

INON UCL-67 M67

Underwater 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-67 M67 Underwater Close-up Lens

Thank you for purchasing INON product.

INON UCL-67 M67 Underwater Close-up Lens is a wet lens designed for underwater use to easily acquire ultra-high magnification image by simply screwing on compatible housing lens port or via INON M67 Lens Adapter Base products.

Main Features

- The UCL-67 M67, underwater close-up lens is designed to deliver high magnification yet superior image quality best suited to full frame SLR macro lenses of focal length 60mm - 100mm with comfortable long working distance enabling easy lighting but less optical aberrations. The lens also supports micro four thirds as well as compacts digital cameras. (*1)
- Maximum magnification of the UCL-67 with range of 100mm macro lens for full frame SLR is 2.76x (area ratio: 7.65x) at the minimum focusing distance. (*2)
- The optics is constructed of 4 elements in 3 groups. All elements are made from high refractive index glass lens to minimize physical size.
- Yet providing powerful 67mm underwater focal length (equivalent to +15 diopter), the UCL-67 design and construction minimize its optical aberrations to deliver high quality image. The construction includes achromat lens to suppress chromatic aberration and anti-reflection coating on all surfaces to elicit combined master lens performance.
- **INON M67 Mount** compatible to provide wide versatility.
- Optional 「Lens Adapter Ring for UCL-67/90」 is attached on the M65 screw thread of the UCL-67 allowing to stack INON M67 series, 「UCL-165M67」/「UCL-330」 on the front side of the UCL-67 to support even higher magnification for super macro imaging needs.
- Optional 「M67 Flip Mount Adapter for UCL-67/90」 is available to replace with original M67 screw mount to use the lens on a flip mount such as Nauticam flip lens holder etc. (*Not compatible with a flip lens holder with 57mm or smaller inner diameter such as from SAGA)

- Compatible lens** :
- 60mm-100mm range macro lens for full-frame SLR(*3)
 - 40mm-60mm range macro lens for APS-C(*3)
 - 45mm-60mm range macro lens (*3), standard zoom lens (*1) for micro four thirds camera
 - Compact digital camera with maximum optical zoom 5x or less.(*1)

(*1)Only usable when the focal length is between 60mm and 100mm range at 35mm film equivalent. Beyond this range, there will be vignetting at the wide side and deteriorated image quality at the telephoto side.

(*2)When using for AF-S VR Micro-Nikkor 105mm f/2.8G IF-ED

(*3)Vignetting may be observed depends on the distance between master lens and lens port glass and/or UCL-67 and lens port glass.

- Package contents** :
- UCL-67 M67 Close-up Lens ①
 - M65 Screw Protective Ring (Pre-installed) ②
 - Front Side Lens Cap (Marked "67.8" on the inner surface) ③
 - Camera Side Lens Cap (Marked "685C" on the inner surface) ④
 - Anti Ghost Sticker x 1
 - This user manual



- Installation method** :
- Apply a little amount of grease (supplied with a housing) on the threaded part of the screw mount to prevent anchoring by salt-build-up or electrical erosion between the lens and housing or M67 Lens Adapter Base.
 - Screw on compatible housing lens port or M67 Lens Adapter Base. It is recommended to attach underwater or partially unscrew and retighten underwater to escape trapped bubbles between the lens and housing lens port surface.

- Precautions** :
- This product is designed for underwater use only. Using on land will have less magnification, distortion, vignetting etc..
 - Pre-installed gray "M65 Screw Protective Ring" is recommended not to remove all the time unless stacking another lens. This ring is to protect threaded part for installing optional 「Lens adapter Ring for UCL-67/90」.
 - Periodically remove 「M65 Screw Protective Ring」 and apply a little amount of grease to prevent anchoring by salt-build-up or electrical erosion. Please refer to 「Maintenance」section on next page for detail.
 - Generally, a close up lens shortens camera's minimum focusing distance (shorten combined (master lens + add-on lens)minimum focusing distance). While the UCL-67 M67 allows you to shoot a subject closer achieving a larger image, distant subject may not get in focus depending on angle of view or aperture setting. Also using the UCL-67 M67 with a camera having relatively close focusing distance, may not be able to shorten minimum focusing distance and benefit would be 「shorten focusing distance in particular zoom position where camera cannot work in the minimum focusing distance」 or 「shorten minimum focusing distance without using macro mode」.
 - **After using, never put the lens caps on or put the lens in the 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.

Especially if air temperature is relatively high where remaining water on the lens surface will be vaporized very quickly, the lens has high chance to get spot/burn with remaining water on the lens surface even for a short period of time.

