

# INON

## INON Dome Spacer for UWL-100 28AD

Thank you for your purchasing INON product.

INON Dome Spacer for UWL-100 28AD is necessary to attach Dome Lens Unit for UWL-100 to UWL-100 28AD Wide Conversion Lens.

- Package contents:**
- Dome Spacer for UWL-100 28AD ①
  - Allen Wrench ②
  - This user manual

- Compatible product:**
- INON UWL-100 28AD
  - + INON Dome Lens Unit for UWL-100



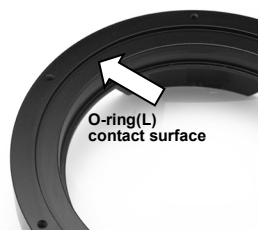
This manual explains how to attach 『UWL-100 28AD』 to 『Dome Lens Unit for UWL-100』, usage of combined lens unit and maintenance. Please see manual of 『UWL-100 28AD』 or 『Dome Lens Unit for UWL-100』 for “performance”/“specification”/“accessory” of combined lens unit or description of 『UWL-100 28AD』 / 『Dome Lens Unit for UWL-100』 .

- Check UWL-100 28AD** :
- Check and confirm O-ring contact surface of UWL-100 28AD (indicated in the right image) has no scratch/damage/debris on the metallic lens barrel. If the O-ring contact surface has scratch/damage, sealing between UWL-100 28AD and Dome Lens Unit can not be obtained and the damaged lens barrel needs to be replaced at user's cost. Please contact your purchasing dealer or INON Inc.
  - Check subject side lens condition. Significant spot/burn may affect an image though Dome Lens Unit can be physically attached on the damaged UWL-100 28AD. The damaged lens may need to be replaced at user's cost. Please contact your purchasing dealer or INON Inc.

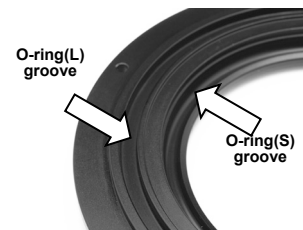


- Preparation** :
- Remove all 『Plastic Screw/Washer』 (4 sets) seated on outside of metallic lens barrel (encircled in right image) by Allen wrench. The 『Plastic Screw/Washer Set』 protects screw holes used for attaching Lens Hood for UWL-100 28AD. Keep removed 『Plastic Screw/Washer』 to assemble them back to screw holes when UWL-100 28AD is used alone (without Dome Lens Unit or Lens Hood).
  - Check and make sure that the Dome Spacer for UWL-100 28AD, the Dome Lens Unit for UWL-100, the Dome Lens Unit Base and the UWL-100 28AD is completely dry to prevent the formation of any condensation during use.
  - Clean lens surface of Dome Lens Unit and UWL-100 28AD if necessary.
  - Check condition of O-ring contact surface and O-ring groove of the Dome Lens Unit and the Dome Lens Unit Base (as shown in images) and confirm there is no scratch / damage / debris.

One more screw on backside



Dome Lens Unit



Dome Lens Unit Base

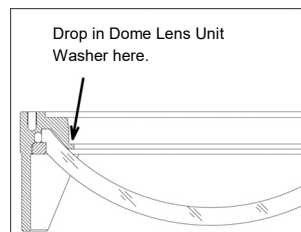
Check O-ring(large) and O-ring(small) of the Dome Lens Unit and make sure that they do not have any scratch/damage/debris.

## How to assemble

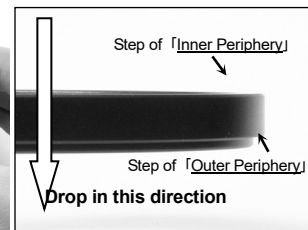
### Lens Unit:

- Make sure to assemble in cool, and dry room.

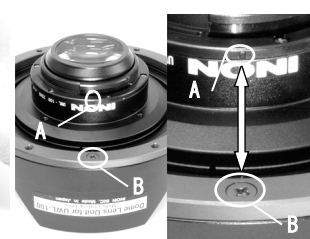
First, place the Dome Lens Unit with back (open) side facing up and drop in the Dome Lens Unit Washer according to the arrow in diagram right. Make sure it is seated completely and uniformly.



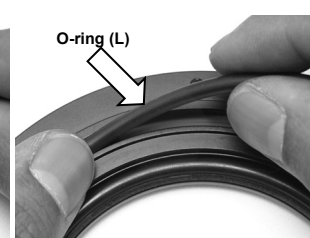
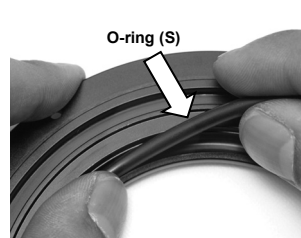
Drop the Dome Spacer for UWL-100 28AD on the Dome Lens Unit Washer so that a 『Step of Outer Periphery』 facing down. Make sure it is seated completely and uniformly



Place the UWL-100 28AD softly on the Dome Spacer so that the lens is seated on the 『Step of Inner Periphery』 of the spacer. And rotate the UWL-100 28AD slowly to align 『Guide A』 of UWL-100 28AD (shown as [A] in right image) and 『Plus Screw Head at center of Dome Lens Protector』 (shown as [B] in right image) at closest distance.



