

50108 TTL CONVERTER II for Nikon

Instruction Manual

Thank you for your purchase of a SEA&SEA product. For proper operation of the product and safe handling, please read the following instructions carefully before use. This manual should be retained for future reference.

Safety Precautions

* Failure to heed the precautions listed below could result in serious consequences. To prevent injury or damage to yourself and/or others, please observe the precautions as they contain highly important information related to personal and product safety.

DANGER: Situations that involve a high risk of severe injury or death.

MARNING: Situations that could result in severe injury or death.

riangle CAUTION: Situations that could result in property damage or personal injury.

1 DANGER

- Never attempt to disassemble, repair or alter the product yourself to prevent significant electrical hazard due to the high-voltage circuitry in the product. Do not heat the product or put it into a fire, this could result in explosion or fire. Unauthorized disassembling and/or modification could result in malfunction or flooding, and avoid product warranty. Take the product to a SEA&SEA authorized service center for repair or inspection.
- Never short-circuit the terminals of batteries installed in the product, as it could result in battery leakage, heat generation, fire, explosion, or product malfunction.
- Move leaking batteries away from fire or open flames immediately. The leaked fluid and its vapor are combustible.
- If the battery leakage contacts your skin or clothing, flush the affected area repeatedly with clean water. It may irritate your skin. Should it get into your eyes, immediately rinse them with plenty of water, avoid rubbing and seek medical advice.

MARNING

- Pay particular attention to opening the battery cap to avoid injury. Heat from the batteries may cause pressure buildup inside the battery compartment, and could result in cap explosion with unexpected force.
- Avoid water or foreign objects inside the product. Discontinue use and turn it off immediately should you notice flooding or leakage. Continuous use could result in complete damage to the product.
- Do not use the product in the presence of flammable gas, as this could result in explosion or fire.
- Keep out of reach of children to prevent accidental ingestion. If swallowed, seek medical advice immediately.

A CAUTION

- Read the instruction manual and observe proper precautions before use of the product.
- Should you notice smoke or an unusual smell coming from the product, turn it off and remove the batteries immediately, taking care to avoid burns. Continued operation could result in injury. After removing the battery, take the product to a SEA&SEA authorized service center for inspection.
- Discontinue use and turn the product off immediately should you notice flooding or leakage.
- When the product is flooding, interior pressure may build up. Please be careful when opening the product as water may spurt out or the cap may open explosively and cause injuries.
- Do not open the chassis or connector cap in the vicinity of open flames.
- The product has been constructed with an airtight seal. When packing the product for airplane travel, do not seal-up the product to alleviate pressure build up due to atmospheric changes.
- Do not open the product in a wet or sandy environment. Protect the interior from moisture and debris in order to prevent malfunction or flooding.
- Avoid strong shocks/impacts or excess stress to prevent malfunction, damage or breakdown. Make sure that the product has been securely mounted to other products in order to prevent injury, fall or missing.
- Do not carry the camera or housing by holding the accessories such as arm, cable, strobe, etc. Heavy components may fall and cause damage or injury.
- Do not rest heavy weight on the product. It might deform the outer casing, damage internal parts, make the waterproofing fail, or result in fire or electric shock.
- Rinse the product with fresh water, after underwater use. Ensure that the product is waterproofed before rinsing. Refer to [Maintenance and Storage] for details.
- Never use chemicals, cosmetics, any petroleum solvents such as paint thinner, or neutral detergent on the product. They may deform and damage the product.
- Do not leave the product in places with hot temperatures such as inside of a car or in a car trunk in summer. The heat may deform plastic parts of the product, damaging internal parts and resulting in potential fire or electric shock. If the product is sealed tight in hot conditions, heated air expanding inside the product may deform the casing and ruin the waterproofing.
- Do not store the product in wet or high humidity place, to avoid mold, rust, corrosion or malfunction.
- Do not store the product with naphthalene or camphor mothballs, or in locations such as a laboratory where chemicals are used. This environment can cause mold, rust, corrosion or malfunction.
- SEA&SEA assumes no liability for compensation of loss of captured images or expenses caused by loss of images, even if you are unable to shoot due to a product defect or malfunction.
- SEA&SEA will not be responsible for the replacement or compensation for cameras, lenses or those accessories damaged due to your invalid operation.
- Carefully observe the O-ring maintenance manual for the handling of O-rings before use.
- SEA&SEA assumes no liability for errors or discrepancies in this manual.
- Specifications and appearance are subject to change without notice.

《Safety Precautions for Use of Battery》

⚠ DANGER

- Never expose the battery to flame or fire, or to excessive heat.
- Never attempt to disassemble, alter or directly solder the battery. There are no user-serviceable parts. Tampering with battery may expose you to dangerous voltage, battery acid, or electrical shock.
- Never short-circuit the terminals of a battery, as it could result in battery leakage, heat generation, fire, or explosion. Avoid contact with all metal objects during transporting and storage.
- Move leaking batteries away from fire or open flames immediately. The leaked fluid and its vapor are combustible.
- If the battery leakage contacts your skin or clothing, flush the affected area repeatedly with clean water. It may irritate your skin. Should it get into your eyes, immediately rinse them with plenty of water, avoid rubbing and seek medical advice.
- Never attempt to insert the battery upside down or backward, as it could result in battery leakage or explosion. Always confirm the direction of plus and minus before installation.
- Never connect a battery directly to a plug outlet or car cigarette lighter.

