

SEA&SEA

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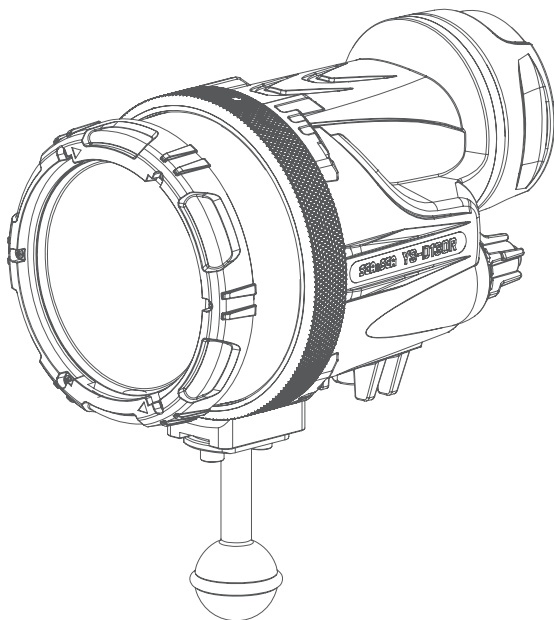
UNDERWATER STROBE



YS-D130R

Rev.1.11

ENGLISH



Instruction Manual

Introduction

Thank you very much for purchasing a SEA&SEA product. Before use, please read this instruction manual thoroughly and ensure you fully understand its contents before operating the product correctly. After reading, be sure to store it in a place where it can be easily accessed at any time.

Information

This product has passed testing based on SEA&SEA pressure testing standards.

This product may exhibit slight variations in color or visible weld lines on its surface. However, these do not affect the product's quality or performance, so please use it with confidence.


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Safety Precautions

This product is a strobe designed exclusively for underwater use. Please refrain from firing it on land except when confirming settings.

The precautions listed here contain important information to prevent harm or damage to people or products. Please understand the contents thoroughly before using the product correctly and safely.

 **Danger** Improper handling is likely to result in death or serious injury.

 **Warning** Improper handling may result in death or serious injury.

 **Caution** Improper handling may result in injury and property damage. It may also compromise the product's quality and reliability.

Danger

- Do not disassemble, modify (including soldering), heat, or throw this product into fire. Doing so may cause fire, electric shock, ignition, or smoke. We cannot guarantee products that have been disassembled or modified against water damage, breakage, or malfunction. For repairs or internal inspections, please consult the retailer where you purchased the product.

Warning

- Do not use batteries other than those specified. Using non-specified batteries may cause gas buildup and result in explosion.
- Always remove batteries when storing or transporting this product. Storing or transporting it with batteries installed may cause the power to turn on unintentionally, leading to fire.
- When opening the main unit case or battery cap, do not point it toward people. If the interior becomes pressurized due to battery heating, the case or battery cap may fly off forcefully, causing injury.
- Do not allow water or foreign objects to enter the interior of this product. This may cause fire or electric shock. Although this product has a waterproof structure, if water enters the interior for any reason, immediately turn off the power and discontinue use.
- Do not touch batteries with wet hands. This can cause electric shock.
- Do not use in locations where flammable or explosive gases may be present in the atmosphere. This can cause ignition or explosion.
- Do not activate strobes or lights while their light-emitting parts are facing down on surfaces like floors or tables. This can cause overheating and fire.
- Do not touch the light-emitting parts of strobes or lights immediately after they have flashed. This can cause burns.
- Do not use strobes directed at drivers inside vehicles. Strobes can cause temporary blindness, impair driving ability, and lead to accidents.

- Keep this product out of reach of infants and young children. There is a risk of accidentally swallowing accessories or small parts. If swallowed, seek immediate medical attention.

Caution

- Before use, be sure to carefully read the instruction manual (this document) for this product.
- This product is waterproof to a depth of 100 meters. Using it underwater at depths exceeding 100 meters may cause water ingress or malfunction. Please be cautious.
- If smoke appears, or if you notice unusual sounds or odors, immediately stop using the product and consult the retailer where you purchased it.
- If water enters the product, immediately turn off the power and stop using it.
- When water is present, internal pressure may be elevated. Be aware that water may spray out or the battery cap may pop open when opening it. This could cause injury.
- Open and close the battery cap in an area free from open flames.
- This product has an airtight structure. Transporting it in a sealed state, such as on an aircraft, may cause pressure differences between the inside and outside. Remove the battery cap before transport.
- Do not open or close this product in areas subject to water splashes, high humidity, or locations prone to sand accumulation like beaches. Water droplets or immersion may cause malfunction.
- Note that the product may not function properly in areas with strong magnetic fields.
- When using this product on an airplane or in a hospital, follow the airline or hospital's instructions. Electromagnetic waves emitted by this product may interfere with instruments.
- Do not use this product while covered by a blanket or similar item. Heat buildup may cause deformation of the unit or lead to fire.
- Do not use the strobe or light close to a person's eyes (especially infants). Flashes near the eyes may cause vision impairment. When photographing infants, maintain a distance of at least 1 meter.
- Avoid prolonged contact with the product during use. It may become very hot, and extended skin contact could cause low-temperature burns.
- Do not subject this product to strong impacts, such as dropping it, swinging it around, jumping into the sea from a boat while holding the equipment, or throwing the equipment into the sea. This can cause unexpected injury, damage, or malfunction.
- Secure the strobe firmly and take care to prevent it from falling or getting lost. Also, do not bend it excessively or apply unnecessary force. This can cause unexpected injury, damage, or malfunction.

- Do not lift or carry the housing by holding this product or attached accessories. This may cause unexpected injury or malfunction due to dropping or damage. When transporting, hold the housing body or grip.
- Do not place heavy objects on top of this product or stand on it. Weight may deform the body and damage internal components, posing a risk of fire, electric shock, or malfunction. It may also cause water ingress.
- After use, always wash the product with fresh water while it is waterproofed (see “Care and Storage Precautions” on J-26 for details).
- When washing after disconnecting sync cords, always close the product's connector cap and wash it while waterproofed.
- Never use chemicals, cosmetics, petroleum-based solvents like thinner, or neutral kitchen detergents, as they may cause deformation or damage.
- Do not leave the product in high-temperature areas. Especially avoid leaving it in direct sunlight, inside a car during summer, or in a car trunk, as these locations become extremely hot. This product contains plastic components. Heat can cause deformation and damage to internal parts, posing risks of fire, electric shock, or malfunction. Furthermore, leaving the product sealed in a high-temperature environment can cause internal pressure to rise, leading to deformation or warping of the main unit. This may result in water ingress or condensation.
- Do not store this product in wet or humid locations. This can cause mold, rust, corrosion, or malfunction.
- Do not store in areas containing naphthalene or camphor, or in locations handling chemicals like laboratories. This may cause mold, rust, corrosion, or malfunction.
- If the product will not be used for an extended period, insert batteries and perform a test flash approximately once a month to prevent deterioration of internal electronic components. Operate all controls as if performing an actual shoot. Afterward, confirm the READY/TTL lamp is lit, turn the power OFF, and remove the batteries.
- Please understand that we cannot compensate for lost footage or related expenses incurred due to any malfunction of this product.
- We cannot replace or compensate for damage to the camera, lens, or other accessories caused by user negligence during operation of this product.
- For O-ring maintenance, refer to the “O-Ring Maintenance Manual”.
- We cannot be held liable for any errors in the contents of this manual.
- Specifications and appearance are subject to change without notice. Please be aware of this in advance.
- The silicone grease included with this product is not edible.

