

SEA&SEA

UNDERWATER CAMERA

MOTORMARINE III

Instruction Manual



UNDERWATER CAMERA **MOTORMARINE III**

Introduction

Thank you and congratulations on your purchase of Sea & Sea's Motor Marine III. For optimal performance, please read this manual before use and retain it for future reference.

Table of Contents

Safety Precautions	2	Installing the Batteries	14
Handling the O-ring	3	Turning On the Power	15
Identification of Parts	5	Auto Cut-Off	15
Controls and Functions.....	7	Opening the Back Door	16
Power Switch	7	Closing the Back Door	16
Shutter Release Button.....	7	Loading the Film	17
Shutter Speed Button.....	7	ISO Film Speed.....	18
Target Light Button	8	Removing the Film	18
Rewind Button.....	8	Attaching the Strobe Sync Connector ...	19
Aperture Dial	8	Taking Pictures	20
Focus Control.....	9	Tips on Underwater Photography.....	20
Strobe Bracketing Dial	9	Camera Maintenance and Storage..	20
Aperture-Preferred AE Mode	10	Battery Storage	21
Viewfinder	11	Repairs and Checkups	21
LCD Panel	12	Specifications	22

Safety Precautions

- To understand how to use this product safely, please read the following precautions before use.

*The precautions listed here have been divided into "WARNING!" and "CAUTION!". These precautions, particularly those marked "WARNING!", are intended to prevent potential serious bodily injury or accidental death due to misuse. PLEASE CAREFULLY READ and OBSERVE all warnings and cautions.



WARNING! refers to operations that may cause death or serious injury.



CAUTION! refers to operations that may cause physical injury or equipment damage.

<General Precautions>



WARNING!

- Keep the lens and viewfinder out of direct sunlight. Focused light may cause fire.
- Do not attempt to disassemble the camera. Internal high voltage circuitry can cause personal injury.
- Do not put O-ring grease, batteries or O-ring in your mouth. Keep out of reach of children.



CAUTION!

- Do not open the camera in a wet or sandy environment. Protect the interior from moisture and debris.
- Do not swing the camera by the strap. Be careful not to drop the camera. Violent impact can severely damage the camera.
- Do not alter or modify the camera. User modifications can result in flooding or malfunction. User modifications will void the product warranty.
- If you detect smoke or an acrid odor, discontinue use immediately. Remove the batteries from the camera. Bring or send the camera to an authorized Sea & Sea dealer for repair.
- In the event of flooding, turn off the camera and discontinue use.
 - * Beware of increased pressure inside the camera. Handle with extreme care when opening.

- * Immediately remove all batteries.
- * Bring to an authorized Sea & Sea dealer as soon as possible.
- SEA & SEA Products Ltd. will not be responsible for unobtained pictures or costs related to the shooting of such pictures due to malfunction of the camera.
- Sea & Sea Products Ltd. will not be responsible for any damages or repairs if the camera is not used in accordance with the Instruction Manual.
- Be careful not to drop, jolt, or abuse this camera. Shock or vibration affects the delicate internal circuitry and may cause damage or malfunction of the camera.
- Do not expose this camera to strong radio waves or magnetic fields; they may cause camera malfunction.
- The operational temperature range of this camera is -5° to $+40^{\circ}\text{C}$ (23° to 104°F). It may not function properly if the ambient temperature is less than or exceeds this range.

Handling the O-Ring

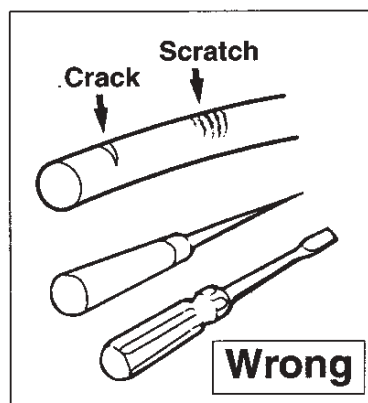
The O-ring on the front case of your Motor Marine III provides an airtight waterproof seal. Improper handling and maintenance of the O-ring can cause flooding. Please observe the following precautions carefully.

CAUTION!

A special silicone oil-impregnated blue O-ring is used in this product. For maintenance of this blue O-ring, use Sea & Sea silicone grease in a tube with BLUE cap and lettering. Never use Sea & Sea silicone grease in a tube with a BLACK cap or other manufacturers' brands. Incompatible silicone grease will cause the O-ring to lose its waterproofing ability. If you have applied incompatible grease on a blue O-ring, the O-ring must be replaced.

● Always inspect the O-ring for scratches, cracks or cuts.

If the O-ring is damaged, it must be replaced. Never remove the O-ring with a sharp tool. To avoid damaging the O-ring, use the O-Ring Remover, a tool especially made for O-ring removal.



● **Inspect for debris.**

Make sure that there are no foreign particles, such as dust, sand, or hair, on the O-ring, O-ring groove, or O-ring contact surface. Such contamination will breach the seal and cause flooding.

● **Lubricate with silicone grease.**

Silicone grease protects the O-ring from drying and abrasion. Dab a small amount of grease onto your finger and draw the O-ring through your fingers until evenly coated. Use the silicone grease sparingly. Too much grease attracts debris.

● **Do not crimp the O-Ring.**

Hold the O-ring straight and do not bend or twist it when fitting it into the O-ring groove.