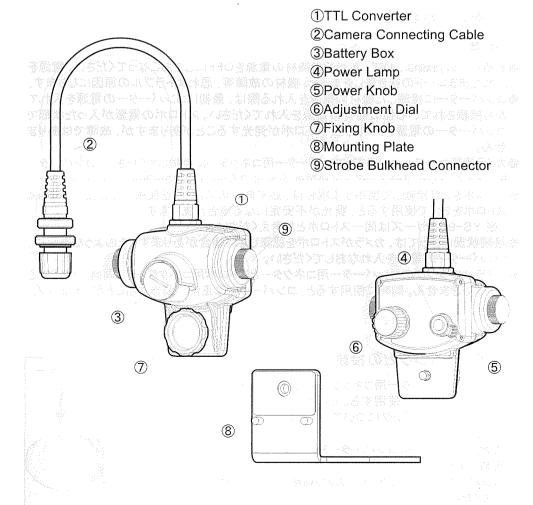
MARNING

- Keep dry. The battery is not waterproof, and may malfunction if immersed in water or exposed to high levels of humidity. Rusting of the internal mechanism can cause irreparable damage.
- Do not remove and/or damage the case of a battery. It may cause battery leakage, over-heating or explosion.
- Never use batteries should you notice any changes such as leakage, discoloration or deformation. When you notice the situation as abnormal, discontinue use immediately and take the product to a SEA&SEA authorized service center for inspection.
- Keep out of reach of children to prevent accidental ingestion. If swallowed, seek medical advice immediately.
- Do not leave or use batteries in an extreme hot environment. This may cause battery leakage, overheating or battery performance deterioration.

A CAUTION

- Avoid strong shocks/impacts or excess stress to batteries.
- Turn the equipment off after use. Remove batteries from the equipment when not in use.

Identification of Parts



Operating Instruction

《Inserting Battery》

⚠ CAUTION

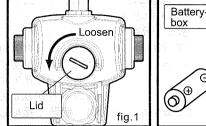
Before installing or replacing battery, wipe all moisture off the product and make sure your hands are dry.

The TTL Converter is powered by a CR-2 lithium battery.

1. Release and remove the lid by turning it counterclockwise. (fig.1)

2. Put the battery into the battery box in the correct orientation: observe the + and signs (polarity) on the battery box and match the battery's polarities to the signs. (fig.2)

3. Make sure that the lid surface that contacts the O-ring is undamaged and has no grit or debris on it. Make sure that the O-ring is also undamaged and free of grift or debris. Apply a small amount of silicone grease to the O-ring.



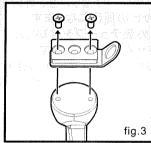
* Refer to the "O-ring maintenance manual" for details.

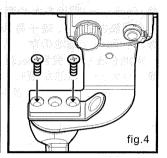
4. Firmly turn the lid clock wise until it stops.

《How to attach to camera housing》

This product can be mounted to a SEA&SEA grip.

- 1. Remove two screws (short screw × 2) on the left grip of housing to disassemble each part. (fig.3)
- 2. Attach supplied screws (long screw × 2) as shown in the figure. (fig.4)





《Handling the Sync Cord》

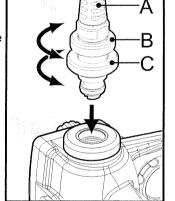
⚠ CAUTION

- Do not touch the connector's contact pins with fingers or contaminate the pins with silicone grease. If contaminated, clean with alcohol.
- When the sync cord is detached from the strobe or converter, be sure to cover both connector ends with the sync cord connector caps.
- When rinsing the sync cord after use, if the sync cord has been detached from the strobe and/or converter, be sure both ends of the conector are protected with their plastic caps
- When detaching the sync cord from the converter, always hold the converter with the bulkhead connector facing downward to prevent any water trapped between the sync cord connector and bulkhead connector from penetrating the bulkhead connector.

How to connect the Sync Cord

- 1. Remove the bulkhead connector cap. Inspect the contact pins for corrosion and debris. Clean, if necessary.
- 2. Inspect the O-ring on the sync cord connector for dust and debris. Clean or replace if necessary. Then lubricate the O-ring with a thin coating of silicone grease and replace to its channel.
- 3. Align the index mark on the sync cord connector with the mark on bulkhead connector. Insert connector as shown. Turn part "B" until the connector is firmly fixed.
- 4. Turn part "C" until the connector is looked into place.

Reverse the procedure. Loosen part "C", then part "B", and pull part "A" straight out.



