# KRAKEN SPORTS

# KRH TG-Pro

## Operation Manual for Dive Housing
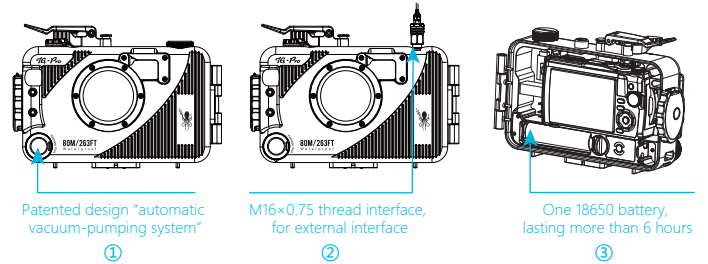


80M/263FT
Waterproof
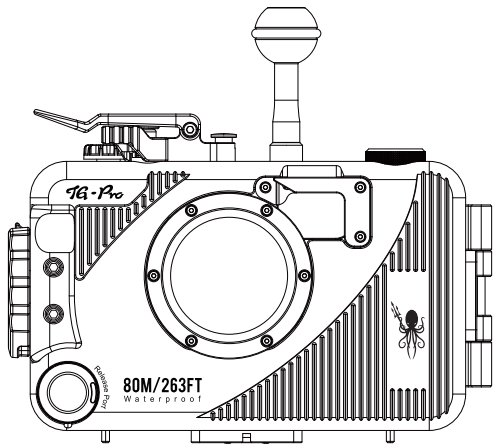
Please read this manual carefully before use and keep for future reference
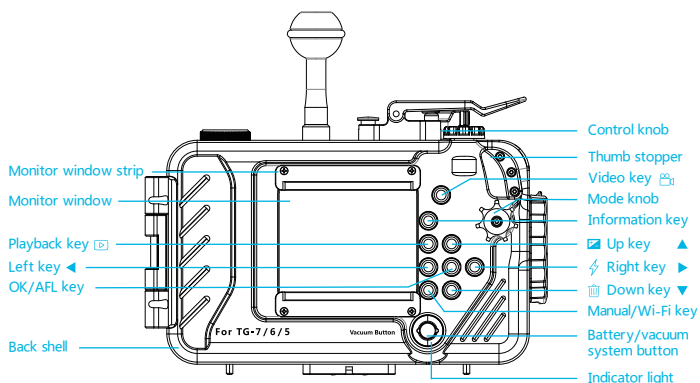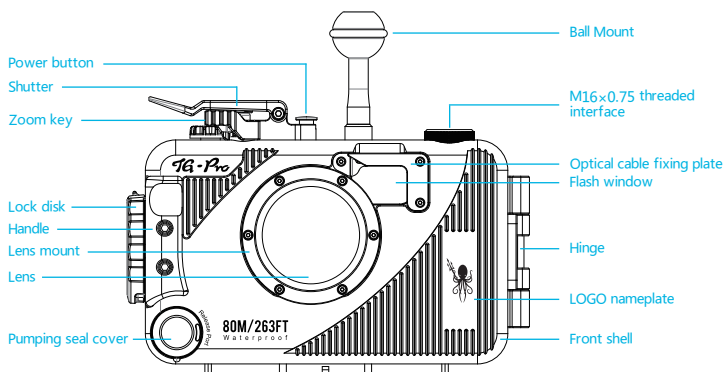
## Product Introduction

KRAKEN KRH TG-Pro Dive Housing is a professional waterproof camera shell created specifically for underwater photographers. The front and back shell of the product are hard anodizing black aluminum alloy, with a water-resistant depth of 80m and equipped with an automatic vacuum-pumping system to ensure the housing is water tight. In addition, it can be connected to an external display (M16 thread interface), and allows the camera to be charged while using the housing, greatly improving its usage time.

## Product Features



Patented design "automatic vacuum-pumping system"
①

M16×0.75 thread interface, for external interface
②

One 18650 battery, lasting more than 6 hours
③

① The KRAKEN "automatic vacuum-pumping system" provided can be used to detect whether the product is properly sealed before the entering the water, providing peace of mind to the diver.
② The product is equipped with M16×0.75 thread interface, which allows the connection of an external display through the camera's HDMI interface. The external display with large sight window makes it easier for users to view and correct the picture in real time, leading to better quality photos.
③ The product is equipped with an 18650 Lithium ion battery, which can supply power to the vacuum-pumping system and charge the camera through its built-in 5V power supply system. The camera can last more than 6 hours under normal shooting conditions.