● **O-ring storage.**

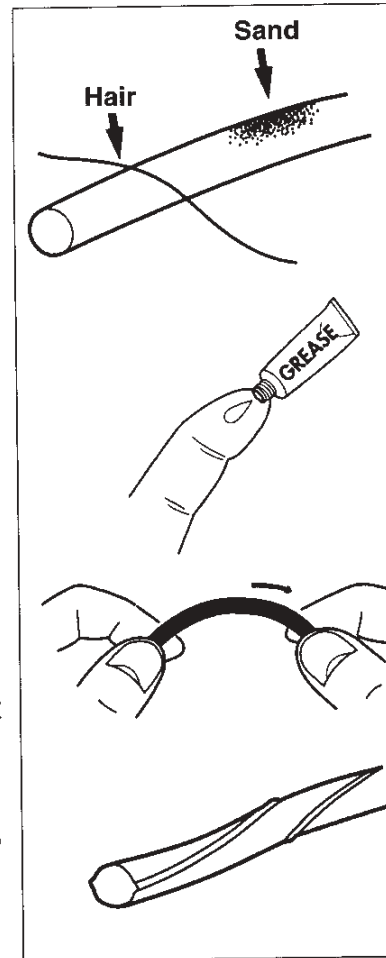
Always store your O-ring in an airtight container and in a cool environment. Keep out of direct sunlight. Take care that it is stored flat and not bent or twisted. Do not place any heavy objects on it; excessive weight will flatten it and impede its sealing capability.

● **The O-ring's life is one year.**

The life of the O-ring depends on the diligence of your maintenance, frequency of use, and storing conditions, but on average, if you maintain your O-ring properly, it will retain its watertight integrity for one year.