Important Battery Usage Information

Danger

Do not misuse the battery.

Leaks, overheating, ignition, rupture, or accidental ingestion may cause fires, burns, or injuries.

- Do not drop into fire or heat in a microwave, hot plate, or high-pressure container.
- Do not place on or near an induction cooker.
- Do not connect terminals with metal.
- Do not carry or store batteries together with metal items like necklaces, hairpins, or keys.
- Do not use or leave in high-temperature locations.
 - | Avoid direct sunlight, hot vehicle interiors, or near stoves.
- Do not solder directly, deform, modify, or disassemble the battery.
 - | This can destroy the terminal safety valve and cause contents to scatter, posing a danger.
- Do not connect directly to power outlets, car cigarette lighter sockets, or similar outlets.
- If battery fluid gets in your eyes, do not rub them. Immediately rinse thoroughly with clean water such as tap water, then seek medical attention immediately. Risk of blindness.
- If the battery becomes stuck in the camera or flash unit, do not attempt to force it out. Contact the retailer where you purchased the product or our customer service department. Damaging the battery casing (e.g., scratches) may cause overheating or rupture.
- If a Li-ion battery becomes submerged in water, there is a risk of fire. As a safety measure, place it in tap water stored in a metal bucket and leave it for 24 to 48 hours.

Do not misuse the USB-AC adapter/charger.

Fire, explosion, ignition, smoke, overheating, electric shock, burns, or malfunction may occur.

If you notice any abnormalities with the USB-AC adapter/charger, such as excessive heat, unusual odors or noises, or smoke, immediately unplug the power cord from the outlet, stop using it, and contact the retailer where you purchased it or our customer support.

- Do not get the USB-AC adapter/charger wet, or touch or hold it while wet or with wet hands.
- Do not use the USB-AC adapter/charger while covered with cloth or other materials.
- Do not disassemble or modify the USB-AC adapter/charger.
- Use the USB-AC adapter/charger only with the specified power source and voltage.
- Use only the dedicated lithium-ion battery and charger manufactured by our company.
 - | Heating or deformation may cause fire or electric shock. It may also cause malfunction of the camera, flash unit, or power source, or lead to unexpected accidents. Please understand that we cannot compensate for any damage caused by using non-dedicated products.
- Do not touch the USB-AC adapter/charger while it is powered on or the battery while it is charging for extended periods.
 - | The USB-AC adapter/charger while powered on and the battery while charging become hot. Prolonged skin contact may cause low-temperature burns.

Warning

Handling of Batteries

- Do not get wet with liquids such as water or seawater.
- Do not touch or hold with wet hands.
 - | This may cause overheating, rupture, fire, electric shock, or malfunction.
- If charging does not complete even after the specified charging time, stop charging.
 - | This may cause fire, rupture, ignition, or overheating.
- Do not use batteries with damaged or scratched casings, and avoid scratching them.
 - | This may cause rupture, overheating, or ignition.
- Do not forcefully install swollen batteries into devices.
 - | This may cause overheating, rupture, or fire.
- Do not subject batteries to strong impacts from drops or blows, and do not throw them.
 - | This may cause rupture, overheating, or fire.
- Do not force connections to USB-AC adapters/chargers or devices.
 - | Reverse polarity (connecting positive and negative terminals incorrectly) causes the battery to charge backwards, triggering abnormal internal reactions that can lead to leakage, overheating, rupture, or ignition.
- Do not place inside microwave ovens or high-pressure containers.
 - | Sudden heating or compromised sealing can cause overheating, rupture, or ignition.
- Do not place on or near induction cookers.
 - | Sudden heating may cause overheating, rupture, or fire.
- Do not place or cover with flammable materials during charging or discharging.
 - | This may cause overheating, rupture, or fire.
- Do not deform the battery compartment of cameras or strobes, or insert foreign objects
- If leakage, unusual odors, discoloration, deformation, or other abnormalities occur, stop using the battery immediately and move it away from open flames.
 - | This can cause fire or electric shock.
 - | Contact the retailer where you purchased the product or our customer support.
- If battery fluid comes into contact with skin or clothing, it may cause skin damage. Immediately rinse thoroughly with clean water such as tap water.
- Do not use lithium-ion batteries in low-temperature environments, as they may overheat, ignite, or explode.
- Batteries may be hot immediately after use. Exercise caution to avoid burns when removing them. We recommend waiting at least 5 minutes after use before removal.
- If not using the device for an extended period, remove the battery for storage.
 - | Leakage or gas buildup may cause harm to people or result in fire.

Important Notes on Handling O-Rings

This product maintains water resistance through an O-ring. To ensure the O-ring functions properly, please observe the following precautions. Improper handling may cause water ingress.

Caution

- Our products use blue O-rings. These O-rings are specially processed to trap silicone oil inside. The silicone oil gradually seeps out from within, maintaining lubrication for an extended period.
- For maintaining these O-rings, always use our genuine silicone grease (O-RING GREASE for blue O-rings: with blue lettering and cap). Using silicone grease from other manufacturers or our silicone grease with black lettering will cause the blue O-ring to absorb the applied grease due to its special properties. This will result in the grease running out. Once this occurs, the O-ring cannot be restored to its original state and must be replaced.
- When the grease is depleted, the O-ring will not slide smoothly, making the waterproof section difficult to open and close. This can prevent opening/closing or cause water ingress, so avoid using the product with depleted grease.

Are there any scratches or cracks on the O-ring?

Check for scratches or cracks. If any are found, replace immediately with a new O-ring. When handling O-rings, avoid using sharp metal objects as they may cause damage.

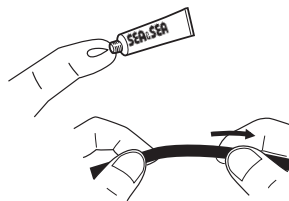
Please be careful of debris, sand, and hair.

