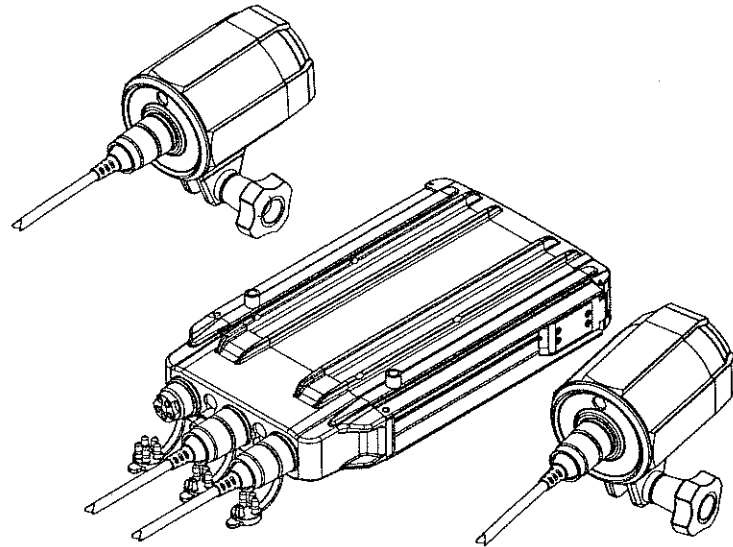


**SEA&SEA**

# BLX-55W



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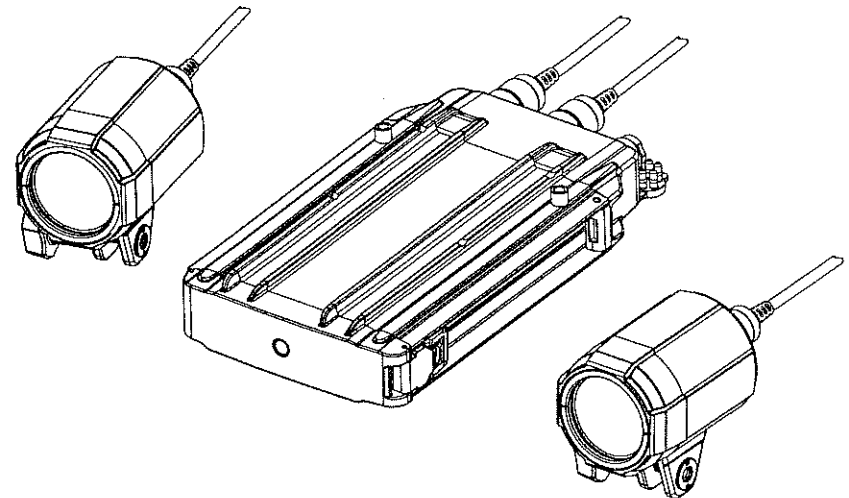
# 35410

## BLX-55W

Instruction Manual

# 35310

**BLX-55W LIGHT**



# BLX-55W

Thank you and congratulations on your purchase of SEA & SEA's BLX-55W Video Lighting System. For efficient operation of all functions and to optimize performance, please read this manual before use. Retain for future reference.

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## Safety Precautions

- For safe and proper use of this product, please read the following precautions before use.

\* Misuses listed under the following precautions could lead to serious consequences. Please observe the precautions as they contain highly important information related to personal and product safety.

- **DANGER!** Situations that involve a high risk of serious injury or death.
- **WARNING!** Situations that could result in serious injury or death.
- **CAUTION!** Situations that could result in property damage or personal injury.

## 〈General Precautions〉



### DANGER!

- Never short-circuit the battery terminals.
- Never attempt to disassemble or modify this light. Tampering with this product may cause electrical shock, fire hazard and explosion.



### WARNING!

- Do not open or close the battery module near fire. Combustible gas inside the product poses a fire and explosion hazard.
- Use only the Sea & Sea Ni-MH battery specified for this product. Use of any other battery may generate toxic gas.
- Do not turn on this light with the reflector face down on a table or floor, or in close proximity to combustible materials, as that may cause fire.
- Keep the silicone grease, O-ring, and battery out of reach of children.



