



Fantasea Line

UWL-400F

Wide Angle Lens

Cat. No. 5140

Instruction Manual



DISCLAIMER

While every effort has been made in order to ensure that the information included in this instruction manual is accurate and complete, no liability will be accepted for any errors or omissions. Fantasea Line reserves the right to change product specifications and features described herein at any time without prior notice. No part of this instruction manual may be copied, translated or reproduced without the prior written permission of Fantasea Line. Fantasea Line makes no warranties aside from limited product warranty as described at the end of this manual.

INTRODUCTION

The Fantasea **UWL-400F Wide Angle Lens** is a sharp “wet” wide angle conversion lens that fits onto the housing lens port thread and can be installed and removed during the course of the dive. It was designed for cameras featuring a 24mm lens (35mm equiv.) or any higher focal range. 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. It also allows focusing on short distances, making it perfect for CFWA (Close Focus Wide Angle) photography.

SPECIFICATIONS

- 52mm thread mount
- Bezel / Barrel material: Aluminum alloy with black hard anodize, ABS
- Lens material: 5 groups and 5 elements
- Lens coating: Hard coating on the Polycarbonate dome lens + Multi layer AR coating on all glass lenses
- Depth rated to 100 meters / 330 feet
- Magnification: 0.50X
- Angle of View: 120 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.
- Focus distance: 0mm from the dome
- Weight (on land): 591 g / 20.8 oz
- Weight (underwater): 200 g / 7.1 oz
- Dimensions (diameter x height): 121.8 x 76 mm / 4.8 x 3.0 inch
- Included in package: Neoprene dome cover, rear lens cap, EyeDaptor M67-F52 lens adaptor, secure string, microfiber cloth, O-ring remover and lens padded carrying case

INCLUDED IN PACKAGE



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- 1. UWL-400F Wide Angle Lens
- 2. Rear lens cap
- 3. Neoprene dome cover
- 4. Microfiber cloth

- 5. O-ring remover
- 6. Eyedaptor M67-F52 lens adaptor
- 7. Secure string
- 8. Velcro secure strap
- 9. Padded carrying case

COMPATIBILITY

The **UWL-400F** is compatible with most cameras featuring a 24mm lens (or a higher focal range). It can also be used with some cameras featuring a wider lens by zooming in to avoid a vignette. The **UWL-400F** features a 52mm thread and can be mounted directly on 52mm threaded housing lens ports or on lens ports featuring a different thread, by using a compatible 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. Install the secure string on the lens:
 - a. Using the O-ring remover, remove the two rubber bands installed on the lens barrel.
 - b. Wrap the Velcro secure strap around the lens barrel starting with the end featuring the Velcro, having the Velcro facing out of the lens (Fig.1).
 - c. Continue until the strap is wrapped around itself and the Velcro attaches (Fig.2).
 - d. Install the secure string by inserting it through the lanyard loop on the Velcro secure strap, then pulling it through itself and testing it in order to make sure it is secure (Fig.3).



3. It is recommended to attach the secure string of the lens to the housing, in order to secure it. If making use of an arm in the system, the secure string can be secured to the arm rather than to the housing.
4. Unscrew the rear cap of the lens until it can be removed.
5. 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) in order to prevent corrosion. Make sure that no grease is applied over the lens glass.
6. If using an adaptor, install it on the lens by screwing it all the way in.

7. During the dive, install the lens by screwing it on to 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 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.
9. 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.
10. **Note that water must enter the gap between the lens port and UWL-400F 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.
11. The UWL-400F Lens can be removed and installed repeatedly throughout the course of the dive.
12. When removing the UWL-400F Lens from the housing, it can be conveniently stored by attaching it to an EyeGrabber Lens Holder, which mounts on any standard Flex or B&J Arm. 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, will 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-400F Lens is mounted on the housing. The UWL-400F 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>.

For further information, please contact us at info@fantasea.com or visit our website www.fantasea.com