Ensure that no debris, sand, hair, or other particles are present on the O-ring, O-ring groove, or O-ring contact surface. If any are present, remove them completely. Using the product with such particles present may cause water ingress.

Apply silicone grease.

Silicone grease reduces friction on O-rings. After confirming the O-ring is free of scratches, debris, or dust, apply a thin layer of silicone grease to the entire O-ring using your fingertip. Applying too much grease makes it easier for debris or dust to adhere, which can cause water ingress.

When installing, insert the O-ring carefully to prevent twisting.



Please remove and inspect the O-ring each time.

Before each setup, it is standard practice to remove the O-ring and inspect the O-ring, its groove, and the contact surfaces. Failure to remove the O-ring prevents detection of sand or debris lodged deep within the O-ring groove. We strongly recommend performing pre-use maintenance with the O-ring removed.

Please take care with storage methods.

When storing spare O-rings or removed O-rings, keep them in a cool place away from direct sunlight. Also, when storing them, do not place heavy objects on the O-rings or bend them.

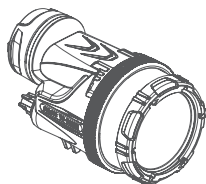
The O-ring has a service life of one year.

The service life of O-rings is generally one year, though this may vary depending on maintenance, usage frequency, and storage conditions. We recommend inspecting them before use and replacing them promptly.

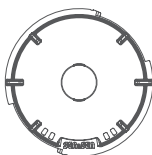
Check the Included Items

Before using this product, please verify that all included items are present.

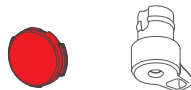
YS-D130R



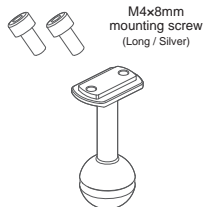
Diffuser



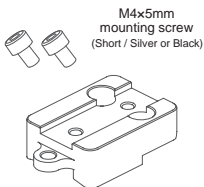
Red Filter



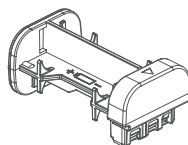
Strobe Ball Base



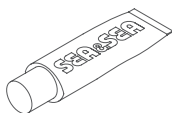
Base Block and Screw



Battery Holder



Silicone Grease



Rubber Cap for Fiber Optic Socket

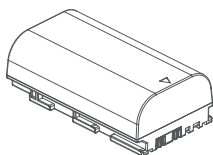


Hex Wrench



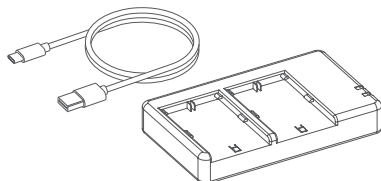
SB-L02 Li-ion Battery

PRO

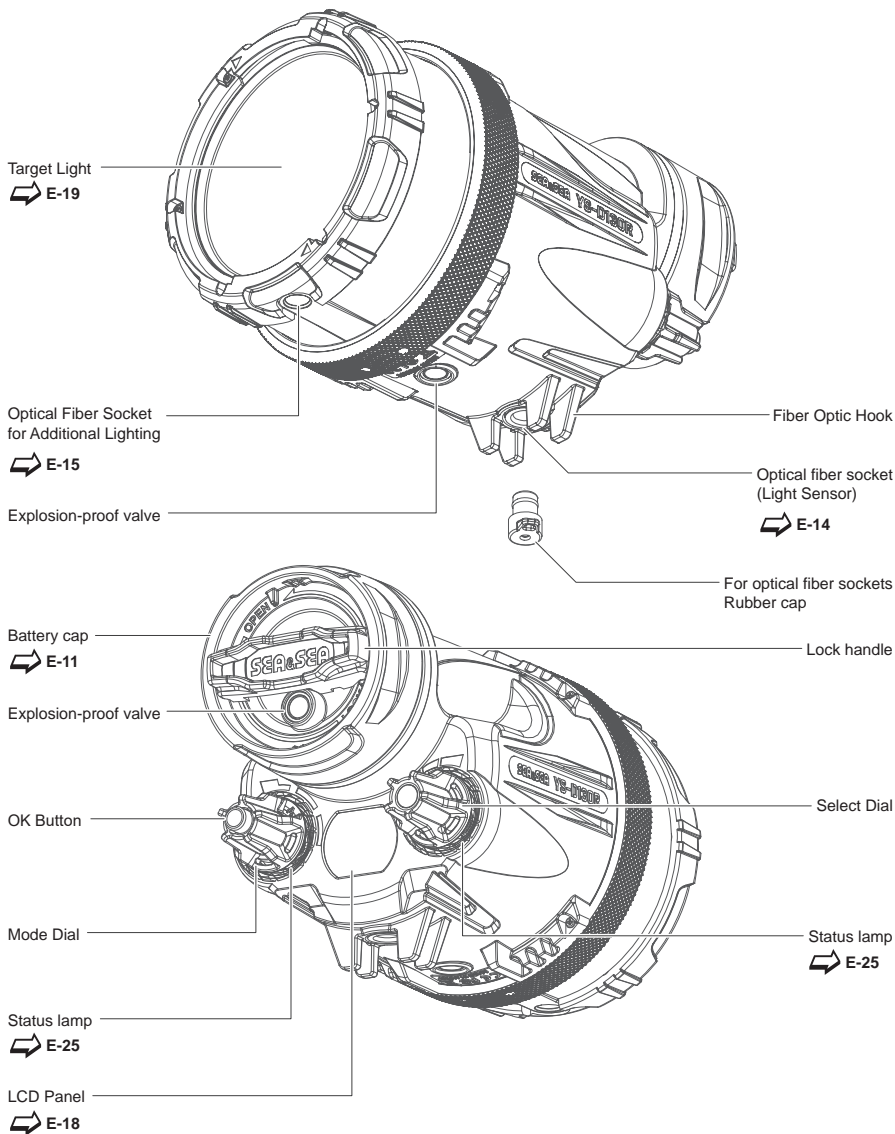


SC-L01D Dual USB Charger

PRO



Names of Parts



Preparing for the Shoot

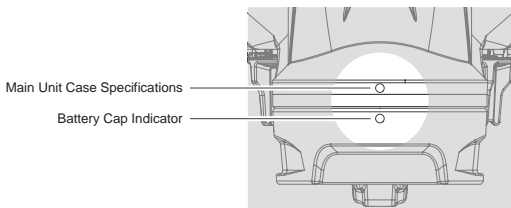
Removing and Replacing the Battery Cap

Ensure the mode dial is set to [Power Off].