### CAUTION!

- Always disengage the battery from the light after use.
- Always make sure that the lights and accessories are securely mounted to prevent them from falling off, becoming lost, causing personal injury or equipment malfunction.
- Do not carry or swing the BLX-55W by the cable. Be careful not to drop it. Violent impact can severely damage the product.
- Do not open the light in a wet or sandy environment. Protect the interior from moisture and debris.

- Do not alter or modify this light. User modifications can result in flooding or malfunction. User modifications will void the warranty.
- If you detect smoke or an acrid odor, discontinue use immediately. Remove the battery and send the product to an authorized Sea & Sea service center.
- In the event of flooding, turn off the light. Discontinue use immediately.
  - \* If flooded, beware of increased pressure inside the light. Handle with extreme care when opening.
- Always rinse this product with fresh water after use.
- Never use petroleum solvents, such as alcohol or paint thinner, to clean this product; such products might mar or otherwise damage the finish.
- Do not short-circuit the connector pins. That may cause equipment malfunction.
- This product has been constructed with an airtight seal. When packing this product for airplane travel, open the cases or remove the O-ring to alleviate pressure build-up due to atmospheric changes.
- This product incorporates plastic parts. Do not subject this product to extreme heat, such as on a car dashboard, or to direct sunlight. Plastic parts are prone to warping.
- Do not store this product with the front and rear cases sealed in a heated environment. It may cause flooding or malfunction.
- Use this product in accordance with this instruction manual to prevent flooding, product damage or malfunction. User mishandling will void the warranty.
- Sea & Sea Products Ltd. will not be responsible for costs incurred should malfunction of the BLX-55W light, battery, camera or accessories result in unsatisfactory images.

## Handling the O-Ring

The O-ring on the front case of your BLX-55W provides an airtight waterproof seal. Improper handling and maintenance of the O-ring can cause flooding. Please observe the following precautions carefully.

### ● 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.

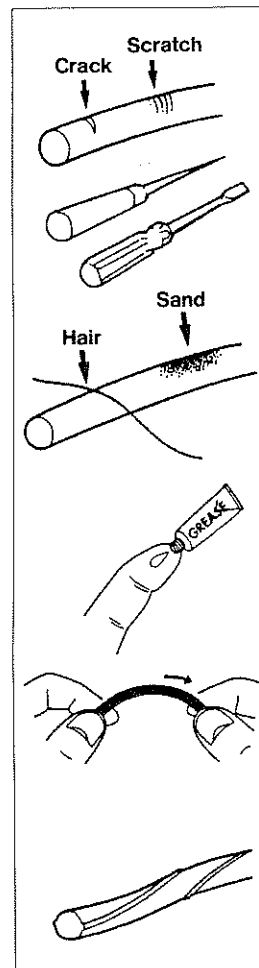
Always store your O-ring in an airtight container and in a cool environment. Keep out of direct sunlight. Take care that it is stored flat and not bent or twisted. Do not place any heavy objects on it; excessive weight will flatten it and impede its sealing capability.