- Depending on housing or shooting conditions (like shooting distance/angle of view), the lens may block the camera's built-in flash. If an external strobe is not used in such case, it would be recommend shooting with ambient light only not using the built-in flash.
- When shooting with an external strobe, using compatible external strobe (INON D-2000 etc.) connecting via INON 「Clear Photo System」 would be recommended.

Shooting without Clear Photo System may cause limitation on shooting situations or problem on an image. Refer to the boxed column on the last page of this manual for detail.

- Supplied 「Anti Ghost Sticker」 can suppress flare/ghost causing by reflection around peripheral part of the lens front. Please refer respective manual for detail of this sticker.
- Stackable INON M67 series close-up lens via optional 「Lens Adapter Ring for UCL-67/90」 is 「UCL-330 or 「UCL-165M67」. Depending on combined camera/housing, stacking close-up lens may have significant degradation on image quality.
- Generally, it is recognized that the more lenses are stacked, the less image quality is.
- **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, especially on such surfaces as a boat deck, car dashboard etc. 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, especially on such surfaces as a boat deck, car dashboard etc. to prevent damage and subsequent flooding.
- It is recommended to carry the lens in optional carry pouch to prevent accidental shock just before attaching on camera housing.

Maintenance

- After using, **always remove UCL-67 M67 from 「housing/M67 Lens Adapter Base」**. Soak the UCL-67 M67 in fresh water (below 30°C/86°F) for several hours to dissolve any remaining salt, then **blow off water on the both lens surface** by compressed air etc. Leave the lens at **shaded** and well-ventilated area to dry **with no water drops on the both lens surface** (it may take several days to completely dry).
- Remove 「M67 Screw Protective Ring」 and apply a little amount of grease periodically to prevent anchoring by salt-build-up or electrical erosion.



- **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.
- Do not allow any water to dry on lens surfaces, as water spots or discoloration may result.

Optional Accessories:

- **Lens Adapter Ring for UCL-67/90**
This adapter is screwed on M65 thread of the lens barrel to hold INON 「UCL-165M67」 or 「UCL-330」 in front of the UCL-67 for even higher magnification. Any other high power INON close-up lens, such as 「UCL-90 M67」, 「UCL-100M67」 or 「UCL-67 M67」 **cannot** be combined as those combinations significantly degrade image quality.



- **M67 Flip Mount Adapter for UCL-67/90**
Optional adapter to replace with original M67 screw mount to attach the UCL-67 on flip mount from Nauticam etc. This adapter allows to locate the UCL-67 close to housing lens port. Not compatible with any flip system having 57mm or less diameter such as from SAGA etc.



- **Neoprene Carry Pouch S**
Neoprene carry pouch to use land/underwater. Protect lens from shock and abrasion while in transport and storage, as well as while carrying underwater.



- **M67 Lens Holder W**
- **M67 Lens Holder S**
- **M67 Lens Holder for Float Arm**
Attaches to INON Arm/Float Arm to hold UCL-67 M67 to help easy handling of multiple lenses underwater.



INON Underwater Close-up Lens UCL-67 M67 Specification [①]	
Type	UCL-67 M67
Size	φ70mm (2.76in.) x 37mm (1.46in.)
Weight	Air: 340g (12oz) / Underwater: 227g (8oz)
Thread diameter/ pitch	M67 / 0.75
Depth rating	60m (197ft)
Body material / finishing	Corrosion-resistant aluminum alloy / rigid black alumite
Lens material / finishing	Optical glass / both side coating
Construction / magnification [②]	3 groups 4 elements / 2.76x (area ratio: 7.65x)
Focal length (underwater)	67mm (2.6in.)-equivalent to +15 diopter

[①] Specification is subject to change without prior notice

[②] With AF-S VR Micro-Nikkor 105mm f/2.8G IF-ED at the minimum focusing distance.

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 2023

※ When using built-in flash with attachment lens without Clear Photo System . . .

When using built-in flash with attachment lens being mounted and Clear Photo System is not used, *there may be possibility to have ghost/flare in an image* depending on shooting condition/camera housing/Mount Base being used.

This is because built-in flash light gets into the attachment lens from its mounting part. In the case, *it is recommended to use External Strobe with Clear Photo System*. If you have to use built-in flash only by necessity, ghost/flare could be reduced by preventing built-in flash light from being get into attachment lens from its mounting part. INON Inc. assume no responsibility whatsoever for any direct/indirect damage resulting from user's modification on camera system.