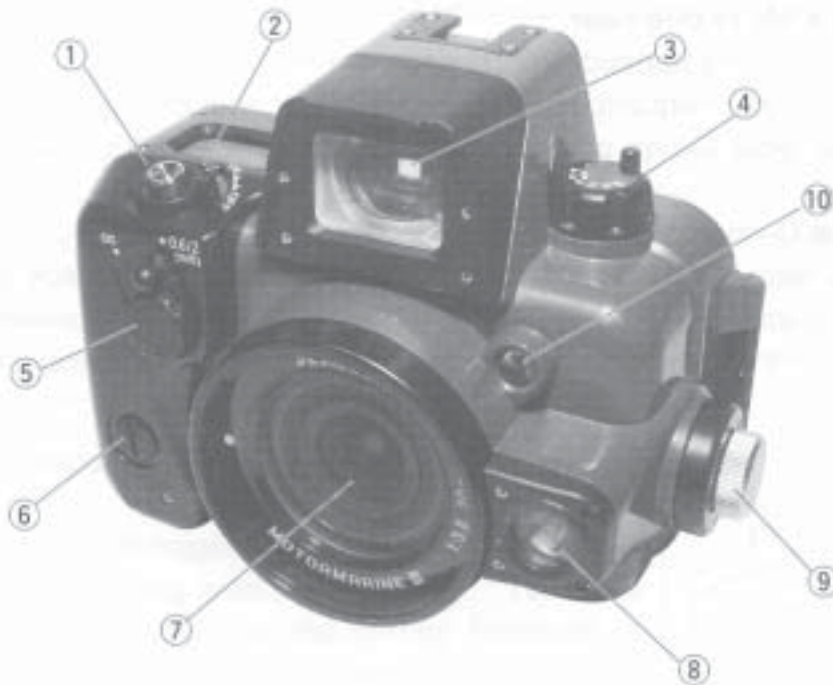
● **Remove the O-ring for inspection.**

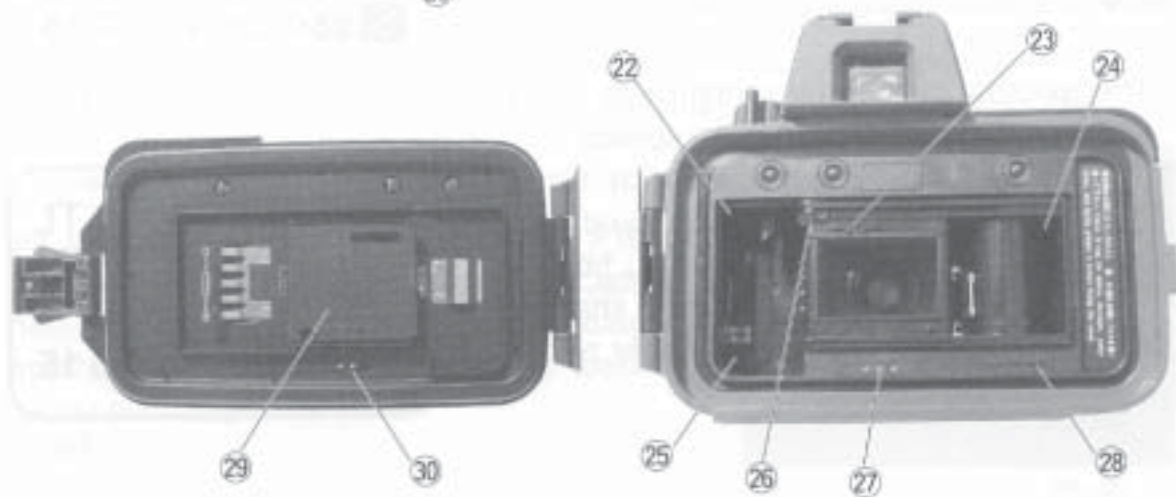
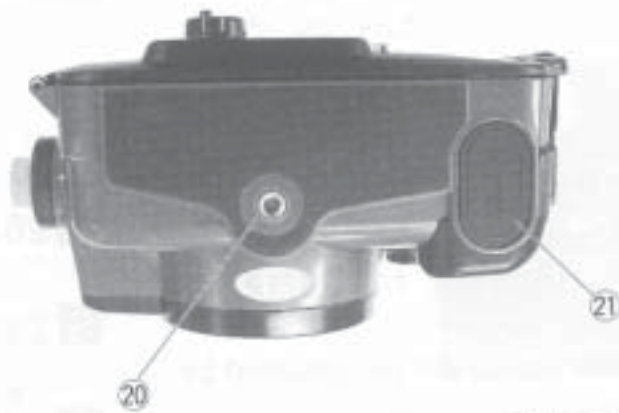
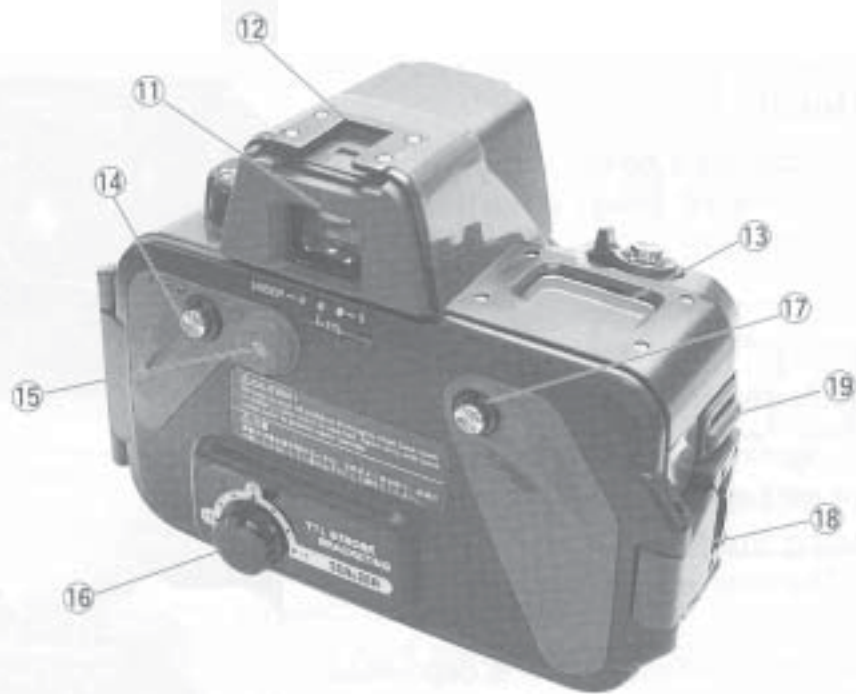
Before use, remove the O-ring from its groove and carefully check the O-ring, the O-ring groove, and the O-ring contact surface. A thorough examination of the O-ring and O-ring groove is not possible unless the O-ring has been removed.



Identification of Parts

- ① Shutter Release Button
- ② Power Switch
- ③ Viewfinder Window
- ④ Aperture Dial
- ⑤ Focus Lever
- ⑥ Battery Chamber Release Button
- ⑦ Lens
- ⑧ Target Light
- ⑨ Strobe Connector
- ⑩ CDS Photo Sensor
- ⑪ Viewfinder Eyepiece
- ⑫ Accessory Shoe
- ⑬ LCD Panel
- ⑭ Target Light Button
- ⑮ Rewind Button
- ⑯ TTL Strobe Bracketing Dial
- ⑰ Shutter Speed Button
- ⑱ Back Door Latch
- ⑲ Back Door Lock
- ⑳ Tripod Mount
- ㉑ Battery Chamber Cover
- ㉒ Film Rewind Contact
- ㉓ Sprocket
- ㉔ Film Drum
- ㉕ Film Cartridge Compartment
- ㉖ Film Guide
- ㉗ Film Guide Spring
- ㉘ Film Tip Mark
- ㉙ Pressure Plate
- ㉚ Film Guide Roller





Controls and Functions

Power Switch

Turns ON the camera's power when set at the ON position. Turns off power when set at the OFF position. (Photo 1)



(Photo 1)

Shutter Release Button

- When you depress the button firmly and fully, the shutter will be released. (Photo 2)
- After loading the film, depress the button halfway. The film will advance to the first frame.
- When the shutter release button is depressed halfway, the target light turns on for approximately 5 seconds. When the shutter release button is depressed fully, the shutter is triggered and the target light goes off.



(Photo 2)

Shutter Speed Button

Press this button to select the shutter speed. You may select 1/15, 1/30, 1/60, 1/125 or 1/250. (Fig.3)

The selected shutter speed will be indicated by the ▼ indication changes as follows:

S 250 125 60 30 15

S 250 125 60 30 15

S 250 125 60 30 15

(Fig.3)

- * The external strobe will synchronize in TTL and manual modes at all shutter speeds.
- When the shutter speed is set at 1/30 or 1/15, a blur warning will be displayed in the LCD panel. If you see this icon, hold the camera steady and take care not to shake the camera when pressing the shutter release button. (Fig.4)



(Fig.4)

Target Light Button

Press this button once; you will see TL displayed on the LCD panel. (Fig. 5-①)

- When the shutter release button is depressed halfway, the target light turns on for approximately 5 seconds. When the shutter release button is depressed fully, the shutter is triggered and the target light goes off.