### ● 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.

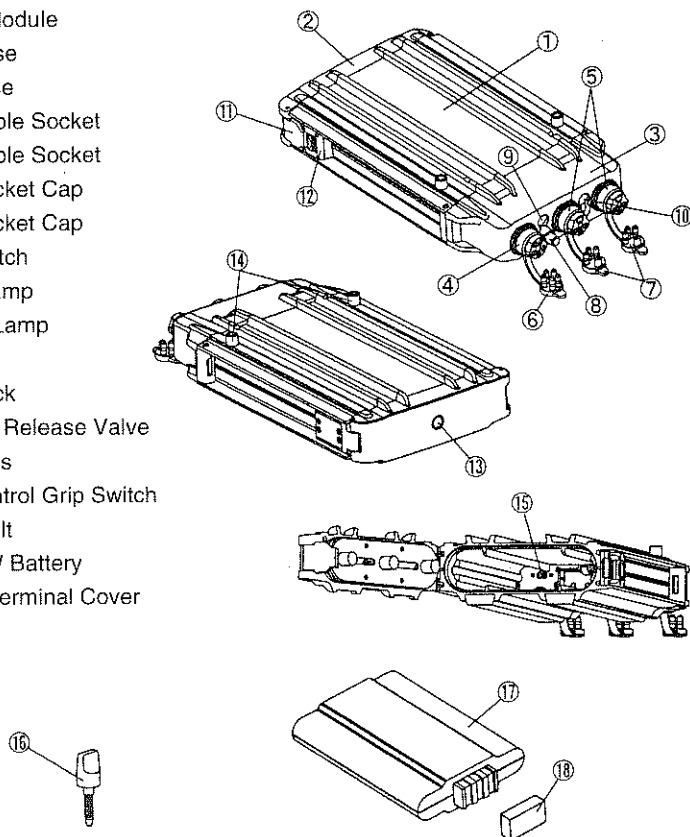


## ⚠ CAUTION!

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.

## BLX-55W Battery Identification of Parts

- ① Battery Module
- ② Front Case
- ③ Rear Case
- ④ 5-Pin Cable Socket
- ⑤ 3-Pin Cable Socket
- ⑥ 5-Pin Socket Cap
- ⑦ 3-Pin Socket Cap
- ⑧ Main Switch
- ⑨ Power Lamp
- ⑩ Breaker Lamp
- ⑪ Latch
- ⑫ Latch Lock
- ⑬ Pressure Release Valve
- ⑭ Index Pins
- ⑮ Light Control Grip Switch
- ⑯ Fixing Bolt
- ⑰ BLX-55W Battery
- ⑱ Battery Terminal Cover



## Opening and Closing the Battery Case

### ⟨Opening the Case⟩

● The front case must be opened for battery installation and replacement.

1. To open the front case, release the latch by sliding the latch lock in the direction indicated by the arrow in the Figure 1. Then lift the latch.

● Never attempt to open underwater.

● When opening the front case after use underwater, hold it level or with the front case facing down to prevent water or sand from penetrating the interior of the main unit.

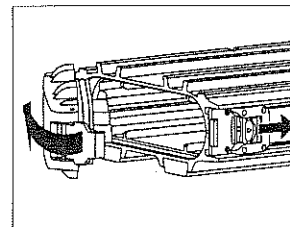


Figure 1

### ⚠ WARNING!

\* Open this product with extreme care. Internal pressure due to battery heat may cause the front case to open with unexpected force.

### ⟨Closing the Case⟩

1. Before closing the front case, make sure the O-ring is free of sand, lint, or other debris.

2. To lock the front case, press the latch down until you hear it click. (Figure 2)

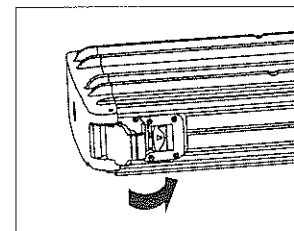


Figure 2

## Battery Installation and Removal

1. Remove the battery terminal cover from the battery. (Figure 3)

● Replace it after use or for storage.

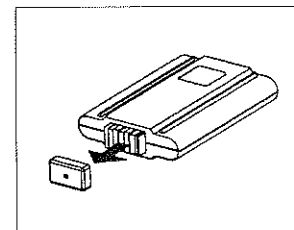


Figure 3

2. Open the front case and insert the battery as shown. (Figure 4)
- Make sure that the guide rails of the battery are facing down.

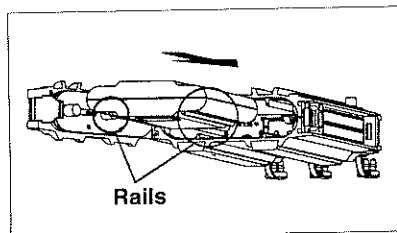


Figure 4

### ⚠ CAUTION!

- Do not drop the battery into the battery module, as shown in Figure 5. That may damage the battery.
- Remove the battery when not in use. Accidental activation of the power switch could cause fire.
- When opening the battery module, take care that the battery does not slide out onto the table or ground. This may damage the battery and cause personal injury.