## Description of components



Ball Mount
Power button
Shutter
Zoom key
M16×0.75 threaded interface
Optical cable fixing plate
Flash window
Lock disk
Handle
Lens mount
Lens
Hinge
LOGO nameplate
Pumping seal cover
Front shell
80M/263FT Waterproof



Monitor window strip
Monitor window
Playback key
Left key ◄
OK/AFL key
Back shell
Control knob
Thumb stopper
Video key
Mode knob
Information key
Up key ▲
Right key ►
Down key ▼
Manual/Wi-Fi key
Battery/vacuum system button
Indicator light
For TG-7 / 6 / 5    Vacuum Button

## Operating Instructions

### Turning ON/OFF
To turn on: press and hold the Battery/vacuum system button for 1 second to turn on the housing, indicator light will turn on.
To turn off: In the on state, long press the key for 3 seconds to shut it down.

### Battery indicator and vacuum-pumping system
The indicator light of the product is used both for power status and vacuum detection status; it indicates the percentage of battery level within the first 5 seconds after startup; it then indicates vacuum detection status after going off for 2 seconds.

| Indicator light | Battery level |
| --- | --- |
| Blue light | 80~100% |
| Green light | 30~80% |
| Red light | 10~30% |
| Red light flashing | <10% |

### Vacuum detection function
After startup, press the vacuum seal button to begin sealing. Once the seal is complete, the air pump will automatically stop.

| Indicator light | Pressure in the shell | Working state |
| --- | --- | --- |
| Red light flashing | Normal pressure | Pumping or intaking disabled |
| Red and green lights flashing alternately | Pressure change | Pumping or intaking |
| Green light flashing | Negative pressure | Pumping completed and sealed |

### 5V power output control
While powered on, long press the battery/vacuum system button for 1 second to cycle the 5V power output on/off

### Installing optical cable and remote control
It is recommended that only the optical cable included be used. To use, insert the optical cable in the optical cable fixing plate on the waterproof shell, and connect the other end to the external flash to trigger it.

### Inspecting the O-ring
Frequent opening and closing of the shell to remove and insert the camera may cause the main O-ring to collect debris, making it dry and unlubricated. Be sure to inspect the O-ring regularly, and if damaged, replace it with the spare O-ring provided.
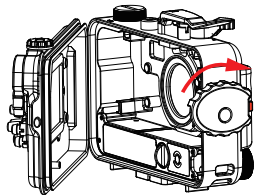
### Replacing the O-ring
To replace the O-rgin, remove the existing O-ring from the body of the housing with the included disassembly tool, ensure the O-ring cavity is clean, and insert the spare O-ring (ensure spare O-ring is lubricated).

## Opening and closing waterproof shell
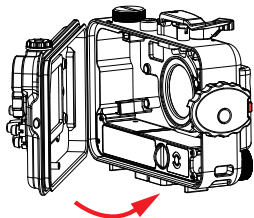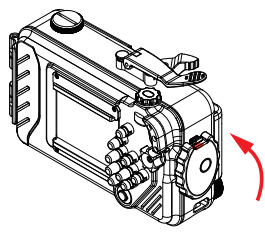
### Opening the waterproof shell:
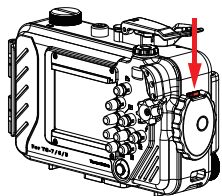
| | |
|---|---|
| 1. Press the latch. | 2. Turn the lock disc 90° clockwise to the position that allows the door to open. |

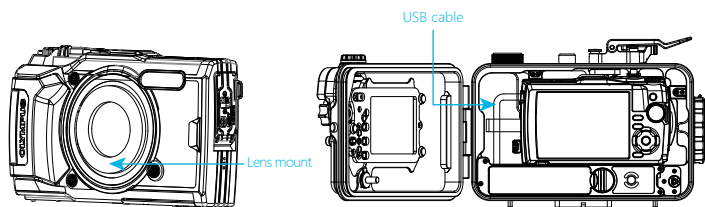### Closing waterproof shell:

| | |
|---|---|
| 1. Close the waterproof shell in alignment with the notch of the lock disc. | 2. Turn the lock disc 90° counterclockwise until the door remains locked. |

## Mounting the camera

USB cable

Lens mount

Camera

* The lens mount must be removed before mounting the camera in the waterproof shell.

1. Insert the USB cable into the charging interface of the camera
2. Place the camera in the waterproof shell as shown
3. Close the waterproof shell and check that all controls of the shell are used correctly.