Turn the lock handle toward the [OPEN] direction until you hear a click to unlock it, then pull the battery cap straight out to remove it.

When unlocked, the lock handle will be in the vertical position.

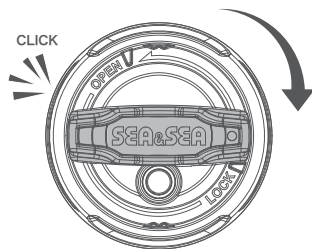
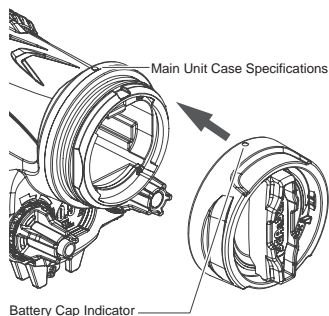
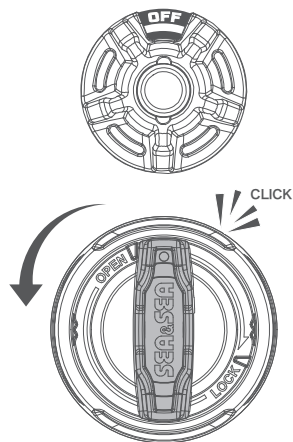
After loading or removing the battery, align the indicators on the main unit case and battery cap, then push it straight in all the way.



Rotate the lock handle toward the [LOCK] position until you hear a click.

When locked, the lock handle should be in a horizontal position.

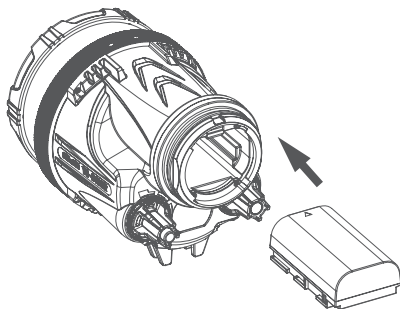
Ensure there is no gap between the main case and the battery cap, and confirm that it is securely fastened.



Battery Installation (SB-L02 Li-ion Battery)

Remove the battery cap and insert the fully charged SB-L02 Li-ion battery straight in the direction indicated by ▲.

Ensure it clicks into place and is securely locked by the tabs.



➡ E-11 See “Battery Cap Removal and Installation”

For charging Li-ion batteries, use an AC adapter (USB type) with a maximum output of 2.4A or higher.

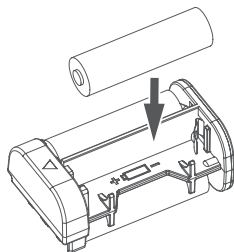
Battery Installation (AA Batteries)

Load four AA-size alkaline or nickel-metal hydride batteries into the battery holder.

Follow the battery holder markings and set the batteries with the correct polarity (+ and -). Do not mix different types of batteries.

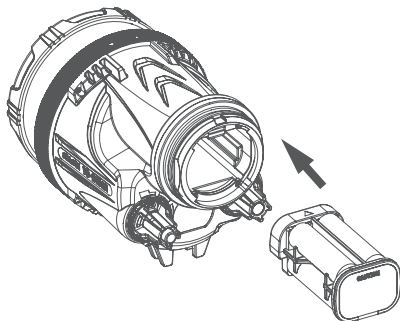
Only alkaline batteries or nickel-metal hydride batteries may be used.

Some rechargeable AA batteries may have a slightly larger diameter compared to standard alkaline AA batteries. Forcing them in may cause malfunction. If the battery holder does not slide smoothly into the strobe, discontinue use.



Insert the battery holder straight in the direction of the ▲.

Ensure it clicks into place and is securely locked by the tabs.



➡ E-11 See “Battery Cap Removal and Installation”

Strobe Ball Base

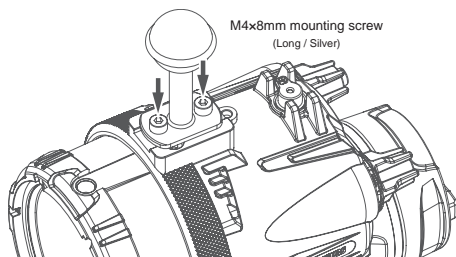
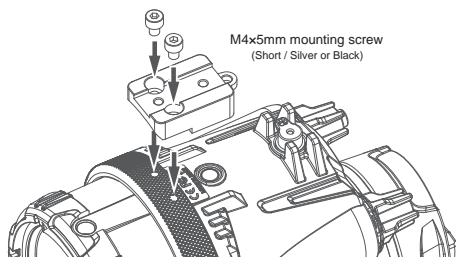
By attaching the included strobe ball base, various arm configurations are possible via the clamp. The strobe ball base can be mounted either on the top or bottom of the main unit, depending on the desired style during arm configuration.

Attach the base block to the designated position on the top (or bottom) of the strobe using the mounting bolts.

Caution

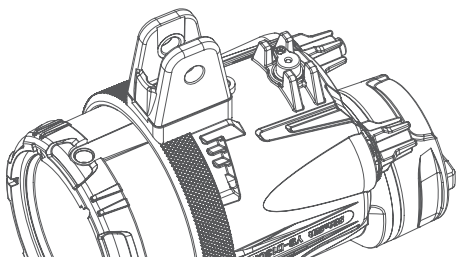
- Using screws of the incorrect length may damage or break the main unit.

Attach the strobe ball base to the top of the base block using the mounting bolts.



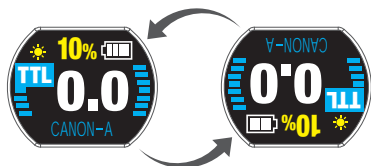
Strobe YS Base (sold separately)

By attaching the separately sold 'Strobe YS Base' to the base block, connection to the arm tip of the YS top type is possible.



Depending on the arm extension position, the LCD panel display can be rotated 180 degrees.

 E-22 See "Setup Mode"



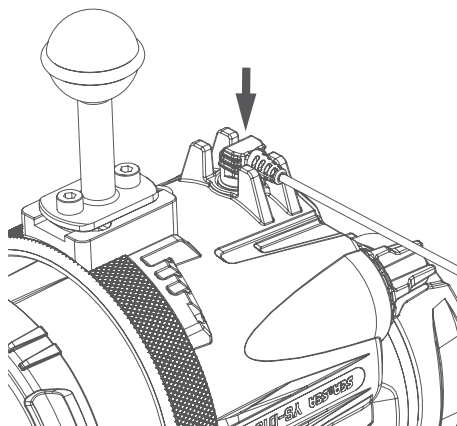
Connecting Fiber Optic Cables

When using the camera's built-in flash to trigger this product, connect it using the SEA&SEA Optical Fiber Cable II (optional). This product detects the light from the camera's built-in flash when connected via the optical fiber cable and fires in sync with it.