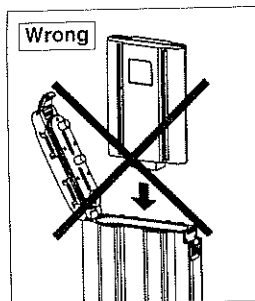


Figure 5

## Connections

1. Apply a small amount of silicone grease around the three holes in the cable socket. (Figure 6)

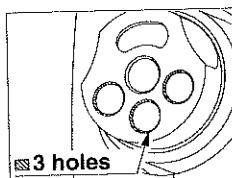


Figure 6

2. Apply a small amount of silicone grease to the three pins on the cable. (Figure 7)

- Do not lubricate the metal terminals on the tips of the pins. Silicone grease will impede function. Clean it off with a clean, lint-free cloth.

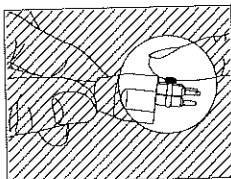


Figure 7

3. Align the markings or flat surfaces of the cable and socket and insert the plug into the socket. (Figure 8)

- The 3-Pin cable and socket have a flat D-shaped surface. The 5-Pin cable and 5-Pin socket each have a marking for proper alignment.

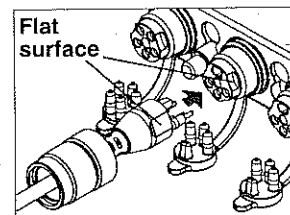


Figure 8

4. Secure the cable and socket with the coupler. (Figure 9)

### ⚠ CAUTION!

- If the coupler is loose, the light may not function due to connection failure. Make sure that the coupler is secure.

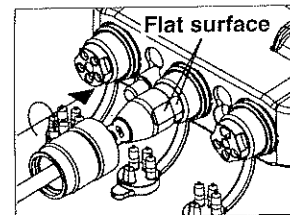


Figure 9

## Operating the Controls

1. To activate, press the main switch once. The power lamp (green) will confirm that power is on.
2. To turn power off, press the main switch again. The power lamp (green) will go off.

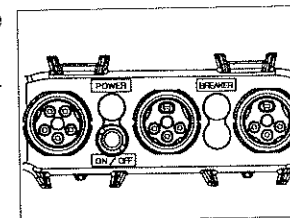


Figure 10

### ⚠ CAUTION!

- If you continue use after a flooding or with insufficient charge or excessive discharge, the BLX-55W battery may generate gas inside the battery module. When the internal pressure reaches a certain level, gas is released through the pressure release valve. Therefore, if bubbles come out of the valve during use, it indicates the presence of gas. In this case, please observe the following:
  - (1) Discontinue use and turn off power immediately.
  - (2) Ascend at a safe speed without forcing the bubbles to stop. (There may be some water flow from the release valve, but it is insignificant.)
  - (3) Contact a Sea & Sea service center for check-up and repair.

## Auto Shutoff Circuit

The BLX-55W auto shutoff circuit prevents excessive battery discharging. When the battery voltage decreases to a certain level, the power will automatically shut off, and the light will go off. This is a safety feature not a malfunction.

The auto shutoff circuit also prevents excessive current due to water leakage. When the cable is disconnected from the battery module or lamp head of the BLX-55W, the power will be automatically shut off. The power light (green) will go off; this is not a malfunction.

After the auto shutoff of power, the breaker lamp (red) turns on.

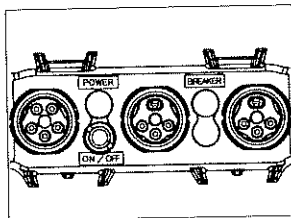


Figure 11

### Resetting the Power

- (1) Press the main switch to turn power off.
- (2) Press the main switch again to turn power on.
1. If the breaker lamp does not turn off after the above procedure, the battery may be exhausted or flooded. In this case, leave the power off and make a safe ascent.
2. When the power is shut off due to a disconnected cable, reconnect the cable before starting the above resetting procedure.

### CAUTION!

- When you use only one BLX-55W light, always seal the other cable socket with the appropriate 3-Pin or 5-Pin cap.
- If a cable socket is not sealed and protected, the auto shutoff function will automatically shut the unit off.

