

AOI UWL-09Pro Wide Angle Lens

Cat. No. 5158

Instruction Manual



DISCLAIMER

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INTRODUCTION

The **AOI UWL-09Pro Wide Angle Lens** is a quality “wet” wide angle conversion lens that fits onto the housing 67mm lens port thread and can be installed and removed during the course of the dive. It is perfect for photographing seascapes, divers, ship wrecks and schools of fish without moving further away from the subject, thereby still taking full advantage of water clarity and artificial light sources.

The **AOI UWL-09Pro Wide Angle Lens** can be mounted directly on top of 67mm threaded housing lens ports or on top of lens ports featuring a different thread, by using a compatible adaptor.

SPECIFICATIONS

- 67mm thread mount
- Bezel / Barrel Material: Aluminum alloy with black hard anodize, ABS
- Lens Material: 6 groups and 6 elements
- Lens coating: Inner surface multi layer AR coating on the optical grade glass dome lens + Multi layer AR coating on all glass lens elements
- Depth rated to 100 meters / 330 feet
- Magnification: 0.45X
- Angle of View: 127 degrees*
*Diagonal angle of view (or field of view) on land, using a focal length equivalent to 24 mm with a 35 mm format image sensor. To understand how this lens performs using a specific camera, please check our compatibility tables or contact us.
- Minimum focus distance: 0mm from glass dome lens
- Weight (on land): 1408 g / 49.7 oz
- Weight (underwater): 770 g / 27.2 oz
- Dimensions (diameter x height): 139 x 99 mm / 5.47 x 3.89 inch
- Included in package: Neoprene dome cover, rear lens cap, UWL-09Pro type-B adaptor kit, secure string, microfiber cloth and lens padded carrying case

INCLUDED IN PACKAGE



- 1. UWL-09Pro Wide Angle Lens
- 2. Rear cap
- 3. Dome cover
- 4. Microfiber cloth

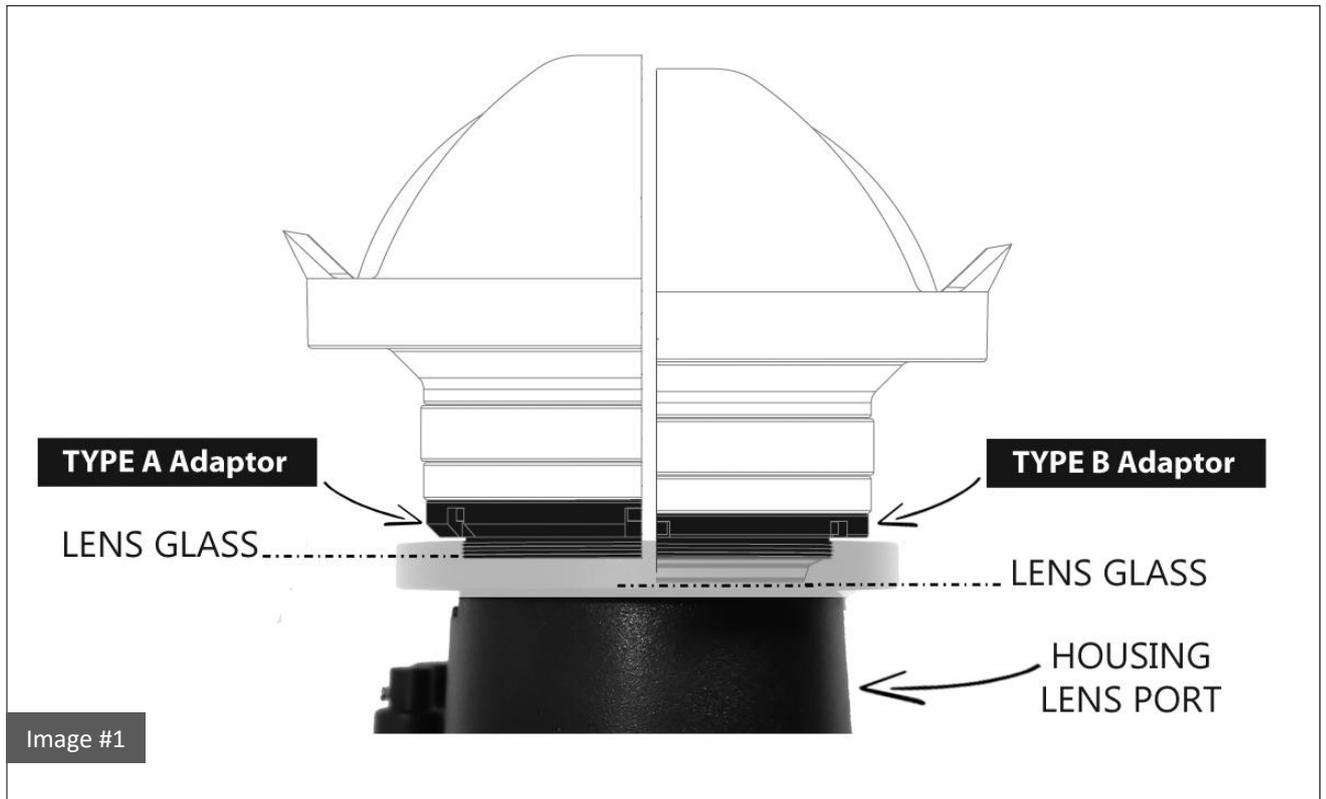
- 5. UWL-09Pro type-B adaptor kit
- 6. Secure string kit
- 7. Padded carrying case