To disable the target light, press the target light button again; the TL goes off. (Fig. 5-②)

! CAUTION!

- The target light position and beam angle are fixed.

When looking at the subject through the viewfinder, note that the target light always aims at about 5cm/2 inches left from the center of the frame.

- When wide and macro conversion lenses are mounted, the light beam is obstructed. You cannot use this target light with those lenses.



(Fig.5-①)



(Fig.5-②)

Rewind Button

- The rewind feature enables you to rewind the film mid-roll.

* You must use a pointed object such as a pen to press this button. (Photo 6)

! CAUTION!

- Film may not rewind or may rewind incompletely if the battery voltage is low or in very cold conditions. Turn the camera off and replace the batteries. Then turn the camera power on and press the rewind button again to rewind the film.



(Photo 6)

Aperture Dial

Six aperture levels (F3.8, F5.6, F8, F11, F16 and F22) are available with the camera. In addition half stop values are available by placing the aperture dial arrow between F stop (between clicks) on the aperture scale.



(Photo 7)

Focus Control

Two focus settings are available. Turn the focus control lever to select either 0.6/2 (m/ft) or ∞ (infinity), depending on the apparent lens-to-subject distance.

- Always set the focus at ∞ (infinity) when using a conversion or macro lens. (Photo 8)



(Photo 8)

! CAUTION!

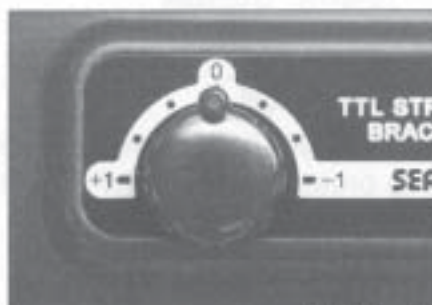
You cannot set focal distance between 0.6/2 (m/ft) and ∞ (infinity).

Depth of Field for the 20mm Master Lens

F	F3.8	F5.6	F8	F11	F16	F22
∞ m	0.8~3.2	0.7~10	0.6~ ∞	0.5~ ∞	0.4~ ∞	0.3~ ∞
∞ ft	2.3~10.5	2.3~32.8	2~ ∞	1.7~ ∞	1.3~ ∞	1.0~ ∞
0.6m	0.45~0.9	0.4~1.0	0.38~1.4	0.33~3.1	0.28~ ∞	0.23~ ∞
2 ft	1.5~3	1.3~3.3	1.2~4.6	1.1~10.2	0.9~ ∞	0.8~ ∞

Strobe Bracketing Dial

To operate the TTL strobe bracketing function, turn the dial left or right of "0". The intensity of the external TTL strobe light output can be adjusted in six 1/3 + or - increments. (Photo 9)



(Photo 9)

! CAUTION!

- Strobe Bracketing may malfunction when ISO 200 or 400 speed film is loaded and when Strobe Bracketing is adjusted to positions.
- Exposure compensation can be controlled only by the output of the strobe with this camera.
- The TTL Strobe Bracketing function cannot correct exposure (aperture/shutter speed) when shooting ambient light photography.
- The TTL Strobe Bracketing function cannot be used in manual flash mode (Full, 1/2 or 1/4), TTL slave mode or manual slave mode, or with strobes with a guide number controller.

Aperture-Preferred AE Mode

The Motor Marine III features an aperture-preferred AE mode. In this mode you determine the f-stop and the camera automatically selects the shutter speed for an optimum available light exposure.

To set the camera to the aperture-preferred AE mode, depress and hold the shutter speed button until you see the AE in the upper right corner of the LCD.

• **The CDS photo sensor in the front of the camera measures available light when the shutter button is depressed halfway.**

● When an incorrect exposure combination is detected, the shutter speed bar will disappear from the LCD as a warning.

To arrive at the correct aperture and shutter speed combination, turn the aperture dial to select a larger or smaller aperture.

1. The illustration below shows that 1/60 shutter speed is selected in AE mode. (Fig.10)



(Fig.10)

2. When there is an overexposure, the shutter speed bar disappears and a ▼ appears above 1/250. Set to a smaller aperture. (Fig.11)



(Fig.11)

3. When there is an underexposure, the shutter speed bar disappears and a ▼ appears above 1/15. Select a larger aperture or use an external strobe. (Fig.12)



(Fig.12)

