

Sealife[®] **Wide Angle Lens** (item # SL970)



Instruction Manual

SeaLife 24mm wide-angle lens (item # SL970)



Lens parts:

- 1 - Objective lens
- 2 - Rubber lens hood
- 3 - Water drainage holes
- 4 - Snap-on port ring
- 5 - Focusing lens
- 6 - Lanyard connector

Also included (not shown)

- Padded carry case
- Safety lanyard (strap)

Great wide-angle pictures made easy

The secret to taking bright and colorful underwater pictures is to get as close as possible to the subject.

Without a wide angle lens, you may be too far away from the subject to take a colorful picture. With a wide angle lens, you increase field of view up to 50%. Every picture is sharp from 2' shooting distance to infinity.

The pictures to the right are taken at 5' (1.5m) distance. The turtle picture on top was taken without wide angle lens, the bottom was taken with the wide angle lens. The wide angle picture allows you to capture the surrounding reef scene and still take a bright and colorful picture.



Quickly snaps on to any SeaLife underwater camera

Push wide angle lens onto lens port of any SeaLife underwater camera. Lens can be attached above or below water.



On land, lay camera flat on table and push lens onto lens port. Underwater, hold lens and camera and push lens onto lens port. Practice this a few times so you get the “feel” of how quickly and easily the lens attaches.

Attach safety lanyard to lens and camera

Clip safety lanyard on to lens and camera to prevent dropping or losing the lens.



Shooting distances

Camera	Distance	Angle of Coverage	
		w/o lens	w/lens
SportDiver	2' (0.6m) to ∞	40°	54°
ReefMaster CL	2' (0.6m) to ∞	40°	54°
ReefMaster RC	2' (0.6m) to ∞	40°	54°
Digital DC100	2' (0.6m) to ∞	36°	48°
Digital DC200	2' (0.6m) to ∞	36°	48°
Digital DC250	1' (0.3m) to ∞	32°	50°
Digital DC300	2' (0.6m) to ∞	31°	47°
Digital DC310	2' (0.6m) to ∞	31°	47°

Note:

Distance are measured from the front of the wide angle lens to the subject.

Angle of Coverage

The wide angle lens will increase the camera lens angle of coverage up to 50%. As a general rule, you can fit a 5' (1.5m) wide object into the picture frame at about 5' (1.5m) shooting distance.

Quick tips from the pro

- 1) Be patient, calm, and approach subject slowly. Most fish will be frightened and swim away from you. Don't chase fish. Let them come to you.
- 2) Be observant. Study coral heads closely for sea life. You will be amazed at the abundance of sea life that dwells within a small area.
- 3) Be creative and experiment with a variety of photo opportunities.
- 4) Make sure the wide angle lens is completely seated onto housing lens port.
- 5) Use two external flashes to avoid shadowing and to achieve the best color. This also results in interesting color effects with translucent subjects.
- 6) Visually inspect the lens before during and after the dive to make sure no air is trapped between the lens and the camera. If air is trapped between lens and camera, remove lens while underwater and "burp" out the air.

Use the external flash with Wide-Angle lens

The use of an external flash with the wide angle lens is important because the wide angles lens will partially block the camera's internal flash. The only time you should use a wide angle lens without the flash is when there is sufficient sunlight to illuminate the subject.

Make sure flash is aimed at subject before taking picture. Flash head should not be positioned too far in front of camera since this may cause glare if the flash is aimed directly at the lens.

Use at least one external flash at all times. This will maximize brightness and color of your underwater pictures, and prevent shadowing caused by the wide angle lens.

Use two external flashes to avoid shadowing caused by the external flash and to achieve the best color. This also results in interesting color effects with translucent subjects.

Contact your local dive dealer for more information on SeaLife external flashes or visit our website at www.sealife-cameras.com.

Film selection for wide-angle photography

- 1) Use 200 speed color print for most underwater applications.
- 2) Use 100 speed film in very bright light conditions.
- 3) Use 400 or 800 speed film for low-light or indoor lighting conditions.
- 4) 50 or 100 speed slide film may also be used but be aware that no adjustments for brightness or color can be made when processing slide film. Print film allows for some adjustments of brightness and color when processing prints.
- 5) Always store film in a cool and dry place.
- 6) Use Moisture Muncher® brand drying agent to preserve life of film and batteries. Moisture Muncher® is available at your local dive or photo dealer.

Warnings

- 1) Safety First. Always observe diving safety rules.
- 2) You must be in total control of your buoyancy before taking picture.
- 3) Evidence of tampering or not following care procedures will void warranty.
- 4) Keep lens away from children—parts are a choking hazard.
- 5) You should keep your distance from certain types of sea life to protect our environment and avoid injury. Ask your dive instructor.

Caring for your wide angle lens

- 1) Soak lens in fresh water for at least 20 minutes after each use and allow to dry before storage. Never let salt water to dry on lens.
- 2) Follow proper lens cleaning instructions. First, brush or blow away loose dirt, sand or debris from lens surface. Then, clean lens with a mild soap water solution and dry with a clean cotton cloth. Do not use any cleaning agents or chemicals.
- 3) Always keep lens in carry case provided during storage or transportation to prevent scratching lens.
- 4) Never allow lens to sit in direct sunlight for prolonged periods of time. This may heat up the lens and damage the waterproof seal.
- 5) Never jump in water with camera or lens. First enter water and have someone hand you the equipment.
- 6) Always use the safety lanyard to prevent dropping or losing lens.
- 7) Burp any air trapped between lens and camera lens port.
- 8) Store lens in a cool, dry area.
- 9) Do not disassemble the lens, it will void your warranty.

Warranty statement and service information

Service: Contact one of our underwater experts at Pioneer Research or send the wide angle lens to an authorized SeaLife Service Center in your country or directly to the US manufacturer (address below). Include a clear description of the problem, sample pictures (pictures may not be returned to you), proof of purchase, your return address and daytime phone number and ship freight prepaid.

Limited Warranty: This product will be replaced or repaired free of charge within one year of purchase date in the case of a manufacturing defect in materials or workmanship. Shipment must include proof of purchase with purchase date. Excluded are any consequential damages, cosmetic damages, damages to product which shows abuse or non-conformance to instructions, scratches to lenses or lens coatings. SeaLife items used in rental operations are excluded from this warranty and have a special service support program.



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