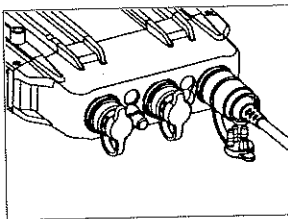


Figure 12

## Mounting to the VX-2000 Housing

1. Remove the four (4) rubber foot stoppers under the VX-2000PRO housing. (Figures 13)
2. Remove both rubber feet. (Figure 14)

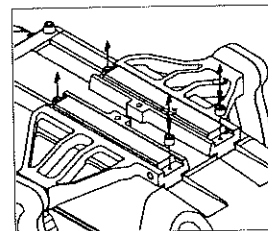


Figure 13

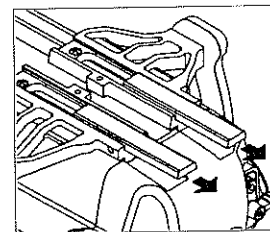


Figure 14

3. Insert the rails of the BLX-55W battery module into the channels for the rubber feet. Push the battery module forward until the index pins touch the bottom of the VX-2000PRO. (Figure 15)
4. Secure the battery module to the VX-2000PRO with the fixing bolts on both sides. (Figure 16)

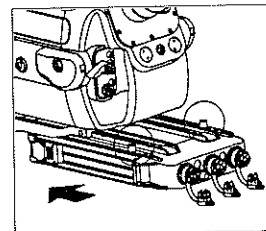


Figure 15

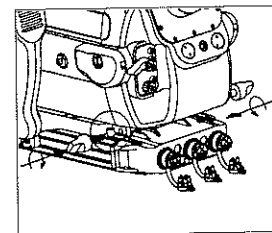


Figure 16

- The BLX-55W can only be mounted directly onto the VX-2000PRO housing. BLX-55W adapters enable attachment to other models.  
BLX-55W Adapter for VX-1000PRO (#35390), BLX-55W Adapter for VX-PC (#35430) or BLX-55W Adapter for SONY Marine Pack (#35400), enable attachment to the VX-1000PRO, VX-PC or SONY Marine Pack\*1 respectively. These adapters are sold separately.

\* 1: The SONY Marine Pack is compatible with TRV-7 or newer models.

## Battery Module

- This battery has a superior recycling feature that allows more than 300 times of recharging without significant loss of capacity. However, please observe the following instructions since the life of the battery may be significantly reduced by misuse.

### ⚠ CAUTION!

- Never short-circuit the battery terminals. Do not store or transport the battery with metal objects such as paper clips or hairpins.
- Be sure the battery terminal cover is in place during storage or transport.

### Ambient Temperature

- The optimum conditions for storage of this battery are a dry environment and normal room temperature (approximately 68°F/20°C). The life of the battery will be significantly diminished if stored in extremely low temperature, high temperature, or high humidity environments.

### Spontaneous Discharge

- This battery discharges when not in use. The loss of power is temporary and can be restored by recharging.
- Always fully recharge the battery before use. The battery may not be fully charged after the first charging cycle. Full power and performance will be restored upon repeated discharging and recharging.

### Battery Temperature Sensor

- This battery automatically shuts off power when its temperature rises to a certain level due to abnormal discharging, etc. If you find any abnormality with the battery, contact an authorized Sea & Sea dealer or service center.

### Recharging the Battery

- Use only the Sea & Sea Quick Charger manufactured for exclusive use with this battery. For recharging instructions, please refer to the instruction manual for the BLX-55W Quick Charger.

## 《Optional Accessory》

The Light Control Grip (#35320, sold separately) enables independent control of each (left or right) light and stepless fine-tuning of light intensity. (Figure 17)

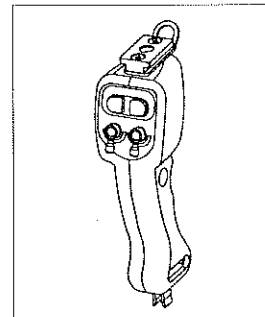


Figure 17

- This grip is exclusively for use with the BLX-55W lighting system.
- This grip cannot be used alone or with other lighting systems.
- Compatible housings: VX-2000PRO, VX-PC, SONY Marine Pack (Contact a Sea & Sea authorized dealer or service center for mounting to a SONY Marine Pack)
- Ask an authorized Sea & Sea dealer or service center for mounting to video housings (service provided with charge). If you attempt to mount it by yourself, Sea & Sea will not be responsible for product damage or personal injury.
- For details, read the instruction manual for the Light Control Grip.