Using your fingertips, completely spread a bead of INON Grease around the large and small O-rings in a thin uniform film and install the O-rings into the O-ring grooves. Make sure the O-rings are seated uniformly and completely with no twists or irregularities.



When the two O-rings are installed, flip over the Dome Lens Unit Base, line up the screw holes and lower it onto the Dome Lens Unit, with the O-rings facing down, watching carefully that the O-rings remain completely seated as they contact the Dome Lens Unit O-ring contact surfaces. Next, insert the six cap screws through the Dome Lens Unit Base and into the Dome Lens Unit screw holes and tighten the six cap screws little by little, alternating between screws opposite each other, in a star pattern. Tightening too much could cause damage to the Dome Lens Unit.



**Assembly should be conducted in cool and dry room after checking both of Dome Lens Unit and UWL-100 28AD is completely dry to avoid fogging inner surface of Dome Lens Unit during use.**

**Pre-use check** : • After assembly and before using, always confirm that the combined Dome Lens Unit/UWL-100 28AD has been assembled properly and is watertight by conducting a “Leak Test.” Immerse the Dome Lens Unit / UWL-100 28AD assembly in a bathtub or tank of water (30 deg C / 86 deg F or less). No water should come between the UWL-100 28AD and Dome Lens Unit. If water leaks between the two, disassemble, dry and reassemble starting from the first.

**How to use** : • **How to attach to a housing**  
Attach combined Dome Lens Unit/UWL-100 28AD on compatible 28AD Mount Base/28AD Port following to same procedure to attach UWL-100 28AD alone. Please refer to UWL-100 28AD user manual for detail. Attach underwater or re-install underwater to escape air between housing/28AD Port and combined Dome Lens Unit/UWL-100 28AD.

• **Setting camera zoom position**  
Set camera zoom at widest position. Depending on the camera and housing used, there may be vignetting in the image corners. In this case, crop the image when editing. The Dome Lens Unit is designed to obtain best image quality and results when the zoom is set at widest position.

• **Setting camera focus mode**  
When using following cameras, set camera's Macro Mode to ON.

Olympus : C-7070WZ , C-5060WZ

Canon : S70 , S60

For various camera's focus settings and actual focus ranges (distance from the subject to dome surface) see the specification charts at the end of Dome Lens Unit for UWL-100 User Manual.

**Maintenance** : • Make sure to remove combined Dome Lens Unit/UWL-100 28AD from housing after use and soak the lens unit in fresh water(below 30 deg C / 86 deg F) for several hours to solve any salt build up. Blow off water drop by air gun/blower and dry the lens unit in shaded and well ventilated area without any water drop being on lens surface. It may take several days to completely dry.

• After completely dry, detach Dome Lens Unit and Dome Spacer from UWL-100 28AD following opposite procedure of assembly. Then clean O-rings, O-ring grooves and O-ring contact surfaces and grease screw holes of UWL-100 28AD/Dome Lens Unit.

• Put plastic screws/washer set back to UWL-100 28AD if you use UWL-100 28AD alone for next time or re-assemble Dome Lens Unit/UWL-100 28AD/Dome Spacer and keep the lens unit 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.



**Handling Precautions:** • The combined lens unit (Dome Lens Unit / UWL-100 28AD) could have degradation at peripheral part of an image comparing to image quality of UWL-100 28AD without Dome Lens Unit even though you set camera zoom position as instructed above. Better image quality can be obtained by stopping down as much as possible.

• Do not leave any water drop(seawater/fresh water) on lens surface after using or store in wet carry pouch. Remaining water could cause spot/burn of coating or glass itself. Slight spot/burn would not affected to an image, but heavy one affects an image and the damaged lens needs to be replaced at user's cost.

• DO NOT disassemble the lens. Improper disassembly could cause malfunction or flooding. When detaching the combined lens unit from housing, make sure NOT to grasp Dome Lens Unit but to grasp lens barrel of UWL-100 28AD where product name is printed to unscrew the combined lens unit. Excessive pressure on Dome Lens Unit could lead to possibility of damage to lens frame of UWL-100 28AD or sealing part between UWL-100 28AD and Dome Lens Unit, and could result in flooding.

• DO NOT exercise thumping vibration or excessive shock on the lens to avoid malfunction or flooding.

• DO NOT leave the lens(regardless of combined or separate) 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.

• Built-in flash light is interrupted. Compatible External Strobe (like INON D-2000) would be recommended.

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