

INON

UWL-95 C24 M67

Type1/Type2

Wide 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 UWL-95 C24 M67 Type1/Type2 Wide Conversion Lens

Thank you for purchasing INON product.

The INON UWL-95 C24 M67 Type1/Type2 Wide Conversion Lens is an attachment lens to acquire ultra wide shot by simply screwing on lens port of compatible underwater housing for 24mm (35mm film equivalent) wide digital camera. The lens can be easily attached or detached underwater. **Compatible camera/housing is different between Type1 and Type2. Refer to the compatible housing section for detail.**

Features

- **Dual use wide conversion lens for land/underwater** supporting maximum 95° wide angle image and maximum underwater or 159° fish-eye imaging on land.
- Dedicated super wide option *Dome Lens Unit III* further increases its maximum view angle underwater up to 141°.
- Totally renewed optical design supports large 1.0-type image sensor camera with bright master lens, successfully suppresses flare/ghost even in backlit condition and shorten minimum focusing distance 0cm to get subject in focus on the lens creating vivid **Wide Macro shot**.
- Highly versatile M67 Mount with two different types of threaded thickness (Type1/Type2) to bring optimal performance of the different camera/housing combinations.
- Removing the preinstalled M67 Mount will convert the lens to use as *UWL-95 C24 M52 Wide Conversion Lens*.

Package contents:

- UWL-95 C24 M67 Type1 (or Type2) Wide Conversion Lens
- Lens Cap (object side×1/camera side×1)
- This user manual

Compatible housing:

• UWL-95 C24 M67 Type1	Sony MPK-URX100A
• UWL-95 C24 M67 Type2	A housing with a lens port of 6 mm/0.2 in or less distance between lens port edge and lens port surface

(As of April 2020)

Installation :

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

Usage :

- **Zoom setting**
Use zoom wide end. Crop an image after shooting if vignetting is observed. This lens is designed to deliver optimal quality/performance with this setting.
- **Focus setting**
The lens is usable for all focus range of the compatible camera. When using this lens, actual shooting distance (distance between subject and subject side lens) gets close comparing to camera's stand-alone focusing point, so it is possible to shoot close-up image at closer than rated minimum focusing distance of the camera.
- **Built-in flash setting**
When not using an external strobe, it is recommended not using the built-in flash and shoot with ambient light only since the built-in flash light may be blocked depending on shooting conditions including housing type, shooting distance or angle of view.

Handling Precautions:

- Never scratch/damage the side frame of the front lens element (indicated/highlighted in the right image) where O-ring contacts when optional Dome Lens Unit III is attached. **If this part gets scratched/damaged, Dome Lens Unit III cannot be attached.** It is recommended to use optional *Lens Hood II* to protect accidental damage on this part and the lens surface.
- **Do not leave any water drop (seawater/fresh water) on lens surface after using before attaching a lens cap or store in wet carry pouch.** Remaining water could cause spot/burn of coating or glass itself. Slight spot/burn would not affect an image, but heavy spot/burn may affect an image and the damaged lens needs to be replaced on customer's expense.
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.



- **DO NOT disassemble the lens.** Improper disassembly could cause malfunction or flooding. **Please make sure NOT to hold front lens frame (which holds subject side lens) but to hold lens barrel where INON logo/product name is printed and rotate it when detaching the lens from combined housing.** Excessive pressure on the front lens frame of this product could loosen the frame and possibly lead to subsequent flooding.
- **DO NOT** exercise thumping vibration or excessive shock on the lens to avoid malfunction or flooding.
- **DO NOT** leave the lens under direct sunlight. The lens may collect the sunlight and cause fire. **Never** attempt to see the sun through the lens to avoid serious damage to eyes.
- **DO NOT** leave the lens under direct sunlight like beach or boat deck and in area of high temperature like in sun-heated car to avoid malfunction or flooding.

Maintenance

- After using, **always remove the lens from housing** and soak 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**. Leave the lens at **shaded** and well-ventilated area to dry **with no water droplets/moisture on both lens surfaces** (it may take few days to completely dry).
- **Attach lens cap after completely dry** and store the lens in shaded and well ventilated area. **DO NOT** store the lens in the area near chemical, in high humidity or temperature fluctuation to avoid malfunction, flooding, damage to lens surface or mold.

Type Conversion

- It is possible to change Type of UWL-95 C24 M67 by replacing its screw ring. If you need to change to another type, optional *M67 Type1 Screw Ring for UWL-95 C24* or *M67 Type2 Screw Ring for UWL-95 C24* is available to purchase to support self-modification. Depending on usage, original screw ring could be anchored due to salt build-up. If you find any difficulties to remove original screw ring, do not proceed self-modification and consult your purchasing dealer.
- By removing preinstalled M67 screw mount, you can use this product as UWL-95 C24 **M52**. Please note that the M52 screw mount seals the lens barrel. So **DO NOT** remove the M52 screw mount to avoid flooding.

Options:

- **Lens Hood II**
The *Lens Hood II* is designed to shade unnecessary light from outside of view angle and reduce flare/ghost which could happen in backlit condition. The hood also protects lens surface and its frame. We recommend to attach the lens hood always when shooting.



- **Dome Lens Unit IIIA**
- **Dome Lens Unit IIIG**
The *Dome Lens Unit III* is exclusively designed for UWL-95 C24 wide lens to increase view angle underwater up to approx. 141°. Either acrylic or glass dome is available to choose.



- **M67 Type1 Screw Ring for UWL-95 C24**
- **M67 Type2 Screw Ring for UWL-95 C24**
The Set consists of threaded ring either of Type1 or Type2 and fixing screws for Type conversion or replacement of worn/damaged original screw ring.



- **UWL-100 Neoprene Carry Pouch**
Carrying pouch made from neoprene same material as wet suits. The carry pouch can be used underwater.



- **M67 Lens Holder W**
- **M67 Lens Holder S**
- **M67 Lens Holder for Float Arm**
Attaches to INON Arm etc. to hold M67 Mount series lenses to help easy handling of multiple lenses underwater.



INON Wide Conversion Lens UWL series	
Specifications ^[①]	
Model	UWL-95 C24 M67 Type1/Type2
Outer diameter	φ 90.0 mm/3.5 in
Length	48.2 mm/1.9 in
Mount	INON M67 Mount
Weight	[underwater]: approx.396 g/14 oz, [air]: 618 g/21.8 oz
Depth rating	60 m/196.9 ft
Body material/finishing	Corrosion-resistant aluminum alloy/rigid black almite
Lens material/finishing	Optical glass/both side anti-reflection coating
Construction/magnification ^[②]	3 groups 4 elements/0.63(afocal system)
Max. view angle ^[③]	[underwater] 95.1°/[air]159.0°

[①] Specification is subject to change without prior notice. —
 [②] UWL-95 C24 M67 Type1/Type2 performance itself (telescopic magnification : v).
 [③] Actual view angle may vary depending on camera/housing to be used.

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April 2020