,50%,75% No Signal: Red Green,Blue,Black,White,Gray
EDD Settings	2.0,1.4
Volume	Off, On,0~100
Power Setting	Auto,Manual
Reset	Confirm

Technical Parameters

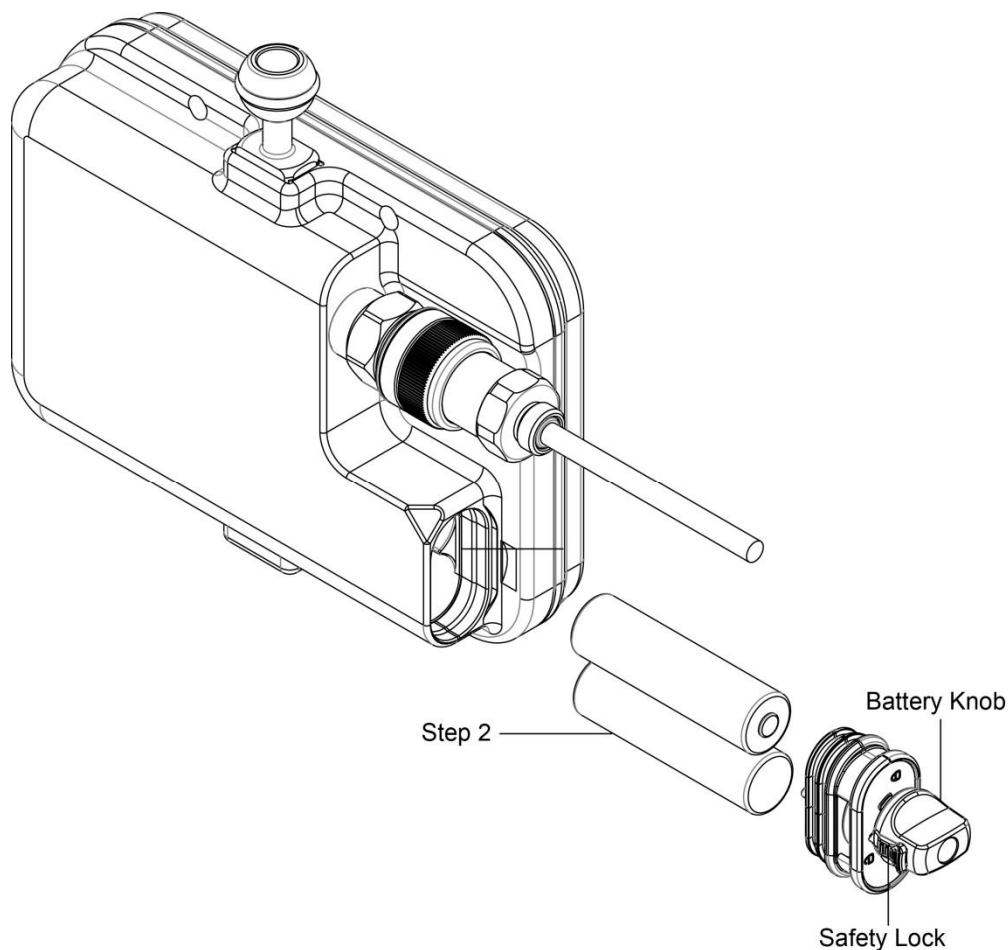|	
Panel Size	7" IPS
Resolution	1920x1200 pixels
Dot Pitch	0.07875(W) x 0.07875 (H)mm
Aspect Ratio	16:10
Brightness	2200cd/m^2
Contrast	1200: 1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Input	HDMI
HDMI Input	480i/576i/480p/576p 720p(60/59.94/50/30/29/25/24/23.98) 1080i(60/59.94/50) 1080p(60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) 4K UHD 3840×2160p (30/29.97/25/24/23.98 Hz) 4096×2160p (24Hz)
Power Consumption	≦18W
Unit Size	220Lx147Hx90D (mm)
Unit Weight	2214g on land/560g underwater (With battery)
Mount Points	1/4"-20 Thread Point (For mounting ball)
Working Temperature	-20℃~55℃
Storage Temperature	-30℃~65℃
Depth Rating	80 meters/266ft