Caution

- Please note that some housings cannot accommodate fiber optic cable connections.
- Always perform this operation with the strobe power turned OFF.

Insert the fiber optic cable connector into the fiber optic socket (optical sensor) until it stops.

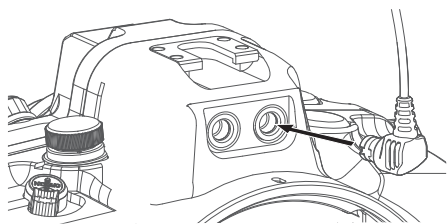


- If you insert an optical fiber into the optical fiber socket for additional lighting, it will not emit light correctly.

 "Optical Fiber Socket (for Additional Lighting)" (E-15)

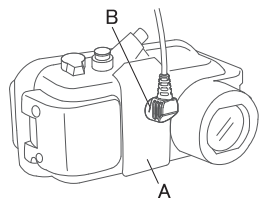
Connect the fiber optic cable connector to the housing's port.

- If you cannot connect the optical fiber directly to the housing (no optical fiber port), attach the strobe mask (A: optional) to the flash window section and connect the optical fiber cable (B: optional).



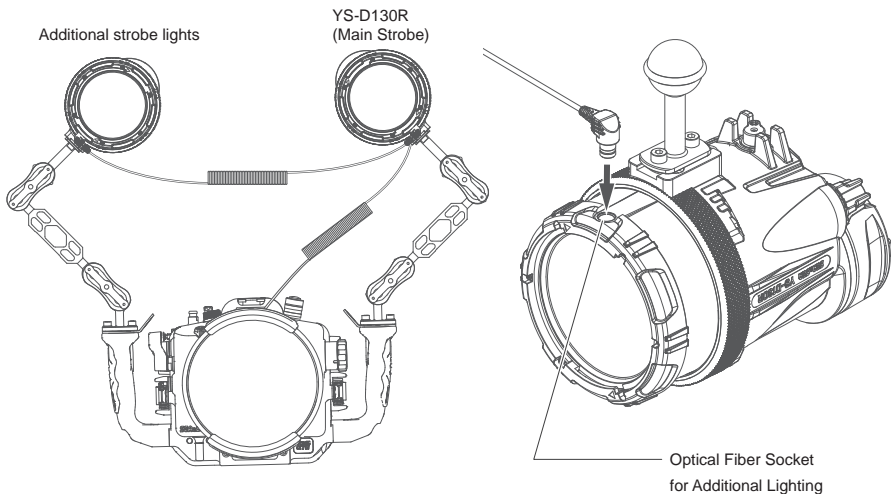
Caution

- When taking pictures, always set your camera's built-in flash to forced-flash mode. If the camera's built-in flash does not fire, this product will not fire either. Refer to your camera's instruction manual for how to set forced-flash mode.
- Before use, be sure to carefully read the instruction manuals for the SEA&SEA Optical Fiber Cable II and the housing.



Optical Fiber Socket for Additional Lighting

This product can be used as the main strobe, and additional strobes can be added. Connect the optical fiber socket for adding strobes on the main strobe to the light sensor of the additional strobe using an optical fiber cable.



Column

About Strobe Flash Modes

You can select the strobe's operating mode based on your camera and the shooting situation. With the YS-D130R, you can assign the following modes to Dial-A and Dial-B respectively.

➡ E-20 See 'Setup Mode'

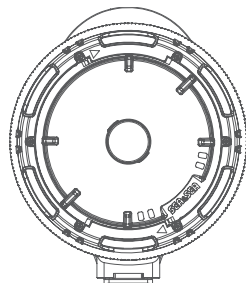
| | |
|---------------------------|--|
| TTL (Auto-dimming) | Recommended for beginners. The camera automatically sets the optimal flash output. |
| Manual P | For models where the camera fires a pre-flash. The strobe automatically detects and cancels the pre-flash, firing the main flash correctly. |
| Manual N | For models where the camera does not support pre-flash. |
| RC | For cameras compatible with OM SYSTEM/OLYMPUS RC mode. |
| HSS | For shooting scenarios requiring fast shutter speeds, such as backlit shots in shallow water. |

*Compatible cameras and converters are required. Please check our website for compatibility details.

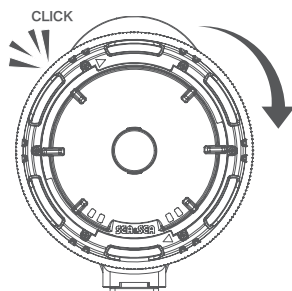
https://www.seaandsea.co.jp/pdf/ysd130r_hss_table_eng.pdf

Installation of the Diffuser

Insert the diffuser into the front of the strobe at the position shown in the diagram.



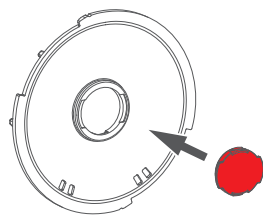
Turn clockwise until you hear a click and it locks into place.



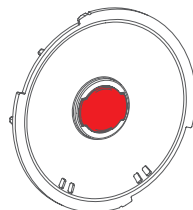
To remove, rotate the diffuser counterclockwise to unlock.

Attaching the Red Filter

Align the tabs and press the red filter straight onto the center hole from the back of the diffuser.



Press the red filter firmly until you hear a click and it locks into place.



To remove the red filter, gently press it from the front side of the diffuser using your fingers or similar.

How to Use

Power ON/OFF, Mode Selection

⚠ Warning Please perform this with the battery cap properly installed.

If the battery cap is not properly installed, the device may not start up correctly.

➡ E-11 See "Battery Cap Removal and Installation"

⚠ Caution Do not turn on the power with the light sensor exposed.

Always keep the 'Optical Fiber Socket Rubber Cap' attached to the optical fiber socket except when installing the optical fiber cable. If power is turned on with the optical sensor exposed, the sensor may react to external light, potentially causing unexpected light emission.

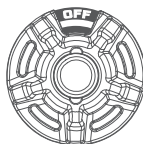
➡ E-23 See 'Error Display'

Rotate the mode dial to select the desired mode.

When the power turns on, the status lamp will light up in sequence from [Blue] to [Green] to notify you.

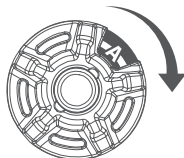


Turn off the power.
When not in use, set it to [OFF].



