

INON

UFL-GR140Pro ZD

Underwater Semi-fisheye

Conversion Lens

User Manual

Safety Precautions

- Before using your lens, please ensure that you have read and understood the safety precautions described below and user manuals. Please retain user manuals handy for easy reference.
- The safety precautions are intended to instruct you in the safe and correct operation of the strobe to prevent injuries or damage to yourself, other persons and equipment.



WARNING

Failure to observe the precautions described below may lead to possibility of serious injury or death.

Never attempt to see the sun or strong light source through the lens or camera to avoid irreparable injury to the eyes, or temporary visual impairment which may affect your performance requiring safety aspects.

Do not leave the lens in a place subject to direct sunlight to prevent fire which may be caused by the lens collecting sunlight

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INON UFL-GR140 Pro ZD Underwater Semi-fisheye Conversion Lens

Thank you for purchasing INON product.

The UFL-GR140 Pro ZD is an underwater semi-fisheye conversion lens using an optical glass dome for those seeking professional quality results.

Using the UFL-GR140 Pro ZD benefits you to enjoy extremely wide angle of view underwater nearly the same angle as shooting on land and enabling super close-up imaging which would not be possible by a camera only.

Compatibility

Besides your camera, this lens requires **genuine dive housing** and INON "**ZD Front Mask**". Check below table to prepare necessary item(s) according to your camera.

Manufacture	Camera	Genuine housing	INON Front Mask
GoPro	HERO13/12/11/10/9 Black	Dive Housing (for HERO13/12/11/10/9 Black)	ZD Front Mask for HERO12
Insta360	Ace Pro	Dive Case (for Insta360 Ace Pro)	ZD Front Mask for Ace Pro

Features

- The native coverage of action camera gets narrow down underwater due to different refraction index. INON *UFL-GR140 Pro ZD* provides ultra wide semi-fisheye imaging with **underwater angle of view 140°(*1)** enabling wild underwater video work as like using the camera on land.
- Supports wide-angle shooting modes of action cameras and quality larger sensors. **GoPro's 8:7 frame/aspect ratio** shooting mode (available from HERO11 and newer), and **Insta360 Ace Pro's widest FOV, [ActionView]**, can be used without vignetting.
- INON *UFL-GR140 ZD* provides **closer minimum focusing distance** supporting you to shoot a subject at close range to enjoy deformed result (*2).
- Bayonet **INON ZD Mount** compatible to support friendly and speedy lens exchange underwater.
- Optional INON "**ZD Lens Holder**" can hold the *UFL-GR140 ZD* securely with its built-in locking system when the lens is not in use.
- Optics is precisely designed to deliver quality image from minimum focusing distance through infinity.
- The glass dome has multi-coating on the inner surface to suppress flare/ghosting effectively for high reproduction performance.

(*1) Maximum angle of view (field of view) by using this lens. It varies among different action cameras.

(*2) Refer to *Depth of Field (DoF) Range* on the last page of this manual to see measured DoF data of each camera.

Package Contents

- UFL-GR140 Pro ZD ①
- Lens Hood GR140 ②
- Hollow Screw ③×4
- Front Cap (rubber/with lanyard) ④
- Rear Cap (PC) ⑤
- Allen Wrench (WAF1.3mm) ⑥
- Spare Hollow Screw x 1 ⑦
- Detachable Strap ⑧
- Pouch



Installation on ZD Front Mask

- Match **Guide A [Lens]** with **Guide A [Mask]** as in below left image and put the male bayonet mount of the lens in the ZD Front Mask.
- Rotate the lens clockwise until **Guide A [Lens]** is coupled with **Guide B [Mask]** where you should feel and hear **clicking**.
- When removing the lens, with pressing the Lock Lever, rotate the lens counterclockwise.

! When unlocking, press the lock lever firmly before turning the lens. The lens will not unlock if any force is applied to the lens before the lock lever is pressed.



- Once submerged, remove the lens underwater and shake it well** to drop trapped bubbles especially from the rear lens surface then install the lens on the ZD Front Mask again following same procedure.

Installing Lens Hood

After lens installation, **please make sure the “screw hole” under the INON logo on the hood and the “Guide C (▲)” on the top of the front mask are aligned.**

The lens hood is pre-installed on the lens so that the hood position will be as per right image when attached to the “ZD Front Mask for HERO12” and “ZD Front Mask for Ace Pro”.

