ACE PRO

User Manual
English





Underwater Housing for Action Cam
compatible models Insta360 Ace Pro - Ace Pro 2

CARBONARM.COM

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External Views

M14 predisposition plug

M6 threaded hole for ball mount with anti-rotation pin hole

Rec/Photo button



Rear housing body in 40-micron anodized aluminum

Rear screen in Plexiglass

Rear protective zinc

Body protective zinc

Stainless steel locking hook plate

3x M4 threaded holes for filter or lens supports









Stainless steel locking lever

Integrated ring for lanyard

Front screen in Plexiglass

Housing body in 40-micron anodized aluminum

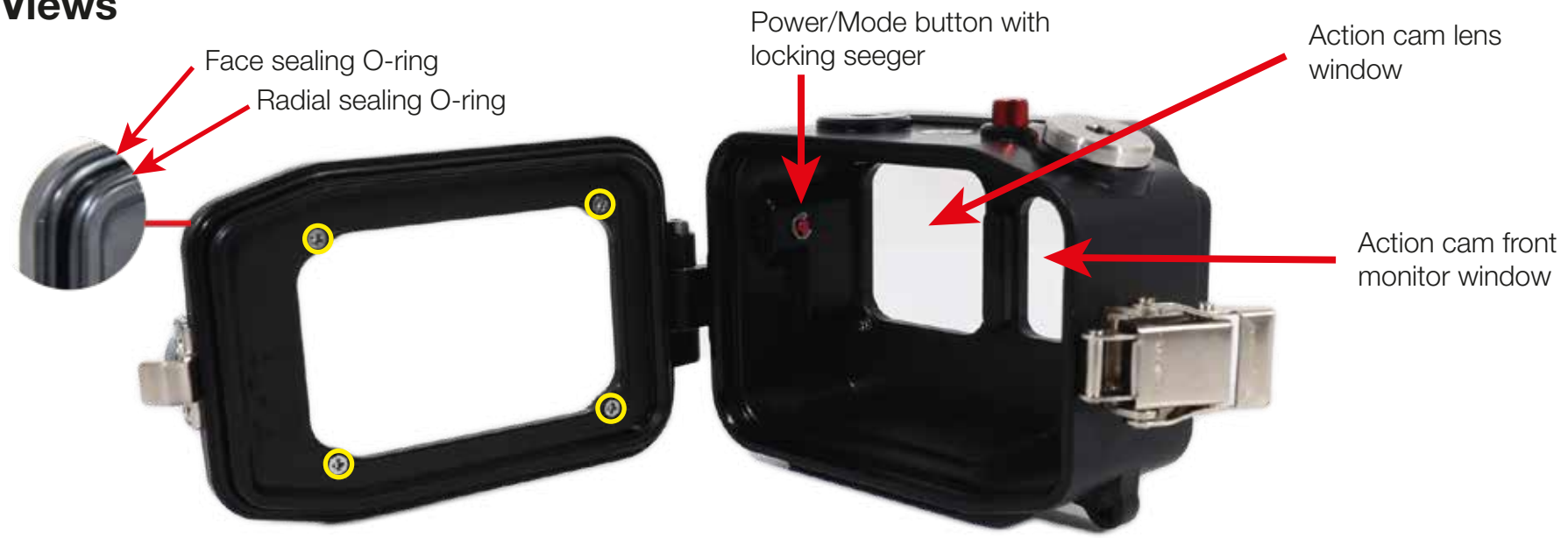


Power/Mode button

3x 1/4” threaded holes

N2x M6 threaded holes

Internal Views



8x screws for securing front and rear screens



Opening and Closing the Housing

Opening Technique



1.Use the locking lever



2.Lift the lever while maintaining contact with the locking hook plate



3.Apply pressure on the locking plate



4.Continue pressing until the rear cover opens



5.Remove the lever from the hook



6.You can now open the rear cover

Closing Technique



1.Bring the rear part close to the housing body



2.Press the rear part with your hands



3.Keep pressing until the rear part fully contacts the housing body

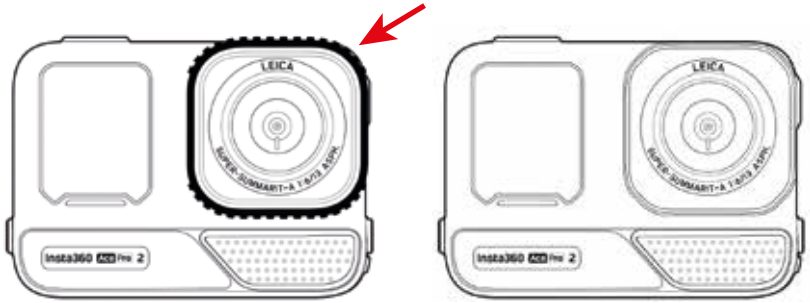


4.Insert the locking lever



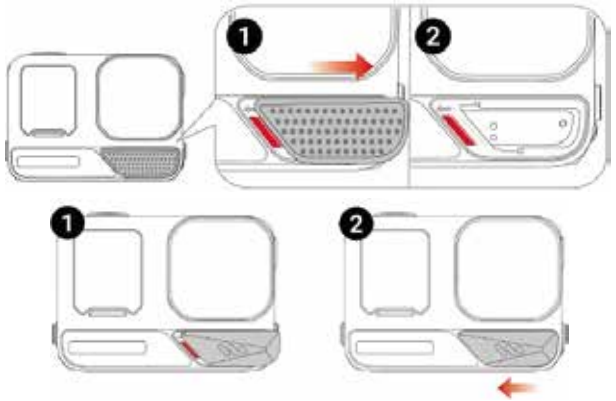
5.Lock the lever. The housing is now perfectly closed

Using the Ace Pro



1.On the Ace Pro 2 model, you must remove the rubber protection around the lens, if present. This allows the action camera to be inserted into the housing and closed without obstruction.