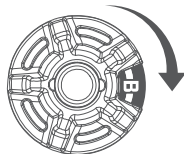
The power turns on and the camera enters the mode set on the Mode Dial-A.

The factory default setting for Mode Dial-A is [RC]
(CH-1, GRP-A).



The power turns on and the camera enters the mode set on the [Mode Dial-B].

The factory default setting for Mode Dial-B is
[Manual-N].

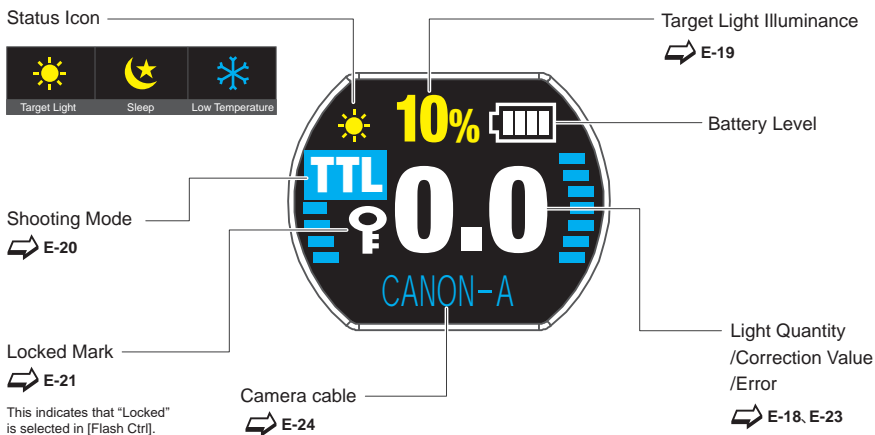


⚠ Caution

- Operate the switches slowly. Sudden operation may cause the LCD display to become distorted.
If this occurs, turn the power off and then restart the device.

LCD Panel

The LCD panel displays various settings information. The contents of each item are as follows.



About the Battery Level Indicator

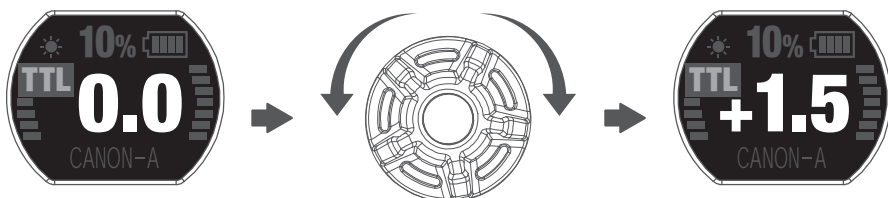
The battery level is displayed in four stages. When the battery level reaches 0, the power will automatically turn off.

Light Level Adjustment

Use the select dial to adjust the brightness of the currently set mode.

The brightness increase/decrease step can be changed in the settings menu.

➡ For details on each setting item, refer to E-20 "Setup Mode".



Target Light

Each time you press the OK button, the target light toggles on and off.

The target light automatically turns off during strobe flashes and turns back on after 0.5 seconds.

When the target light is turned on, the light intensity indicator flashes, entering light intensity adjustment mode. You can adjust the light intensity using the select dial.

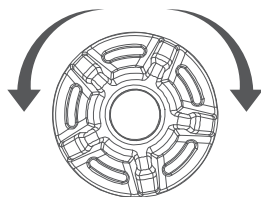
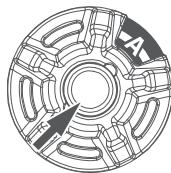
If no operation is performed for approximately 5 seconds, the light intensity indicator will remain lit, returning to normal mode.

The step size for increasing or decreasing the target light intensity can be changed in the settings menu.

➡ For details on each setting item, refer to E-20 "Setup Mode".

⚠ Caution

• While the target light is illuminated, the light intensity may briefly decrease at regular intervals. This is a design specification and does not indicate a malfunction.



Precautions for Using This Device

⚠ Caution

The mode dial and select dial on this unit are made with precision components. If sand or foreign objects enter these components due to your operating environment, causing the dials to feel heavy, stiff, or unresponsive, do not force them. Doing so may damage the unit or cause circuit board damage due to missing internal parts.

If you notice any abnormalities, please contact our customer support.

Low-Temperature Mode

In low-temperature environments, battery output may decrease, causing power supply instability or inaccurate remaining charge display. Enabling low-temperature mode compensates for these issues. Recommended operating environment: 15°C or below

Caution

- During low-temperature mode, battery consumption increases and recycling time lengthens.


Auto Power Off

If no operation is performed for a certain period of time, the power will automatically turn off. It will resume operation when the power is turned back on.

Sleep

If no operation is performed for a certain period of time, the device will enter power-saving mode. It will resume operation when light input or dial operation is detected.

You can configure the on/off settings for each function and the time until operation begins in setup mode.

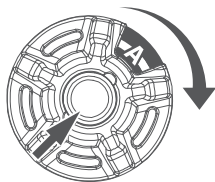
 For details on each setting item, refer to E-20 "Setup Mode".

Setup Mode

With the power set to **[OFF]**, press and hold the OK button while rotating the mode dial to **[A]** to enter setup mode.

The LCD will display the screen shown in Figure A.

Use the select dial to choose an item, then press the OK button to confirm.



A



Shooting Mode

| | |
|----------|--|
| TTL | Auto-dimming light |
| Manual-P | Pre-flash Cancel Manual Flash |
| Manual-N | Manual flash without pre-flash cancellation |
| RC | OLYMPUS/OMDS RC Mode |
| HSS | No pre-flash cancellation Manual high-speed sync |

HSS shooting requires a compatible camera and converter.
Please check our website for compatibility details.

https://www.seaandsea.co.jp/pdf/ysd130r_hss_table_eng.pdf

Quick Setup () indicates the item name displayed on the LCD

| | | | | | |
|------------------------|-------------------------|---|----------|-----------------------|--|
| Quick Setup (Quick) | Mode Dial-A (Mode-A) | → | TTL | Camera Code Selection | Mode dial A Assigned mode selection Default : RC |
| | | | RC | | |
| | | | Manual-P | Camera Code Selection | |
| | | | Manual-N | | |
| | | | HSS | | |
| | Mode Dial-B (Mode-B) | → | TTL | Camera Code Selection | Mode dial B Assigned mode selection Default : Manual-N |
| | | | RC | | |
| | | | Manual-P | Camera Code Selection | |
| | | | Manual-N | | |
| | | | HSS | | |

⚠ Caution

- If the Camera Code is not set correctly, TTL will not function properly.