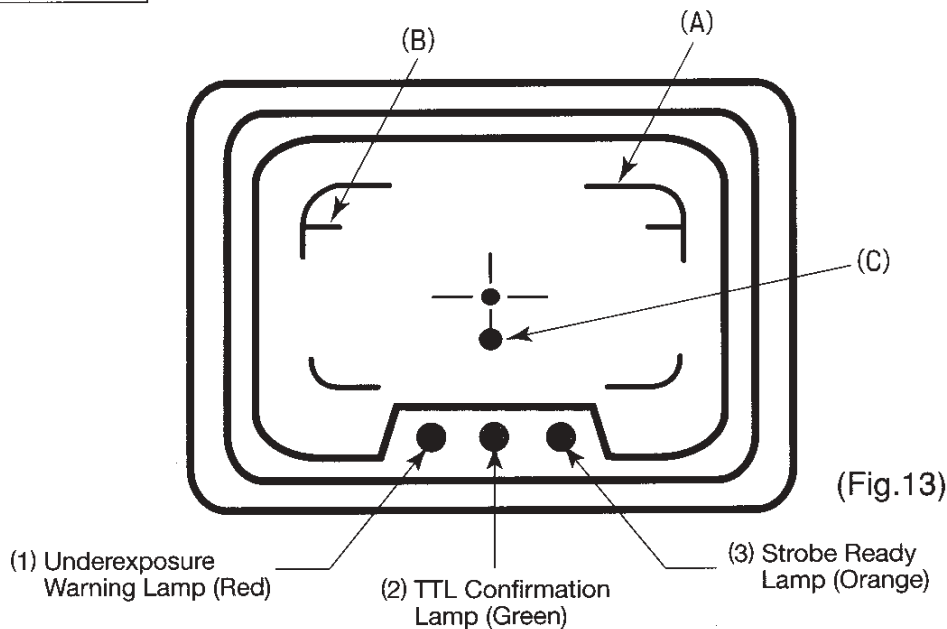
4. When the aperture/shutter speed combination is correct, the shutter speed bar will be displayed and ▼ will appear above the shutter speed selected.

To cancel the aperture-preferred AE mode, press the shutter speed button again.

! CAUTION!

- The aperture-preferred AE mode does not function when a conversion lens is used.

Viewfinder



The built-in viewfinder provides framing guides for composing your picture with the built-in 20mm lens.

- When the subject is 0.6m/2ft or beyond, compose the scene using the larger viewing frame on all four corners (A)
- When the subject is at 0.6m/2ft or closer, compose within the A guide marks on the bottom of the frame and the B guide marks at the top.
- When the subject is closer than 0.6m/2ft, it is necessary to correct for parallax. Tilt the camera slightly upward to position the subject with the "●" mark (C) below the "+" mark. You may also use the target light by placing it 5cm/2in left of the center of the subject.

(1) Underexposure Warning Lamp (Red)

After aperture and shutter speed have been set, depress the shutter release button halfway. A red light in the LED warns of an underexposure.

CAUTION> This feature does not work when external lenses are mounted; external lenses obstruct the CDS sensor.

To correct an underexposure, change the aperture or shutter speed setting. Depress the shutter release button halfway. If the lamp does not illuminate, depress the shutter release button fully to take the picture.

● An external strobe is necessary when the red lamp turns on at f/3.8 and a shutter speed of 1/15 second.

(2) TTL Confirmation Lamp (Green)

This lamp turns on after a shot to confirm that light output was within the TTL light level range necessary for a correct exposure.

(3) Strobe Ready Lamp (Orange)

This lamp turns on when the external strobe is fully charged and ready to be fired.

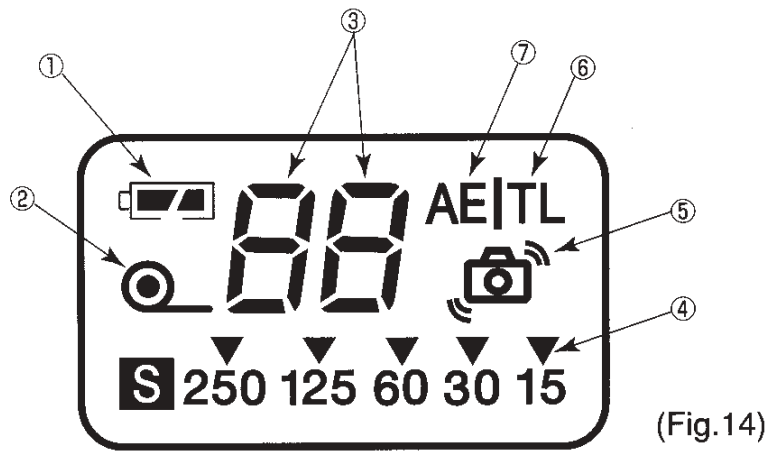
! CAUTION!

● **For use with Nikon Speed Light SB103, SB104 or SB105**

When the Motor Marine III is used with Nikon Speed Light SB103, SB104 or SB105, the strobe ready (charged-up) lamp in the viewfinder will start blinking as soon as power switch of these strobes is turned on. The difference in electric signals between Sea & Sea Nikon strobes causes this phenomenon. When the MMIII is used with SB103, SB104 or SB105, please check the charging status of the strobe with the strobe ready lamp on the strobe.

● When two strobes are connected to the camera with 5-pin Dual Sync Cord N (#03470) or Dual Sync Connector N (#03450), check the charging status of the strobes with the charged-up lamps on the strobes.

LCD Panel



* All of the display icons are shown below:

The LCD backlight turns on for approximately 10 seconds when the shutter release button is depressed halfway.

* The backlight goes off as the shutter is triggered.

(1) Battery Check

This icon shows the remaining power of the batteries.

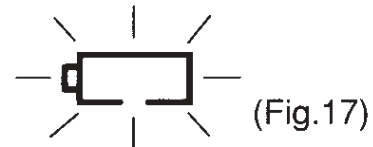
There is enough power left in the batteries.



There is limited power left in the batteries.



Replace the batteries now. (The icon blinks.)



! CAUTION!