④

## Accessories in package

| | | | | | |
|---|---|---|---|---|---|
| KRH TG-Pro x1 | HDMI-DD-C3 x1 | Ball head x1 | Hand strap x1 | Adapter board x1 | |

| | | | | |
|---|---|---|---|---|
| WFA76 x1 | Spare O-ring x1 | Silicone oil x1 | Hex wrench x1 | Disassembly tool x1 |

## Specification

| | |
|---|---|
| **Applicable camera** | OLYMPUS TG7 / TG6 / TG5 camera |
| **Display window** | Hardened PC |
| **Battery** | One 18650 battery WBL-11N |
| **Water-resistant depth** | 80m/264ft（IP68) |
| **Threaded interface of lens** | M52x0.75 |
| **External thread** | M16×0.75 (for external interface) |
| **Material** | Aluminum alloy |
| **Surface treatment** | Hard anodizing |
| **Dimension** | 185.9x75x128.2mm |
| **Weight** | 1155g (with camera + battery on land)<br>300g (with camera + battery underwater) |

## Battery installation and use

18650 lithium battery

Open the battery cover    Battery cover knob switch

Open state    Closed state
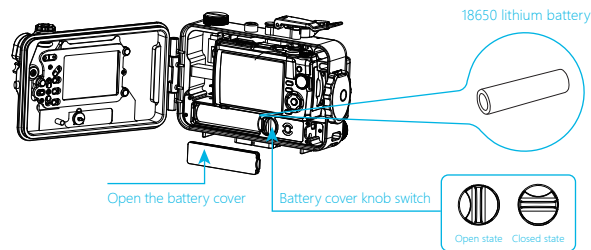
1. Turn the battery cover knob to the open state, then open the cover and install the 18650 lithium battery (notice the positive and negative electrodes).
2. Close the battery cover and turn the knob to the closed state.

*Ensure sure the battery is charged prior to installing.

## Checking waterproof shell

Check the main O-ring to ensure that there is no debris, broken filament, damage, or indentation that could result in leakage.

**◆ Water leakage function detection**
1. Before use, unscrew the pumping seal cover, and press the vacuum system button to begin sealing, the indicator flashes between red and green when sealing. When complete the flashing light will change to green and the motor will stop. Replace the pumping seal cover and tighten .
2. Wait 30 minutes. If at this time the water leakage detection indicator is still flashing green, the shell is properly sealed, and it can then be used in the water.

● The red light flashes before sealing
● The red and green lights flash alternately during sealing
● The green light flashes after sealing

3. If the red and green lights still flash alternately after sealing the waterproof shell is poorly sealed and must be checked before use.
4. Before opening the waterproof shell after use, open the pumping seal cover and press the air releasevalve to inject air back into the housing.

* Attention: Be sure to tighten the pumping seal cover before entering the water.

⑤

## Prior to inserting the camera

Always ensure the following before placing the camera into the housing:
1. Confirm the battery is loaded ;
2. Remove the hand strap the camera. If the camera is loaded without removing the hand strap, the hand strap may get caught between the camera gap and cause water leakage
3. Remove the lens mount from the digital camera and install it to the waterproof shell of the housing

## Product Safety and Information

* Do not disassemble the waterproof shell yourself to avoid damaging the shell.
* Do not place the waterproof shell in direct sunlight or high temperature for extended periods of time.
* During long periods of inactivity, remove the battery and store it in a cool, dry place.
* Before use, carefully check the O-ring to ensure it is not damaged, with no sand or other debris attached. The included disassembly tool should be used to disassemble the O-ring for cleaning. To avoid damage, do not disassemble with sharp tools. Use only water to clean the O-ring to avoid aging and deformation.
* Only use included silicone oil (lubricant) and included O-rings.
* Do not open the waterproof shell while underwater.
* After leaving the water, be sure to wipe off water on the surface of the shell before opening it, so as to avoid water entering the interior and damaging the internal parts.
* After use, be sure to shake the waterproof shell in fresh water and soak for 30 minutes to remove any salt and impurities attached to the diving recorder and avoid corrosion and rust of metal parts on the waterproof shell. Rust that develops as a result of a failure to clean the housing will void any warranty.

## Quality Assurance

We guarantee against manufacturer defects for 1 year from the date of purchase. Manufacturer defects occurring within 15 days from the date of purchase will result in replacement of the product, defects occurring within 1 year from the date of purchase will be repaired free of charge.

The warranty excludes the following circumstances:
1. Damage caused by failing to use, maintain and store the product in accordance with the operation manual
2. The product is repaired or altered by unauthorized service office or personnel
3. Damage caused by force majeure, e.g., geological disaster, war, etc.