Installing the battery

Step 1: Push out the red safety lock,at the same time rorate the battery knob as counter-clockwise,then take the battery cover out.
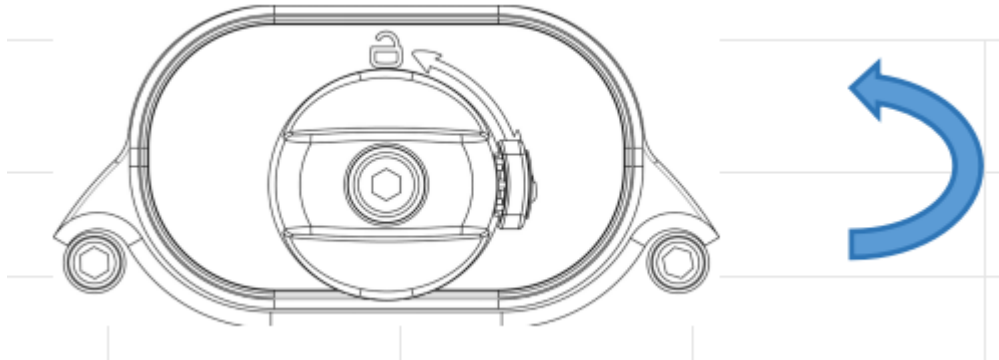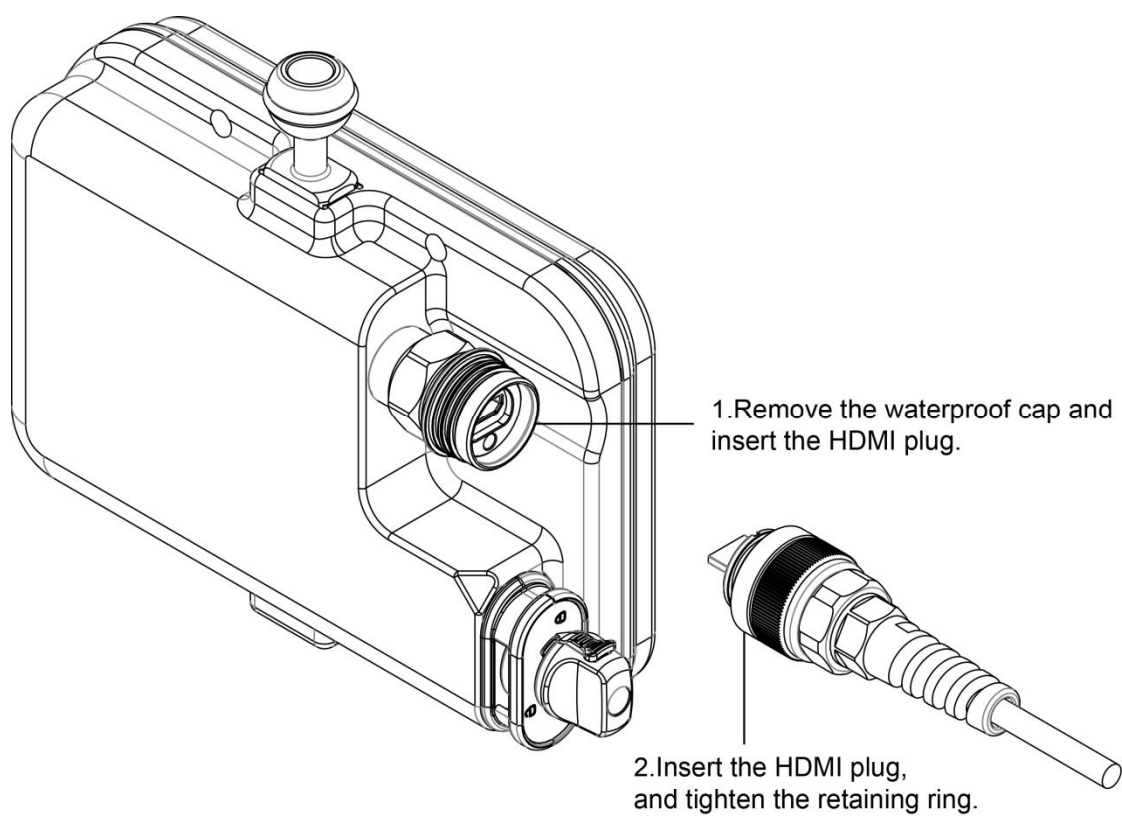