COMPATIBILITY

The **AOI UWL-09Pro Wide Angle Lens** can be mounted on 67mm threaded lens ports or other lens ports by using an adaptor. For a selection of adaptors available, please visit our website - www.fantasea.com

INSTRUCTIONS FOR USE

1. Please use the utmost care and do not use excessive force when assembling and disassembling the lens, in order not to cause any damage to the product.
2. The UWL-09Pro lens comes with the *type-A adaptor for UWL-09Pro* preassembled. This adaptor allows mounting the lens on almost all housing lens ports featuring a 67mm thread. Note that an additional narrower adaptor is separately included in the package and marked as *type-B adaptor for UWL-09Pro*. When installed on the UWL-09Pro Lens instead of the *type-A adaptor*, the *type-B adaptor* allows the lens glass to be positioned closer to the housing lens port and the camera lens (image #1), resulting with even better optic performance and enhanced results. This configuration, however, is only compatible with some of the housings.



If it seems that your housing lens port might be compatible with the *type-B adaptor* setup, you might consider replacing the preassembled *type-A adaptor* with *type-B adaptor*:

- a. Place the lens on a working surface so that the dome is facing downwards and the thread is facing upwards. To protect the lens, cover the working surface with soft cloth and leave the front neoprene cover assembled on the lens.
- b. Remove the rear cap of the lens by unscrewing it until it separates from the lens.
- c. Use the Allen Key (2.5mm) included with the *Type B Adaptor Kit* in order to unscrew all of the screws installed on the rear side of the lens (image #2).
- d. Remove the *type-A adaptor* from the lens and install the *type-B adaptor* instead, so the screw holes on the adaptor are aligned with the screw holes on the lens.
- e. Using the 2.5mm Allen Key, reinstall the screws to secure the *type-B adaptor* in place.
- f. Test the configuration by screwing the lens on to your housing lens port (image #3 and 4). If the lens properly screws all the way in and sits within a fixed and stable position, the configuration is most likely compatible with your housing. Otherwise, replace the *type-B adaptor* with the *type-A adaptor* again.