2.In the Ace Pro 2 model, you must remove the Wind Guard by sliding it to the right and insert the standard microphone protection cap by sliding it to the left. Without doing this, you will not be able to insert the Ace Pro 2 into the housing.



3.Insert the Ace Pro or Ace Pro 2 into the housing so that the action camera lens fits perfectly into the dedicated window.





4.Press the side button to turn on the action camera. When turned on, pressing the button once allows you to scroll through the modes. During REC, it allows you to mark highlights. You can customise the button functions in the dedicated menu. Press for 1 second to turn off the action camera.

5. Press the top button to start or stop recording, or to take a photo.

Good Practices

1. Visual inspection before each use

- Carefully inspect the housing to ensure there are no cracks, deep scratches, or deformations.
- Check that the buttons are intact and functioning properly; the spring should return the button to its position when pressed.
- Make sure the O-rings are seated correctly and show no signs of wear, dirt, hair, or sand.

2. Cleaning the O-rings

- Remove the O-rings only if absolutely necessary and one at a time: they are different and should not be swapped.
- Before each dive, gently clean the O-ring area with a clean, dry cloth.
- Apply a light layer of silicone grease or petroleum jelly, spreading it evenly. Only a minimal amount is needed.

3. Correct opening and closing

- Ensure that no cables, straps, or other objects interfere with the watertight closure.
- Always follow the opening and closing technique described at p.5. Improper technique may compromise the housing's seal.

4. Post-dive cleaning

- After each dive, thoroughly rinse the housing with fresh water to remove salt, sand, or chlorine.
- Allow the housing to dry completely before opening or dry it thoroughly with a cloth.
- If possible, submerge the closed housing in a container of fresh water for a few minutes and operate all buttons to flush out any debris.
- If using the housing on a tray secured with screws, periodically remove the screws to clean any accumulated salt.

5. Storage

- Store the housing in a dry, clean place away from direct sunlight.
- Keep it closed and sealed, especially during long periods of inactivity.

Warnings

1. Housing on an airplane: during air travel, do not fully seal the housing. Rest the rear cover on the housing body without pressing it closed. This avoids difficulties in opening due to cabin pressurization.
2. Orings: never remove the O-rings from the housing. Before each dive, it is advisable to lightly lubricate them with silicone grease or petroleum jelly. Only a minimal amount is needed.
3. Housing storage: always store the housing sealed in a cabinet, even when not in use.
4. Opening and closing the housing: always open and close the housing in a vertical position to prevent external water drops from entering.
5. **Seal check**: when closing the housing, ensure there are no cables, straps or other elements obstructing complete closure.
7. **Protective zinc:** the housing features two protective zincs that prevent the aluminum body from oxidizing during dives. The zinc will visibly change after the first few dives and should be replaced once a year during routine maintenance. Never dive without the protective zinc installed.
6. **Scratches on Plexiglass screens:** both the front and rear screens are made of plexiglass, so be careful not to scratch them during use. It is recommended to purchase caps or protective covers to protect the screens during transport. Both screens can be replaced using the replacement kit available at Carbonarm.com.
7. **Protective zinc**: the housing features two protective zincs that prevent the aluminum body from oxidizing during dives. The zinc will visibly change after the first few dives and should be replaced once a year during routine maintenance. Never dive without the protective zinc installed.

Warranty and Maintenance

The Carbonarm underwater housing for Ace Pro Carbonarm is covered by the official Carbonarm.com warranty, protecting against manufacturing defects in materials and workmanship. The warranty period is 12 months from the date of purchase. For non-EU countries, we extend this period by an additional 6 months. The warranty can be renewed annually, provided that standard maintenance is performed at Carbonarm. Each time maintenance is completed, the warranty is automatically extended for an additional 12/18 months. This cycle can be repeated indefinitely, making the warranty potentially unlimited, as long as the maintenance schedule is followed.

The warranty does not cover:

- Damage caused by improper use, impacts, or negligence.
- Water infiltration due to incorrect closure, inadequate maintenance or non-compliant use.
- Unauthorized repairs or product modifications.

To request warranty service, you must present proof of purchase and register the product via the following link:
https://carbonarm.com/en/product-self-registration

Annual standard maintenance is essential to ensure optimal performance and continuous warranty coverage.
It includes:

- General housing inspection
- O-ring inspection and replacement if necessary.
- Internal and external cleaning.
- Pressure seal test

It is recommended to perform maintenance at least once every 12/18 months or every 100 dives, whichever comes first. Failure to perform maintenance will void the warranty

To book maintenance, visit https://carbonarm.com/en/ or contact Carbonarm customer service.

Technical Specifications

Length	11,2 cm
Height	7,4 cm
Width	6,4 cm
Dry Weight	412 g
Weight in Water	280 g
Body Material	40-micron anodized anticorodal aluminum
Screens Material	Plexiglass
Maximum Depth	250 meters
Thread Size	2x M6 and 3x 1/4” lower — 1x M6 upper
Predispositions	Adapters for additional filters and lenses
Controls	2 mechanical buttons
Compatibility	Insta360 Ace Pro - Ace Pro 2

Accessories List



















Discover all available accessories at carbonarm.com

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ACE PRO