●When Battery Level Symbol (in LCD display panel) starts blinking, other symbols or information will disappear and the camera will stop advancing or rewinding film due to low battery voltage. Replace the batteries with new ones when Battery Level Symbol starts blinking.

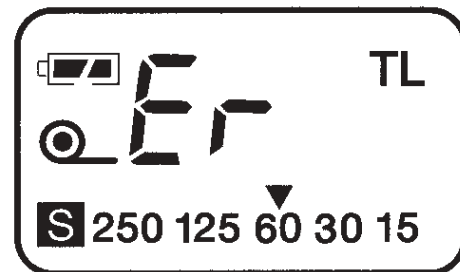
(2) Film Cartridge

This icon will be displayed when the film cartridge is properly loaded in the camera.

(3) Film Counter

The number displayed shows the number of frames exposed.

●When "Er" is displayed, there is a film loading error. You need to reload the film. (Fig.18)



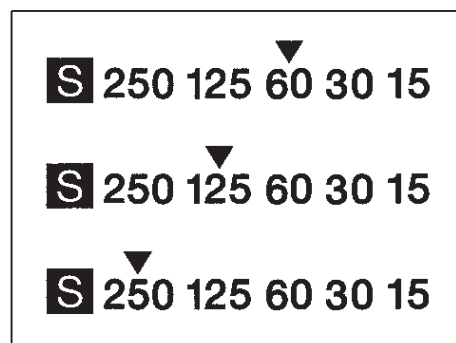
(Fig.18)

(4) Shutter Speed

The shutter speed selected is indicated by the ▼ symbol on the LCD panel. (Fig.19)

(5) Blur Warning

This icon will be displayed on the LCD panel when a slow shutter speed of 1/30 or 1/15 is set.



(Fig.19)

(6) Target Light

TL will be appear when the target light is ON. It will not be displayed when target light is OFF.

(7) AE

This indicates that the camera is set to the aperture-preferred AE mode.

! CAUTION!

●Aperture-preferred AE mode is not available when an external lens is used.

Installing the Batteries

The Motor Marine III is powered by two (2) AA batteries (alkaline, nickel-cadmium, lithium or nickel metal hydride). Do not use any other type of batteries in this camera.

CAUTION!

- Insert the batteries according to polarity marks.
- Do not use old and new batteries or batteries of different makes together.

1. Using a coin, turn the battery compartment release button on the front left side of the camera 90° (follow the direction of the arrow.) (Photo 20)
2. Pull out the battery pack from the bottom of the camera. (Photo 21)



(Photo 20)

CAUTION!

- When pulling out the battery pack, hold the camera upright so that the opening of the battery compartment faces down.
3. Insert batteries. Be sure to insert the batteries according to the polarity marks (+ and -) shown on the battery pack.



(Photo 21)

CAUTION!

- Make sure that the O-ring of the battery pack cap and the contact surface of the O-ring of the battery compartment are free from dust, sand or hair. (See the "Handling the O-ring" section of this booklet.)
 - When inserting the battery pack, hold the camera upright so that the opening of the battery compartment faces down.
4. Push the battery pack into the battery compartment until you feel it click into position.



(Photo 22)

CAUTION!

- The coin groove on the battery chamber release must be in the vertical direction. (Photo 22)

Turning On the Power

Turn the power switch to the ON position to turn on the power.
The LCD panel will display information. (Photo 23)



* Target light icon blinks at this time.

CAUTION!

- If the Battery Check icon is blinking, replace the batteries immediately. Other data icons will not be displayed and the shutter release will be inoperable when batteries are depleted.

Auto Cut-Off

This camera is equipped with "Auto Cut-Off" that turns off power if there has been no operation for five (5) minutes.

To restore the power, depress the shutter release button halfway or turn the power switch to ON.

CAUTION!

- Do not leave the power switch at the ON position when the camera is not in use; it will continue to consume battery power.

Opening the Back Door

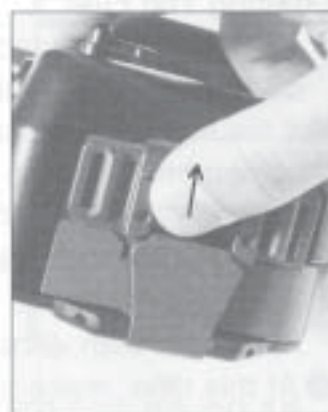
1. Before opening the back door, make sure that the camera is completely dry and free from debris. When the camera is dirty, rinse it with fresh water and dry with soft dry cloth.
2. Slide the back door lock in the direction of the arrow, as shown in the photo below. The latch on the back door will be released (Photo 24-①). Grasp the hinges and pull the back door open (Photo 24-②③). Never use the latch to pull the door open.

CAUTION!

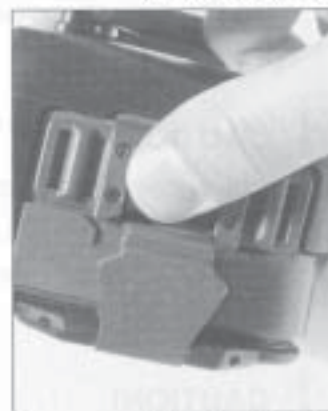
- Do not release the lock underwater. This will flood the camera.
- When opening the back door after use underwater, hold the camera with the back facing down to prevent water from dripping into the camera.
- Do not allow water or sand to penetrate the inside of camera or into the film cartridge compartment.
- Do not touch and prevent grease, sand and dirt from contaminating the film pressure plate, film guide spring or the film guide roller.