Full Setup () indicates the item name displayed on the LCD

| | | | | | |
|---------------------------|--------------------------|------------------------------|-----------------------------------|---|--|
| Full Setup (Full) | Mode Dial (ModeDial) | Mode-A (Mode-A) | TTL | Camera Code Selection | Mode dial A Assigned mode selection Default : RC |
| | | | RC | | |
| | | | Manual-P | Camera Code Selection | |
| | | | Manual-N | | |
| | | | HSS | | |
| | | Mode-B (Mode-B) | TTL | Camera Code Selection | Mode dial B Assigned mode selection Default : Manual-N |
| | | | RC | | |
| | | | Manual-P | Camera Code Selection | |
| | | | Manual-N | | |
| | | | HSS | | |
| | RC Mode (Rc Mode) | RC Channel (Channel) | CH-1 / CH-2 / CH-3 / CH-4 | | RC Mode Channel Selection Default : CH-1 |
| | | RC Group (Group) | GRP-A / GRP-B / GRP-C | | RC Mode Group Selection Default : GRP-A |
| | Flash Ctrl (FlashCtl) | TTL Step (TTL) | Locked / 0.3EV / 0.5EV / 1.0EV | | TTL Light Intensity Increase / Decrease Step Default : 0.5EV |
| | | RC Step (RC) | Locked / 0.3EV / 0.5EV / 1.0EV | | RC Light Intensity Increase / Decrease Step Default : 0.5EV |
| Manual Step (Manual) | | 0.3EV / 0.5EV / 1.0 EV | | Manual Light Level Increase / Decrease Step Default : 0.5EV | |
| Manual Range (M Range) | | Full~-7.0EV / Full~-9.0EV | | Manual Minimum luminous flux Default : Full~-7.0EV | |
| HSS Step (HSS) | | 0.5EV / 1.0EV | | HSS Light Quantity Increase / Decrease Step Default : 0.5EV | |




 **Caution**

- If the Camera Code is not set correctly, TTL will not function properly.

Full Setup *continued* () indicates the item name displayed on the LCD

| | | | | |
|----------------------|--------------------|----------------------------|--|---|
| Full Setup (Full) | System (System) | Cold Mode (ColdMode) | OFF / ON | Low Temperature Mode Selection Default : OFF |
| | | Battery Type (BattType) | Li-ion / Ni-MH / LR6 | When Li-ion batteries are installed: Li-ion When AA batteries are installed: Ni-MH / LR6 Default : Ni-MH |
| | | Light Step (Light) | 5% / 10% / 20% / 25% / 50% / OFF | Target Light Intensity Increase / Phenomenon Step Default : 10% |
| | | Buzzer (Buzzer) | Charge Only / Charge + Dial / OFF | Charge Only : Charge Complete Buzzer Sound Charge + Dial : Charge complete + Buzzer sound during dial operation OFF : No buzzer sound Default : Charge + Dial |
| | | Lcd Rotate (Lcd Rot) | 0degree / 180degree | LCD Display Orientation Selection Default : 0degree |
| | | Sleep (Sleep) | OFF / 5min. / 10min. / 30min. / 60min. | Sleep Mode Time Selection Default : OFF |
| | | Auto PwrOff (AtPwrOff) | OFF / 5min. / 10min. / 30min. / 60min. | Auto Power Off Time Selection Default : OFF |
| | | All Reset (AllReset) | Execute | Reset to factory default settings |
| | | Version (Version) | | Firmware Version Check |

Error Display

| Error Details | LCD Display | Response |
|--|---|--|
| Internal Anomaly Detection | <p>Red Indicator</p>  | <p>There may be an internal malfunction. For safety reasons, the LCD will display an error code and then automatically power off. Stop using the device immediately and contact our customer service department.</p> |
| Light Emission Limit (Temperature Limit) | <p>Yellow Indicator</p>  | <p>Repeated high-output operation within a certain time period will cause the unit temperature to rise, and light emission will be restricted to protect the device. (Temperature Protection Function) Normal operation will automatically resume once the unit temperature drops. Please wait until the restriction is lifted.</p> |
| Light Emission Limit (Light Input Limit) | <p>Yellow Indicator</p>  | <p>If unintended light input persists, light emission will be restricted to prevent accidental illumination. Please ensure the optical fiber cable or the rubber cap for the optical fiber socket is properly installed in the optical fiber socket.</p> |

About the Temperature Protection Function

- This product is designed for high output and high-speed continuous illumination. Under conditions such as high light output, short illumination intervals, or continuous use, the internal temperature may rise, causing the HEAT WARNING (temperature protection function) to activate.
- The HEAT WARNING is not an indication of product malfunction or performance failure. It is a protective function incorporated as part of the product specifications and constitutes normal operation.
- When the HEAT WARNING activates, flash output will be temporarily limited. It will automatically resume after cooling without user intervention.
- This function is essential for ensuring the product's durability and safety. Its activation and timing may vary depending on the usage environment (ambient temperature, water temperature), settings, and shooting conditions.
- To reduce the frequency of HEAT WARNING activation, we recommend the following usage methods:
 - Lower the strobe output level
 - Ensure adequate intervals between flashes
 - Limit the number of consecutive flashes
 - Adjust camera settings (aperture, ISO sensitivity, etc.) to reduce the required light output

| Light Level Setting | Lighting interval | Approximate duration for continuous illumination: 8 seconds |
|---------------------|---|---|
| FULL | Approximately 1 frame every 2 seconds | Approximately 4 times |
| -0.5 | Approximately 1 frame every 1.2 seconds | Approximately 7 times |
| -1.0 | Approximately 1 frame every 0.8 seconds | Approximately 10 times |
| -1.5 | Approximately 1 frame every 0.5 seconds | Approximately 19 times |
| Below -2.0 | No limit | No limit |

