

INON UCL-G165II ZD

Underwater Wide Close-up 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

INON

INON UCL-G165 II ZD Underwater Close-up Lens

Thank you for purchasing INON product.

The INON **UCL-G165 II ZD** Underwater Wide Close-up Lens is dedicated wet lens designed for action cameras enabling super close-up/high magnification imaging which would not be possible with action camera standalone.

Compatible Product

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

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
	Ace Pro 2	Dive Case (for Insta360 Ace Pro 2)	ZD Front Mask for Ace Pro 2
	GO Ultra	Dive Case (for Insta360 GO Ultra)	ZD Front Mask for GO Ultra
DJI	Osmo Action 5 Pro	Waterproof Case for Osmo Action 5 Pro	ZD Front Mask for Osmo Action 5 Pro
	Osmo Action 6	Waterproof Case for Osmo Action 6	ZD Front Mask for Osmo Action 6

Features

- This lens **drastically shortens minimum focus distance underwater to 10cm/3.9in** supporting high magnification/close-up image.
- Maximum angle of view of action camera will narrow down underwater due to different refraction index. The INON **UCL-G165 II ZD** is a unique close-up lens providing slightly wide angle of view **underwater 110°** to have deeper depth of field (DoF) benefitting you with less out-of-focus close range clip which is not possible with standard close-up lens.
- Optional **Focus Stick (PAT.P)** greatly reduces blur clips as it provides visual reference of the minimum focus distance.
- Bayonet INON ZD Mount compatible to support friendly and speedy lens exchange underwater.
- Optional INON **ZD Lens Holder** can hold the **UCL-G165II ZD** when the lens is not in use.

Package Contents

- UCL-G165 II ZD ①
- Front Lens Cap (rubber/with lanyard) ②
- Rear Lens Cap (PC) ③
- Detachable Strap ④
- Pouch



Installing 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 bayonet mount.
- 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.
- Remove the lens underwater and shake it well to drop trapped bubbles from the rear lens surface then install the lens on the ZD Front Mask.

! 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.

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. On land, the lens cannot focus on distant subjects, and the apparent angle of view is reduced.
- For the available shooting modes for each camera model, please refer to the "Compatibility Chart" on our website.

Handling Precaution

- Follow instruction/procedure in this manual to properly install the lens on the *Front Mask* and make sure to check if the lens is properly installed. The lens may be dropped when hitting on a rock etc. When using underwater, periodically check if the lens is firmly attached on the housing.
- DO NOT** hold this product only to transport whole system to avoid accidental damage on this product or separation of combined Front mask. Hold the *camera system* during transportation.
- After using, never put the lens caps on or place the lens in a wet carry pouch with any water (salt or fresh) remaining on the lens surfaces. Doing so may degrade the glass coatings or the glass itself, or cause spotting or discoloration. Heavy surface degradation would necessitate replacing the damaged lens element(s) 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 the lens from the Front Mask**. Then soak the lens in fresh water (below 30°C/ 86°F) for several hours to dissolve any remaining salt 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).
- **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.

Option

• **Focus Stick for UCL-G165II**

A focus assisting device designed for this product. The tip of the stick indicates the minimum focusing distance of the UCL-G165 II, providing an easy visual reference of the minimum focusing distance. The ***Focus Stick*** can be set either at the top or bottom and rotates 360° from the base with a click every 90°, making it easy to instantly swivel the Focus Stick when not needed.



Specifications

INON UCL-G165 II ZD Underwater Wide Close-up Lens Specifications (*1)

Model	UCL-G165 II ZD
Size	φ77mm/3.0in × 25.2mm/1.0in
Weight	air: 211g/7.4oz, underwater: 129g/4.6oz
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/both side coating
Optical construction	2 groups 2 elements

Depth of field with UCL-G165II ZD (*2)

Mfr.	Camera	DoF	Remarks
GoPro	HERO13/12/11/10/9 Black	10cm/3.9in – 35cm/13.8in	
Insta360	Ace Pro 2	10cm/3.9in – 35cm/13.8in	
	Ace Pro		
	GO Ultra		
DJI	Osmo Action 6 (F2.8)	10cm/3.9in – 35cm/13.8in	
	Osmo Action 5 Pro		

(*1) Specification is subject to change without prior notice

(*2) Measured DoF from foreground of the lens surface. Divide by 1.33 for visual distance underwater.

(*3) All brand name, product name and function name in this manual are trademarks or registered trademarks of respective manufactures

INON Inc.

2-18-9, Dai, Kamakura
Kanagawa 247-0061

E-mail support@inon.co.jp

Fax. +81(0)467-48-2178

URL <http://www.inon.jp/>

February 2026