Closing the Back Door

1. When closing the back door, make sure that the O-ring contact surface is free from damage, sand, dirt, hair or dust. (See the "Handling the O-ring" section of this booklet.)
2. To close the back door, press the back door firmly with your palm. Close the latch. A click will indicate that the back door is locked.



(Photo 24-①)



(Photo 24-②)

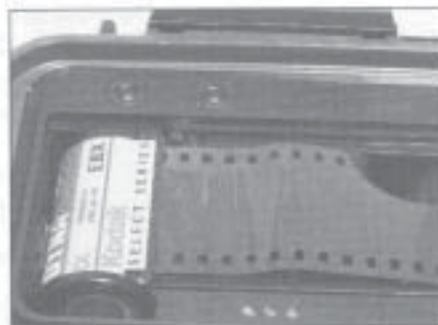


(Photo 24-③)

Loading the Film

Loading The Film

1. Insert the film cartridge into the film cartridge compartment as shown. (Photo 25)
 - If the film cartridge does not easily fit into the compartment, toggle it left and right. Drop the cartridge into the compartment while pressing it against the top of the compartment.
2. Align the tip of the film to the film tip guide mark as shown. (Photo 26)
 - At this time, make sure that the film tip does not extend beyond the film tip mark. Make sure the film sprocket holes are fitted over the sprocket teeth.



(Photo 25)



(Photo 26)

! CAUTION!

- Firmly press the film cartridge down so that the film does not buckle. (See the "Closing the Back Door" section of this booklet.) (Photo 27)

! CAUTION!

- If you close the back door without aligning the film to the film tip mark or with the film buckled, the film may not wind or rewind properly. (Photo 28, 29)



(Photo 27)



(Photo 28)

Right



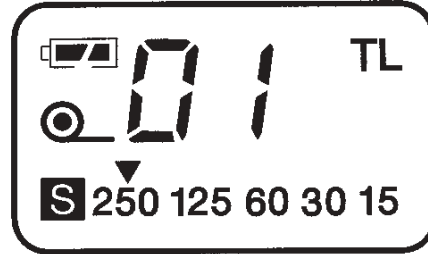
(Photo 29)

Wrong

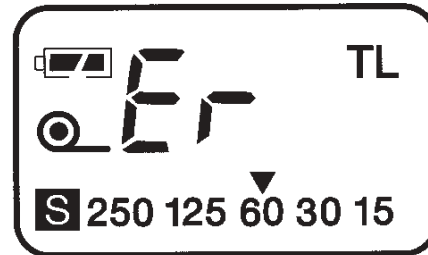
3. Depress the shutter release button halfway to advance the film automatically. The LCD will show the film load icon and the film counter number "1". (Fig. 30)

! CAUTION!

● "Er" blinking on the LCD indicates the film is not loaded properly. In this case, open the back door and load the film again. (Fig. 31)



(Fig.30)



(Fig.31)

ISO Film Speed

DX coded films are recommended for this camera. When you use films with DX coding, the film speed will be automatically set to ISO 50, 100, 200 or 400.

If you load film without DX coding, the ISO film speed will be set to ISO 100.

! CAUTION!

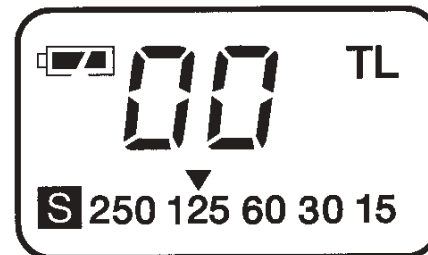
● Infrared film cannot be used with this camera.

Removing the Film

After the last frame of the film has been exposed, the film will automatically rewind. Film counter returns to 00. The film cartridge icon disappears when the film is fully rewound. (Fig. 32)

Make sure that the film cartridge icon has disappeared before opening the back door. (See the "Opening the Back Door" section of this booklet.)

● If you want to rewind the film in the middle of the roll, just press the rewind button. Make sure that the film cartridge mark has disappeared before opening the back door.



(Fig.32)

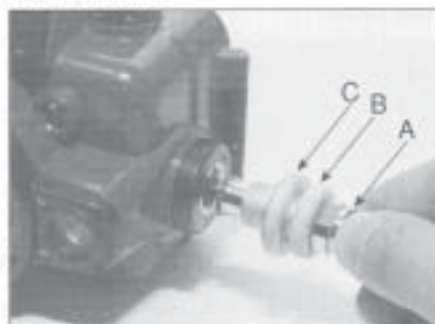
Attaching the Strobe Connector

This camera is equipped with a standard five-pin Nikonos-type connector. Use a strobe with a five-pin connector.

1. Remove the connector cap.

! CAUTION!

- When removing the connector cap, hold the camera with the connector facing down. Do not let water or sand into the connector. Do not touch the connector pins. Avoid grease, sand or dirt on the connector.
2. Make sure that the connector on the sync cord is free from damage or dirt. Clean and lubricate with O-ring grease.
 3. Align the yellow mark on the strobe connector to the index mark on the camera and push straight in.
 4. Turn part "B" of the sync connector until tight.
 5. Turn part "C" of the sync connector until tight.
 6. To remove the connector, release part "C" and then "B", and then pull part "A" straight out. (Photo 33)



(Photo 33)

! CAUTION!

