

INON UCL-G165 II M55

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

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INON UCL-G165 II M55 Underwater Wide Close-up Lens

Thank you for purchasing INON product.

The INON UCL-G165 II M55 Underwater(*1) Wide Close-up Lens is dedicated wet lens primarily designed for action cameras enabling super close-up/high magnification imaging which would not be possible with action camera standalone.

Product features

- This lens shortens minimum focus distance underwater supporting high magnification/close-up image.(*2)
- Maximum angle of view of action camera will narrow down underwater due to different refraction index. This lens is a unique close-up lens providing slightly wide angle of view 「maximum view angle underwater 110°: when use with GoPro HERO series」 (*3) to have deeper depth of field (DoF) benefitting you with less out-of-focus close range imaging which is not possible with standard close-up lens.
- Lens mount is **M55 Screw Mount** to offer broad versatility.
- Optics is constructed of 2 elements in 2 groups. All elements are made from high refractive index glass lens to minimize whole size dramatically without sacrificing performance.
- Both lens elements have anti-reflection coating on all surfaces to elicit combined master lens performance.

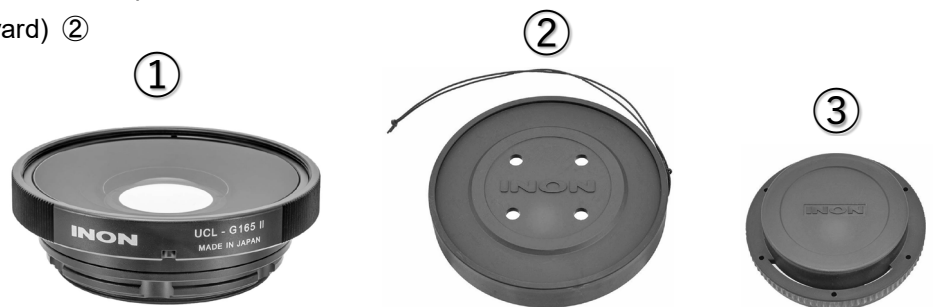
(*1) This lens is designed to use for underwater use only and not for use on land.

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

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

Package contents

- UCL-G165 II M55 Underwater Wide Close-up Lens ①
- Front Lens Cap (rubber/with lanyard) ②
- Rear Lens Cap (PC) ③



How to attach the lens

- **Apply a little amount of grease (supplied with an underwater housing) on the threaded ring** to prevent anchoring between the lens and housing due to 「salt build-up」 or 「electric corrosion」 .
- Screw the lens onto housing port. It is necessary to fill the space between the lens and housing port surface with water, so attach UCL-G165 M55 underwater or partially unscrew the lens allowing inside air to escape then retighten.

How to use

Focus setting of camera

This lens can be used in all focus range of compatible camera. Actual shooting distance (distance between a subject and subject side lens) through UCL-G165 M55 will shorten comparing to focus point without lens.

Handling precaution

- **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 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.

Maintenance

- After using, **always remove this product from underwater housing** and 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).
- **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.

Specifications

INON UCL-G165 II M55 Underwater Wide Close-up Lens Specifications (*1)

Model	UCL-G165 II M55
Size	φ77mm/3.0in × 25.5mm/1.0in
Weight	air: 222g/7.8oz, underwater:139g/4.9oz
Lens mount	INON M55 Mount
Depth rating	60m/197ft
Body material/finishing	Corrosion-resistant aluminum alloy/rigid black almite
Lens material/finishing	Optical glass/both side coating
Optical construction	2 groups 2 elements
Focal length	165mm(underwater use only)

Depth of field (DoF) with UCL-G165 II M55 (*2)

Mfr.	Housing	Camera	DoF	Remarks
Sony	MPK-HSR1	DSC-RX0	9.6cm/3.8in-∞	-
GoPro	Genuine housing	HERO12 Black / HERO11 Black / HERO10 Black / HERO9 Black	5cm/2in~35cm/13.8in (*4)	(*3)
		HERO8 Black		
		HERO7 Black / HERO6 Black / HERO5 Black		
		HERO4 / HERO3+ Black		
		HERO / HERO+ / HERO+LCD		
		HERO3 Black	7cm/2.8in~∞	

(*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) Reference data when installing the lens via other brand's M55 filter adapter.

(*4) Although the lens specifications are the same as the previous model "UCL-G165," the depth of field

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