Image #2

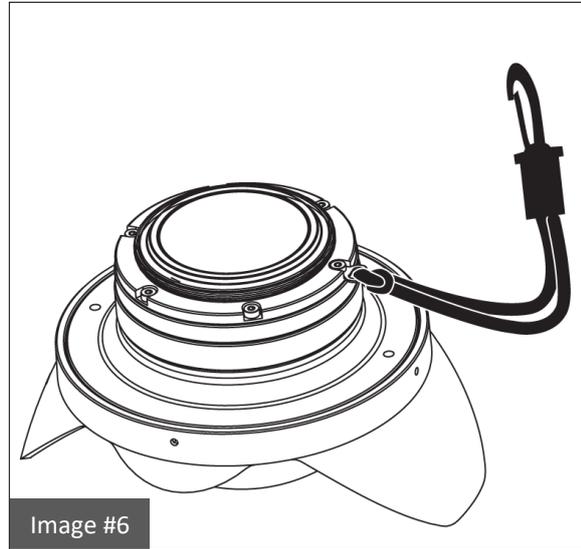
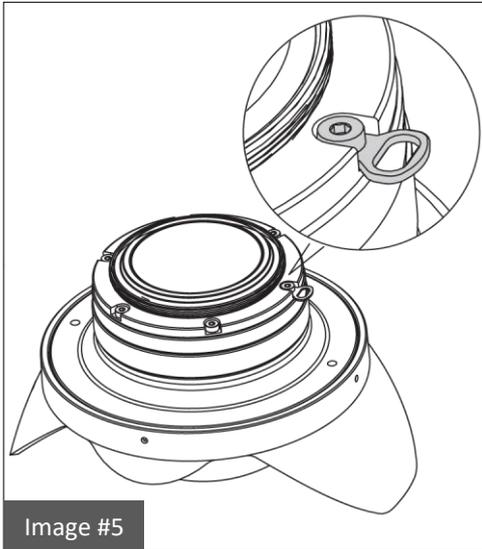


Image #3



Image #4

3. Install the secure string on the lens:
 - a. Insert the secure string through the secure loop featured on the lens (image #5). Pull it through itself and test it in order to make sure it is secure (image #6).
 - b. It is recommended to attach the secure string of the lens to the housing, in order to secure the lens. If making use of an arm in the system, secure strings can be secured to the arm rather than to the housing.



4. Install the lens by screwing it on to your housing lens port (images #3 and 4 on page 5).
5. It is recommended to apply a small amount of silicone grease on the threaded area in order to prevent corrosion. Make sure that no grease is applied over the lens glass.

IMPORTANT NOTICE

The **AOI UWL-09Pro Lens** should only be screwed till the point of minimal resistance. Continuing to screw the lens further than this point will make it difficult to remove it later on.

6. Once the lens is installed on the housing lens port, test the mount to make sure it's stable and that the lens sits within a fixed and secure position.
7. During the dive, install the lens by screwing it on your housing lens port. Avoid tightening the lens too hard onto the housing port, filter or adaptor, as this might result in difficulty with removal.
8. Once the lens has been installed on the housing lens port, align the wings by carefully swiveling them so that the longer wings are positioned vertically - on the bottom and top. This will prevent the wings from being visible in images captured. Note that swiveling the wings for the first time might require applying additional pressure.
9. **Note that water must enter the gap between the lens port and UWL-09Pro lens glass when using the lens underwater.** Therefore, when diving with the lens, it is best to install it underwater. Before capturing images, make sure that the gap between the wide angle lens and the housing lens port fills with water and that there are no air bubbles trapped there.

10. The UWL-09Pro Lens can be removed and installed repeatedly throughout the course of the dive.
11. Note that prior to unscrewing the lens from the housing lens port, the secure string clip attached to the housing or arm should be released.
12. When removing the UWL-09Pro Lens from the housing, it can be conveniently stored by attaching it to the **EyeGrabber F67**, which mounts on any standard Flex or B&J Arm, or a different EyeGrabber Lens Holder if using an adaptor with the lens. For a selection of EyeGrabber Lens Holders available, please visit our website - www.fantasea.com
13. During the beginning of your dive, the lens might become foggy as a result of an increase in the air temperature inside the lens, following submersion in cooler water. Storing the lens in a cool dry place when not being used, such as a padded housing bag with a few silica gel packs inside, and submerging it in cool water for 10 minutes prior to the dive, should assist in preventing such condensation. However, even if the lens starts fogging up at the beginning of the dive due to temperature differences, note that continuing to dive with it for about 10 minutes should eventually dissolve the fog.
14. It is recommended to use an external strobe when the UWL-09Pro Lens is mounted on the housing. The UWL-09Pro Lens blocks the camera internal flash, resulting in underexposed or shaded images.
15. When using an external flash or shooting against the sun, there are a few techniques that should be followed in order to avoid a lens flare, which is often encountered when using dome ports of any kind due to the reflection of the sun or strobe:
 - a. Images in which the sun is captured can be usually taken during mornings or afternoons, when the sun is not as strong as during the middle of the day. In general, the sun will have a much softer and successful effect during early and late hours of the day and will also cause less of a flare.
 - b. Make sure that the strobe is not positioned towards the lens. When shooting a nearby subject, for instance, it is better to position the strobe a little bit in front of the camera housing rather than behind it (so the light doesn't reflect on the Wide Angle Lens), or if you choose to position the strobe behind the camera housing, make sure it's not pointed directly towards the lens, but a little bit tilted towards the side.
16. After the dive, detach the wide angle lens and all components from the housing lens port and rinse them in fresh water.
17. Dry and store in a safe protected place.