《How to connect equipment》

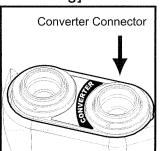
⚠ CAUTION

- Before connecting product to other equipment, make sure to turn off all equipment. Plugging in/out the code while equipment is ON will cause damage or trouble.
- When in turning on the equipment connected to the TTL converter, make sure to turn on the converter first, then turn on other equipment. Sometimes strobe connected to the converter fires when the power of the TTL converter cycled. This is not malfunction of the converter nor the strobe. TTL converter works properly after the firing of the strobe.
- Ensure to connect the camera connecting cable to the converter connector. Connecting the cable to other connectors will cause damage on the connector.
- Ensure to use the same type of strobes when using two strobes together. Using two of the different strobes will generate unbalanced light.
 - * As for YS-90 series, all strobes are the same type.
- Camera may not recognize the strobe depending on the condition. In such situation, turn off and on the power of the converter.
- Converter connector and Strobe connector on the housing cannot be used at the same time. When used together, the TTL converter will malfunction.

[How to connect the Sync Cord with Camera Housing]

Product can be connected to camera housing equipped with converter connector. Refer to the compatibility list for compatible housings.

- 1. Remove the connector cap of the converter connector on camera housing.
- 2. Plug in the camera connecting cable to the converter connector.



[How to connect the Sync Cord with Strobe]

Product is equipped with two Strobe Bulkhead Connectors. Product can be used with either one or two strobes. Refer to the compatibility list for compatible strobes.

- 1. Remove the Strobe Bulkhead Connector cap on product.
- 2. Connect the strobe Sync Cord to Strobe Bulkhead Connector on product.

《Operation of Each Area》

[Power Knob]

Turn the switch clockwise to turn on power, counterclockwise to turn off power.

Green light will flash when tuning on power, and converter will activate.

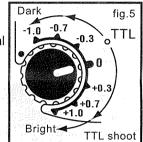
Power lamp will flash in red when the battery is running low. Change the battery when the power lamp flashes in red.

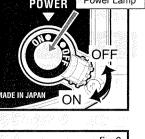
Leave the power off when not in use.

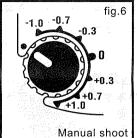
[Adjustment Dial]

Switch over TTL shoot and manual

Adjust the light during TTL shoot.







«Taking photographs»

Refer to the strobe instruction manual for proper usage of strobes.

[TTL Converter for TTL shoot]

Turn on the converter and turn the adjustment dial to TTL.(fig.5)

* For normal use, keep it at 0.

Set the switch for strobe for TTL shoot.

[TTL Converter for Manual shoot]

Turn on the converter and position the adjustment dial to manual.(fig.6) Set the switch for strobe to manual shoot.



This device complies with Part15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, (2) this device must accept any interference received, including interference that cause undesired operation.

Maintenance and Storage

- Never use chemicals, cosmetics, any petroleum solvents such as paint thinner, or neutral detergent on the product. They may deform and damage the product.
- After each use in salt water, make sure it's watertight, then soak it sufficiently in fresh water.
- Insufficient soaking causes damage by salt to the product. Salty residue may be left on the product where it will crystallize as it evaporates. Crystallized salt is hard to dissolve and difficult to be removed once formed, and it will result in water leakage.
- After rinsing, dry the product well with a soft dry cloth, then let the product dry in the shade, out of direct sunlight.
- Do not dry the product by heating (using a hair dryer, for example). Heating can deform and damage the product.
- If you will not use the product for an extended period of time, store it away from high temperatures, high humidity, direct sunlight, or extreme cold.
- Do not store the product with naphthalene or camphor mothballs, or in locations such as a laboratory where chemicals are used. This environment can cause mold, rust, corrosion or malfunction.
- After using the product, maintain the O-rings before storing. Examine the O-rings before and after each dive. We recommend early exchange of the O-rings, at least
- Every two years we recommend a complete overhaul of O-rings regardless of the frequency in use, for the best performance of the product.
- When storing this product for a long period of time, remove the battery.

About the PASSED Label



The Pressure Test Passed label on a product indicates that the product has passed the SEA&SEA pressure test and is waterproof at depth.

Specifications

[Power] [Battery life] [Depth rating] [Construction]

[Weight] *2

[Dimensions]

[Accessories]

Lithium battery CR-2 Over approx. 2000 times

60m / 200ft

Case: Polycarbonate, Fixing Knob: ABS resin Mounting Plate: Corrosion-resistant aluminium alloy

Approx. 420g / 14.8oz

(Approx. 200g / 7.1oz underwater) 95x85x75mm / 3.8x3.4x3.0inch (WxHxD)

Mounting Plate, Screw × 2, Lithium Battery CR-2, Silicone grease, O-ring maintenance manual [Accessories sold separately] O-ring set for TTL Converter (#62126)

- * 1: Number of flashies of connecting strobe. (Differs depending on use conditions.)
 * 2: Including Battery and Mounting Plate.
- X Specifications and appearance are subject to change without notice.

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