## Using the Light Control Grip

- To use the Light Control Grip (#35320), you must turn on the switch inside the BLX-55W battery module.

### ⚠ CAUTION!

- The light control grip will not function if the switch is left in the OFF position.
- This switch is set at OFF when it leaves the Sea & Sea factory. You must activate it before use.

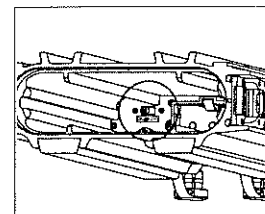


Figure 18

#35310

## BLX-55W Light

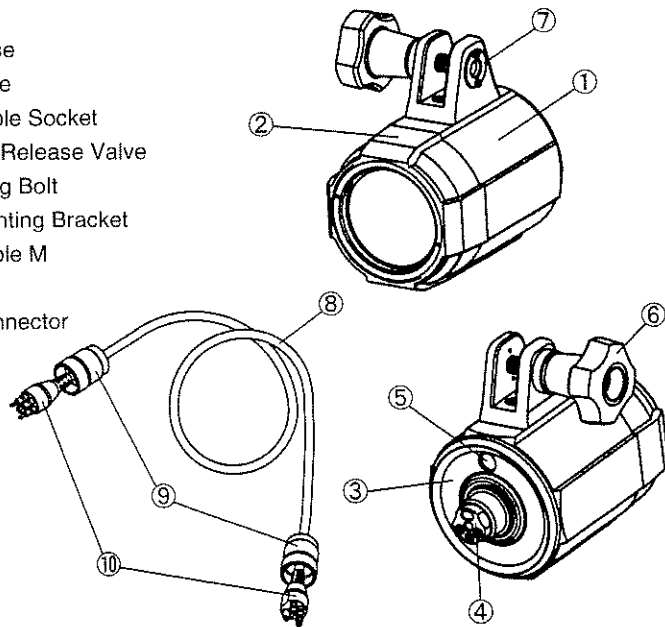
- The BLX-55W Light is operational exclusively with the BLX-55W battery module. The light cannot be used by itself or with other lighting systems.

### ⚠ CAUTION!

- The BLX-55W is for underwater use only. Do not turn on this light on land for more than 10 seconds.
- Always make sure that this light is securely mounted to an arm to prevent it from falling off, becoming lost, causing personal injury or equipment malfunction.

## Identification of Parts

- ① Body
- ② Front Case
- ③ Rear Case
- ④ 3-Pin Cable Socket
- ⑤ Pressure Release Valve
- ⑥ Arm Fixing Bolt
- ⑦ Arm Mounting Bracket
- ⑧ 3-Pin Cable M
- ⑨ Coupler
- ⑩ 3-Pin Connector



## Connections

1. Apply a small amount of silicone grease around the three holes of the cable socket. (See Page 7, Figure 6)
2. Apply a small amount of silicone grease to the three pins of the cable. (See Page 7, Figure 7)
- Do not apply the grease to the metal terminals on the tips of the pins. If contaminated, wipe it off with a soft cloth or paper towel.
3. Align the flat surfaces of the 3-pin connector cable and socket and insert the cable into the socket. (Figure 19)

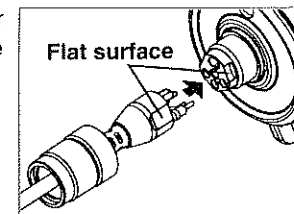


Figure 19

4. Fix the cable and socket firmly with the coupler. (Figure 20)

### ⚠ CAUTION!

- If the coupler is loose, the light may not function due to connection failure. Make sure that the coupler is tightened.

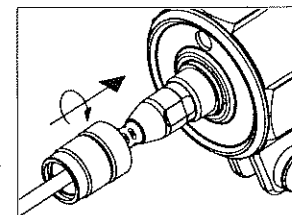


Figure 20

## Mounting to an Arm

- The light can be mounted to various Sea & Sea arms.
- 1. Align the hole in the sea arm with the holes on the arm mounting bracket.
- 2. Insert the arm fixing bolt and turn till it holds the light securely to the arm.
- Loosen the fixing bolt to change the angle of the lamp head. After adjusting the angle, be sure to tighten the bolt.