CARE & MAINTENANCE

1. Please use the utmost care and do not use excessive force when assembling and disassembling the different accessories, in order not cause any damage to the product.
2. Keep the lens away from extreme high temperatures, as under direct sunlight, since it might damage lens.
3. Do not clean the lens with any chemical solvents or other materials, which might cause damage to the lens.
4. Never look at the sun through the lens.
5. When mounting the lens on a housing lens port, it is recommended to follow the guidelines below in order to avoid wearing out the threads of the lens and housing over time:



- a. Prior to installing the lens on the housing, it is recommended to apply a small amount of silicone grease on the threaded area of the lens (and adaptor, if used) to reduce the amount of friction.
- b. Install the lens on the housing lens port underwater only and remove it prior to ending the dive. Once removed, the lens can be mounted on a lens holder. Avoid having the lens assembled on the housing on land as much as possible, as it is heavier and exerts more pressure on the threads.
- c. It is recommended to reduce wearing of the threads by using lens mounting accessories such as bayonet mounts or flip adaptors.

6. After Dive Care:

- a. Detach the lens from the housing lens port and rinse all lens components in fresh water.
- b. To ensure that the accumulated salt has completely dissolved, it is recommended to soak the lens in warm fresh water once in a while.
- c. Wipe the water drops with a soft cloth. Do not leave any droplets to dry on lens surface, as permanent water spots may remain.
- d. When storing the lens and during transportation, make sure that it is properly protected in order to prevent scratches, cracks or any other damage to the lens.
- e. Store the lens in a dry and protected area. Storing the lens in a low humidity environment will decrease the chances of the lens fogging up when submerged in water.
- f. Do not store the lens in presence of chemicals, solvents or fuels.

FANTASEA PRODUCT CONSUMER LIMITED WARRANTY

“Fantasea” warrants this Fantasea Line branded product against defects in materials and workmanship under reasonable use for a period of ONE (1) YEAR, (two years, where required by law as determined by the origin of the authorized dealer). This warranty is effective from the date of retail purchase from Fantasea or an authorized Fantasea dealer, by the original end-user purchaser (“Warranty Period”). This warranty does not cover any commercial use of the product. If a product defect arises and a valid claim is received within the Warranty Period, at its option, Fantasea, or its authorized service facilities will either (1) repair the product defect at no charge, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product. The warranty will not extend beyond the original warranty period.

Your Fantasea Product should be registered within 30 days of purchase. You must keep the proof of purchase which indicates the date on which the purchase was made; as you may be required to show proof of purchase if you need warranty service. The following conditions apply: 1. This warranty extends to the original purchaser only. It is not assignable or transferable. 2. The warranty does not cover damage resulting from misuse, abuse, negligence, or accidents. Proper maintenance of the Product is the responsibility of the owner. 3. The warranty does not cover damage directly or indirectly resulting from the use of unauthorized replacement parts or service performed by unauthorized facilities. 4. This warranty does not cover any damage to any other product used in conjunction with the Fantasea product, including cameras and lenses, and resulting from any defect in the product materials or workmanship. 5. The cost of sending the product back to Fantasea or its authorized service facilities is the responsibility of the customer. 6. The warranty does not cover any incidental damages resulting from any defects in the product. This expressly includes any travel reimbursements or any other costs associated with the purchaser’s optional use of the product. The conditions of this warranty are expressly in lieu of all other expressed warranties, including the payment of consequential or incidental damages for the breach of any warranty. Please register your product on line at this URL: <http://www.fantasea.com/registration>.

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