Camera Code List

| Camera Maker | Compatible Cameras [Electronic Curtain Settings] | TTL Converter | Camera Code |
|--------------|---|---------------|-------------|
| Nikon | D750 | | Nikon-D |
| | D810 | | Nikon-D |
| | D850 | UW Technics | Nikon-A |
| | D850 | SEA&SEA | Nikon-C |
| | Z50II | | Nikon-E |
| | Z7 | UW Technics | Nikon-A |
| | Z7 | SEA&SEA | Nikon-B |
| | Z8 | UW Technics | Nikon-B |
| Canon | Z9 | UW Technics | Nikon-B |
| | 5D mk4 | UW Technics | Canon-B |
| | 90D | | Canon-A |
| | R3 | UW Technics | Canon-C |
| | R50 | | Canon-D |
| | R5II | UW Technics | Canon-C |
| | R5II | SEA&SEA | Canon-E |
| Sony | R7 | UW Technics | Canon-C |
| | RX100VII | | Sony-E |
| | α1 | SEA&SEA | Sony-A |
| | α7IV [Curtain cut] | SEA&SEA | Sony-C |
| | α7IV [Curtain Rise] | SEA&SEA | Sony-D |
| | α7RIV[Curtain cut] | SEA&SEA | Sony-C |
| OM SYSTEM | α7RIV [Curtain Rise] | SEA&SEA | Sony-D |
| | OM-1 | FL-LM3 | OM System-B |
| | TG6 | | OM System-A |
| SEA&SEA | XZ1 | | OM System-A |
| | DX-1G | | SEA&SEA-B |
| | DX-2G | | SEA&SEA-B |
| Panasonic | DX-6G | | SEA&SEA-A |
| | GH4 | | Panasonic-A |
| RICOH | GH5 | | Panasonic-A |
| | RICOH GR DIGITAL IV | | DEFAULT CAM |
| Fujifilm | Fujifilm X10/X20/XQ1/XQ2 | | DEFAULT CAM |
| | Fujifilm X-H1 | EF-X8 | DEFAULT CAM |

Camera Shutter Settings

If your camera allows you to select the shutter type, set it to mechanical shutter before taking flash photographs.

Electronic shutter may not synchronize properly with the flash, potentially causing parts of the photo to appear dark or resulting in unintended exposure.

Status Lamp List

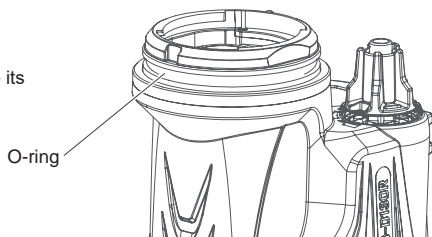
| Status | Lamp Operation |
|-------------------------------|------------------|
| Immediately after powering on | Blue light on |
| Power off | Lights out |
| Charging | Green flashing |
| Charge complete | Green light |
| Processing light emission | Lights out |
| Lighting Success | Blue-Tinted Lamp |
| Lighting failure | Red light |
| Startup error | Pink light on |

Care and Storage Instructions

O-Ring Maintenance

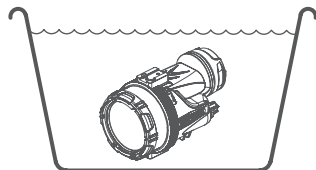
This product maintains its waterproof performance through O-rings. To ensure the O-rings function properly, always perform maintenance on them before setting up.

- Always remove the O-ring for maintenance.
- After maintenance, securely install the O-ring into its designated groove.



⚠ Caution

- After use, ensure the device is waterproofed, then fully submerge it in fresh water as shown in the diagram before rinsing under running water. While washing, move any moving parts (such as dials or buttons). Do not move the battery cap during washing.
- If not soaked sufficiently in fresh water or only rinsed under running water, salt residue remains. When dried, salt crystallizes and becomes difficult to dissolve in water. Salt crystals adhering to this product are extremely difficult to remove and may cause water leakage. Be sure to soak thoroughly in fresh water.
- After washing, thoroughly wipe off moisture with a dry, soft cloth and air-dry in the shade.
- Do not use heat-generating appliances to force-dry the product, as this may cause deformation or damage.
- When not in use for extended periods, store away from high temperatures, high humidity, direct sunlight, and extremely cold locations.
- After use, remove the battery(ies) before storage.
- After use, perform O-ring maintenance before storage. Always inspect the O-ring before and after use; we recommend replacing it promptly if necessary.
- While frequency of use and storage conditions vary, to maintain product performance, we recommend sending it for overhaul (fee applies) approximately every two years after purchase.
- If the product will not be used for an extended period, insert batteries and perform a test illumination approximately once a month to prevent deterioration of internal electronic components. With the status lamp capable of illumination, set the mode switch to [OFF] and remove the batteries. Also, operate each control as you would during actual shooting.



If You Suspect a Malfunction

Please check the following items. If the issue persists after checking, please contact our customer service.

Status lamp/LCD panel does not light up

- Are batteries installed? (E-12)
- Are batteries inserted correctly? (E-12)
- Are you using old batteries?
- Is the battery cap securely closed? (E-11)
- If used continuously, the internal protection circuit will activate. Turn the power OFF, leave it in a cool place for a while, then use it again.
- If left in a high-temperature location, the internal protection circuit will activate. Please leave it in a cool place for a while before using it.

Does not emit light

- Is the optical fiber cable securely connected? (E-14)
- Is the camera's built-in flash/main flash firing?
- Are the TTL converter or optical sync unit firing?

The flash is firing in manual mode, but the captured image is dark.

- Does the flash mode of the camera's built-in flash/main flash match the flash mode of the YS-D130R? (E-24)
- For details, please refer to the "Setup Mode" section in this manual.

Images are too bright/too dark when shooting in DS-TTL mode

- Is the optical fiber cable securely connected? (E-14)
- Is the light intensity adjustment set to +/- compensation in DS-TTL mode?
- Compensation through light intensity adjustment may not be effective depending on shooting conditions or camera settings.

The power automatically turns off.

- Auto Power Off mode is active. To turn the power back on, first set the mode switch to [OFF], then set it to the desired mode.

LCD display is distorted

- Operate the switches slowly. Sudden operation may cause the LCD display to become distorted. If this occurs, turn the power off and then restart the device.

Product Specifications

| | |
|----------------------------------|---|
| Maximum Output | 130Ws |
| Beam Angle | 80°×82°、102°×102° (w/ Diffuser) |
| Use rechargeable Batteries | Dedicated Li-Ion Rechargeable Battery (SB-L02) 1.5V Alkaline AA Batteries × 4 1.2V Nickel-Metal Hydride AA Batteries × 4 |
| Recycle Time (Full illumination) | Li-Ion Rechargeable Battery: 0.8 seconds Alkaline AA battery: 4.0 seconds Nickel-metal hydride AA battery: 2.5 seconds |
| Number of Flashes | Li-Ion Rechargeable Battery: 220 times Alkaline AA battery: 160 times Nickel-metal hydride AA battery: 110 times |
| Color Temperature | 5600K |
| Maximum Operating Depth | 100m |
| Size | W 98mm × H 110mm × D 157mm (excluding ball base) |
| Weight | 715g (main unit only, excluding batteries and ball base) |
| Weight in Underwater | Approximately 30g (including Li-ion rechargeable battery and ball base) Approximately 50g (including AA battery and ball base) |
| Accessories (Common) | Diffuser, red filter, strobe ball base, silicone grease, AA Battery Holder, Base Block |
| Accessories (PRO Package) | SB-L02 Li-ion Battery, SC-L01D Dedicated Dual USB Charger |

SEA&SEA