## Changing the Light Bulb

### ⚠ CAUTION!

- After use, wait 30 minutes or more to allow the bulb to cool.
- Be careful when opening the case. Internal pressure due to heat from the bulb may cause the case to open with unexpected force.
- Do not touch the reflector on a new bulb. If you have accidentally touched it, clean with a soft cloth and alcohol.

1. Open the front case by rotating it counterclockwise as shown.
2. Gently pull out the bulb and reflector.
3. Insert a new bulb.
4. Close the front case by rotating it clockwise. Make sure the body and front case are aligned.

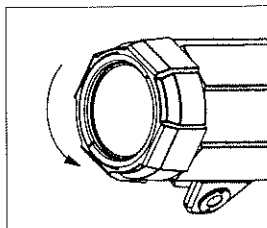


Figure 21

## Maintenance and Storage

1. After use, soak in fresh water and then rinse with tap water. Make certain the front case is securely closed.
  - \* Rinse with 3P/5P connectors exposed (cap removed).
  - \* Do not allow salt water to dry. Salt will crystallize and will be difficult to remove. It can cause flooding.
2. After rinsing, wipe with a soft cloth and allow it to air dry in the shade.
  - \* Do not use a hair dryer; the heat may cause warping or damage to the plastic parts.
3. Lubricate the O-rings before storing. O-rings should be replaced with a new one at least once a year.
4. Avoid extremely high or low temperature, high humidity or direct sunlight when storing this product for an extended period.
5. Never use petroleum solvents such as alcohol to clean this product, since such products might mar or otherwise damage the product finish.
6. We recommend servicing after two years from purchase.

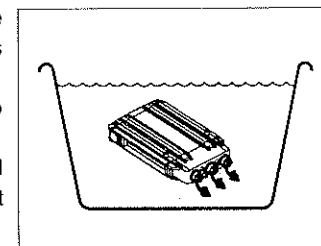


Figure 22

## Notice



This "Pressure Test Passed" sticker confirms that this product has met Sea & Sea pressure test standards.

## Specifications

### ● BLX-55W Battery Module (#35410)

Power source:	Exclusive 13.2V 3700mAh rechargeable Ni-MH battery
Continuous burn time (full charge):	Approx. 50 minutes (1 light at full light level) Approx. 30 minutes (2 lights at full light level)
Depth rating:	75m/250 feet
Weight:	470g/1.0 lbs (excluding battery and cables)
Dimensions:	270 x 150 x 51mm/10.6 x 5.9 x 2.0 inches (H x W x D)
Weight (u/w):	Approx. 700g/1.5 lbs (excluding cables)

### ● BLX-55W Light (#35310)

Light bulb:	55W high color-temperature halogen bulb
Color temperature:	4700°K
Beam angle:	Approx. 60°
Bulb life:	Approx. 300 hours
Depth rating:	75m/250 feet
Weight:	470g/1.0 lbs (excluding battery and cables)
Dimensions:	106 x 110 x 72mm/4.2 x 4.3 x 2.8 inches (H x W x D)
Weight (u/w):	Approx. 60g/0.13 lbs (excluding cables)

### ● BLX-55W Battery (#35370)

Capacity:	13.2V 3700mAh rechargeable Ni-MH battery
Recharging time:	Approx. 3 hours (with exclusive charger)
Accessories:	BLX-55W light, arm fixing bolt, 3-pin cable M, BLX-55W battery, BLX-55W charger, AC adapter, 2x index pins, battery terminal cover, O-ring, O-ring remover, silicone grease, instruction manual

Optional Accessories: Light control grip (#35320), BLX-55W light (#35310), 3-pin cable S (#35350), spare bulb (#35230), O-ring, adapter for BLX-55W & VX-1000PRO (#35390), adapter for BLX-55W & VX-PC (#35340), adapter for BLX-55W & SONY Marine Pack (#35400)

\* Specifications are subject to change without notice.