- After use underwater, make sure that the connector is dry and clean. If it is wet or dirty, rinse it with fresh water and wipe off water completely with dry soft cloth before removing the connector from the camera.
- When removing the connector, hold the camera with the connector facing down to prevent water or sand from penetrating the connector. Water in the connector will result in strobe malfunction. (Photo 34)



(Photo 34)

Taking Pictures

Tip on Underwater Photography

Taking photographs underwater is different from taking photographs on land.

- Due to refraction, subjects appear larger and closer. For example, a fish that looks 30cm/12 inches in length on land looks 40cm/16 inches long under water (33% larger).

An actual shooting distance of 2m/6.6 feet appears to be 1.5m/5 feet underwater (25% closer).

You will need to set the focus control according to apparent distance.

F	F5.6	F8	F11	F16	F22
∞ m	0.7~10	0.6~ ∞	0.5~ ∞	0.4~ ∞	0.3~ ∞
∞ ft	2.3~32.8	2~ ∞	1.7~ ∞	1.3~ ∞	1.0~ ∞
0.6 m	0.4~1.0	0.38~1.4	0.33~3.1	0.28~ ∞	0.23~ ∞
2 ft	1.3~3.3	1.2~4.6	1.1~10.2	0.9~ ∞	0.8~ ∞

※In order to check the depth of field of the lens, use the enclosed decal which can be attached to the camera.

CAUTION!

- Focus control position must be either 0.6/2 (m/ft) or ∞ (infinity). You cannot use any value in-between.

Camera Maintenance and Storage

- After use underwater, soak the camera in fresh water, then rinse thoroughly to prevent salt residue from forming and interfering with the function of controls.
- Replace damaged O-rings.
- Be sure not to damage the lens while you pack the camera for storage.
- To prevent malfunction, avoid moisture, direct sunlight, such as on a car dashboard, or extreme heat, such as in a car trunk.
- This camera incorporates plastic parts. Do not apply chemicals such as paint thinner, alcohol or benzine to the camera, since the organic solvents contained in these chemicals damage the plastic parts and may cause flooding or malfunction.
- Do not store the camera in an area with insecticide; exposure may cause malfunction.

- Remove O-rings before air travel. The difference in air pressure may cause difficulty in opening the back door.
- To prevent condensation in the camera, avoid rapid temperature changes such as moving to and from an air conditioned room.

Battery Storage

- If you do not use the camera for a long time, turn off the power switch and remove batteries to prevent battery leakage.
- Beware of decline in battery performance in a cold environment. This decline may be temporary and the battery may regain its performance after it has been brought to a warmer environment.
- * Low temperature sometimes deteriorates battery performance, causing camera malfunction. When you take pictures in a cold environment, bring alternative sets of batteries and keep them warm for replacement.

Repairs and Checkups

- To ensure the performance of this camera for a long time, Sea & Sea recommends you to bring it to an authorized Sea & Sea service center for an annual overhaul.
- Do not remove the serial number label (production number label).
- Before you bring the camera for repair, check the battery level and other items in this booklet.
- When repair is necessary, schedule early to allow a reasonable time for repair.

Specifications

Product Type:	Lens-shuttered all-weather 35mm camera
Frame Size:	36 x 24mm (JIS135 film)
Lens:	f = 20mm, F3.8 optical lens, 6 elements in 4 groups
Focus Control:	2-point manual focusing (∞ / 0.6m) Depth of Field (land, measured distance): 0.6m ~ ∞ (at " ∞ " point / F8) 0.38 - 1.4m (at "0.6m" point / F8) Depth of Field (underwater, apparent distance): 0.6m ~ ∞ (at " ∞ " point / F8) 0.38 - 1.4m (at "0.6m" point / F8)
ISO Film Speed:	Automatically set with DX coded films ISO 50, 100, 200 and 400
Exposure Control:	Underexposure warning (Red LED in the viewfinder window turns on when the shutter release is depressed halfway) CDS photo sensor, LED indication
Viewfinder:	Albada finder with x0.35 magnification, 80%+ coverage ratio
Information Displayed in Viewfinder Window:	Coverage: Bright frame, with 60cm parallax compensation guide Red LED: Underexposure warning lamp (turns on when shutter release is depressed halfway) Green LED: TTL automatic light level confirmation lamp (for external TTL strobe) Orange LED: Strobe ready lamp (for external strobe)
Shutter Release:	Electronic shutter, with 1/15, 1/30, 1/60, 1/125 and 1/250 shutter speeds Strobe synchronization available at any shutter speed
Sync Connector:	Five-pin external connector (Nikonos type)
Power Source:	2x AA batteries (3V), Alkaline manganese, nickel-cadmium, nickel metal hydride or lithium
Film Advance:	Auto loading: Feeds to the first frame by depressing the shutter release button halfway Auto rewind: Rewind button provided for rewinding before the end of film
Other Features:	Information display on LCD panel (with backlight) Target light TTL Strobe bracketing Aperture-preferred AE mode
Depth Rating:	60m/200 feet
Dimensions/Weight:	125 x 95 x 175mm/4.9 x 3.7 x 6.9 inches (H x W x D) 940 g/2.1 lbs (land, including batteries)
Accessories Included:	Silicone grease, O-ring, instruction manual

※Specifications subject to change without notice.