Step 2: Put the batteries as below shown (Correct direction/positive and negative anodes) to the body,press the battery cover at the same time rorate the battery knob as clockwise.
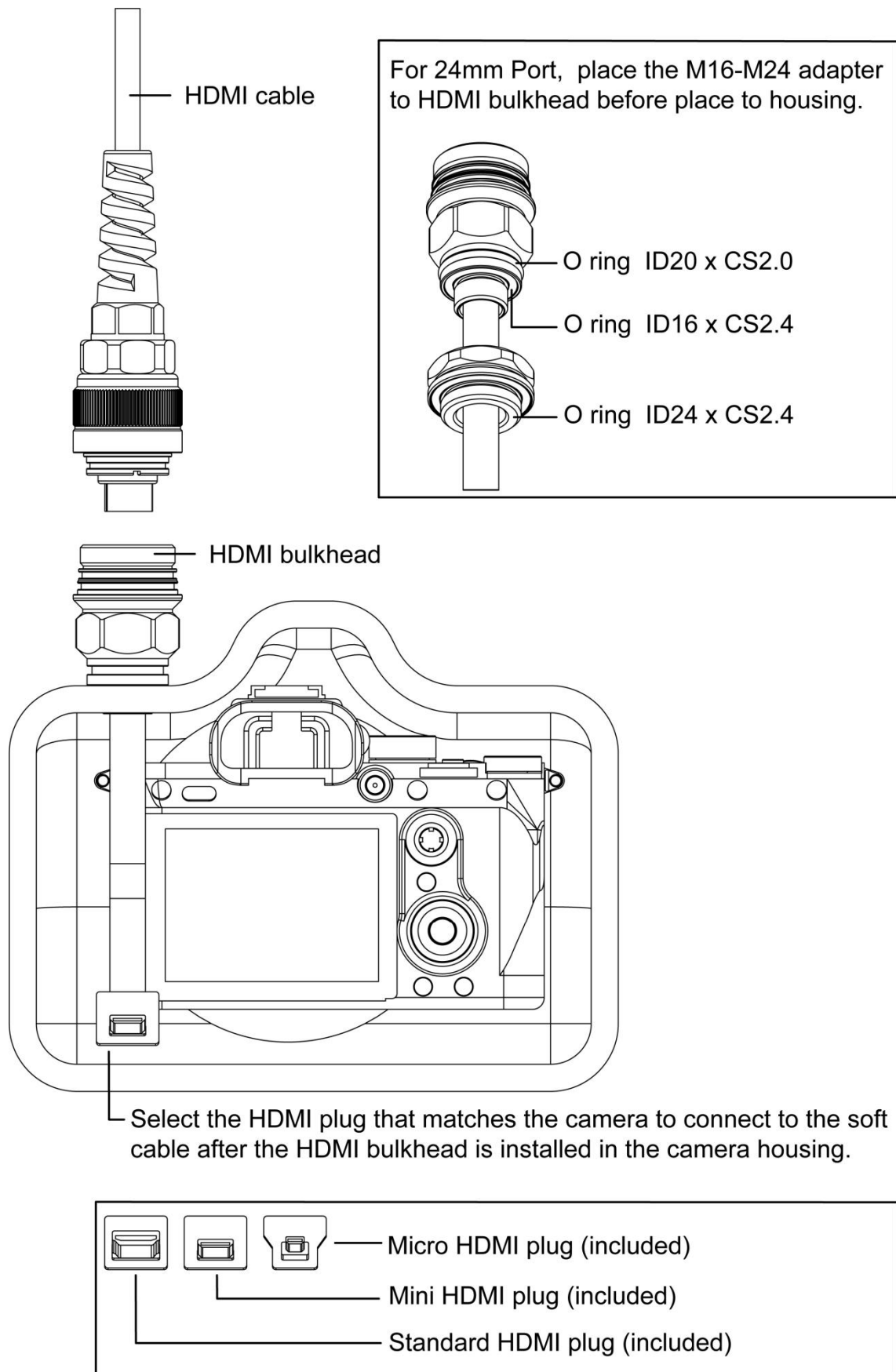Noted:Make sure that the safety lock has returned to the locked position.(It is securely locked when you hear a "click")

Step 2

Battery Knob

Safety Lock

Connecting the HDMI cable to the monitor

1. Remove the waterproof cap and insert the HDMI plug.

2. Insert the HDMI plug, and tighten the retaining ring.

Connect to camera housing

HDMI cable

For 24mm Port, place the M16-M24 adapter to HDMI bulkhead before place to housing.

O ring ID20 x CS2.0

O ring ID16 x CS2.4

O ring ID24 x CS2.4

HDMI bulkhead

Select the HDMI plug that matches the camera to connect to the soft cable after the HDMI bulkhead is installed in the camera housing.

Micro HDMI plug (included)

Mini HDMI plug (included)

Standard HDMI plug (included)

Troubleshooting

Monitor showing only black and white, or monochrome picture.

- Check saturation, brightness & contrast adjustment.
- Check if **Check Field** in the menu is in black, white or monochrome image or other condition.

There is no image after powering the monitor on.

- Check HDMI cable, cable connections, and if monitor is synchronized with the input signal.
- Check signal cable connection, and make sure to use the standard adapter to connect the monitor. If power is supplied by battery, please check if the battery is fully charged.

As we are constantly striving to improve performance, these specifications are subject to change