Removal and reinstallation

- Remove the four hollow screws from the lens hood using the supplied Allen Wrench, and pull out the hood.
- After attaching the lens body to the front mask, reinstall the lens hood over the lens body all the way so that the hood is positioned as explained above.
- With holding the lens hood, lightly and evenly tighten the four hollow screws little by little drawing cross pattern.

! DO NOT overtighten as overtightening can damage the lens hood.



Attaching Strap

The lens mount has a strap eyelet. Attach the supplied detachable strap to prevent accidental falling of the lens.



Usage

- This **lens is designed only for underwater use**. (When using on land, distant subject is not in focus and angle of view is not as wide as rated)
- Incomplete/improper lens hood installation can cause vignetting. When using the lens hood, refer to "Installing Lens Hood" section in this manual and make sure to install the lens hood properly and completely.

Handling Precautions

- **Do not place facing down the dome lens surface. Doing so may cause scratches.**
The dome lens surface protrudes beyond the lens hood not to have vignetting even shooting at wide mode. Make sure to attach the front cap when placing the lens facing downwards.
- **Follow instruction/procedure in this manual to install the lens properly on the ZD Front Mask and make sure to check if the lens is properly coupled with the Front Mask when the lens receives impact shock.** The lens may be accidentally disengaged when hitting on a rock etc. When using underwater, periodically check if the lens is firmly attached on the *ZD Front Mask*.
- **DO NOT hold this product only to transport whole system** to avoid accidental damage on this product or separation of combined Front Mask. During transportation, make sure not to apply impact shock, vibration or excessive load.
- **After using, never put the lens caps on or place the lens in a carry pouch with any water (salt or fresh) remaining on the lens surfaces.** Doing so may degrade the coatings or dome material itself, or cause spotting or discoloration. Heavy surface degradation would necessitate replacing the damaged lens element which is **NOT** covered by warranty.
- **DO NOT disassemble.** Disassembling lens could cause damage and subsequent flooding, and will void warranty.
- **DO NOT** subject lens to large shocks or vibrations, which can lead to damage and possible flooding.
- **DO NOT** leave lens exposed to strong sunlight as the lens will collect and concentrate the sunlight, creating a fire hazard. Never attempt to see the sun or strong light source through the lens or camera to avoid irreparable injury to the eyes.
- **DO NOT** leave lens exposed to strong sunlight such as a boat deck or to high temperatures like in sun-heated car etc. to prevent damage and subsequent flooding.
- **DO NOT** use the lens if you observe any damage on the lens surface to avoid possible flooding.

Maintenance

- After using, **always remove this product from the Front Mask and separate the lens hood**. Soak the lens in fresh water (below 30°C/ 86°F) for several hours to dissolve any remaining salt, then take out the lens and **blow off water droplets** by compressed air etc. Leave the lens at **shaded** and well-ventilated area to dry **with no water drops on the both lens surfaces** (it may take several days to completely dry).

Storage

- **After completely dry, put lens caps on,** and store out of direct sunlight and well-ventilated area. **DO NOT** store the lens in area with chemical fumes, high humidity or extreme temperature fluctuations. Storage in such area may lead to damage, water leakage, lens surface degradation or mold.
- Keep the product out of reach of children. They may swallow parts of this product. See a doctor immediately if a child swallow parts.

Specifications

INON UFL-GR140 Pro ZD Underwater Semi-fisheye Lens Specifications(*1)

Model	UFL-GR140 Pro ZD
Size (*2)	φ 103.1mm/4.1in x 46.8mm/1.8in
Weight (*2)	Air. Approx. 475g/16.7oz, underwater approx. 262g/9.2oz
Lens mount	INON ZD Mount
Depth rating	60m/197ft
Body material/finishing	Corrosion-resistant aluminum alloy/rigid black almite, PC
Lens material/finishing	Optical glass/ inner multi-coating
Underwater FOV (*3)	Approx 140°

Depth of field with UFL-GR140 Pro ZD (*4)

Mfr.	Camera	DoF	Remarks
GoPro	HERO13/12/11/10/9 Black	4cm/1.6in through infinity	(*5)
Insta360	Ace Pro	7cm/2.8in through infinity	

[*1] Specification is subject to change without prior notice

[*2] Including *Lens Hood*

[*3] Maximum angle of view underwater. It varies among different action cameras.

[*4] Measured DoF from foreground of the lens surface. Divide by 1.33 for visual distance underwater.

[*5] Measured distance underwater for HERO13 Black/Hero12 Black/HERO11 Black/HERO10 Black/HERO9 Black. Other Edition has not been tested.

[*6] All brand name, product name and function name in this manual are trademarks or registered trademarks of respective manufactures

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