1218-Z-01A

Internal YS Converter / C for MDX-5D Mark III

50125

50124

Internal YS Converter / C for MDX-6D

Instruction Manual

Thank you for purchasing SEA&SEA products. Please read this instruction manual carefully prior to using this product. Only with a thorough understanding of this manual's content will you be able to use this product correctly. After reading the manual, please be sure to keep it in a place where you can easily come back to it at any time.

| Safety Precautions

For safe handling of the product, please read the following precautions carefully before use.

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.

Situations that could result in severe injury or death.

/!\DANGER

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

Situations that could result in property damage or personal injury.

∕!\ 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.

/!∖ WARNING **____**

- Use only batteries approved for use in this product. Do not mix old and new batteries or batteries of
- Remove batteries before transport or storage, or when you are not going to use the product for an extended period of time, to prevent unexpected activation.
- 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 handle batteries wet hands to prevent shock hazards. • 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.

∠!\ CAUTION ■■■

- 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. • 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.
- Keep away from strong magnetic fields. Do not use or store this product in the vicinity of equipment that generates strong electro-magnetic radiation or magnetic fields. Strong static charges or the magnetic
- fields could cause malfunction, or affect the product's internal circuitry. • 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. • Make sure that the connectors have been secured with the connector caps before rinsing the product
- with fresh water, after removal from other products. • 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 SUNPAK Co., Ltd. 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 malfunc-
- SEA&SEA SUNPAK Co., Ltd. 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 SUNPAK Co., Ltd. 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 userserviceable 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.
- 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
- 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.

/!\ WARNING

- 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, overheating 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.

/!∖ CAUTION **■**

- Avoid strong shocks/impacts or excess stress to batteries.
- Dirt on the battery terminals can prevent the product from functioning. Should the battery terminals become dirty, wipe them with a clean, dry cloth before use.
- Turn the equipment off after use. Remove batteries from the equipment when not in use. Store in dry area with temperatures ranging from -20°C to 30°C (-4°F to 86°F).

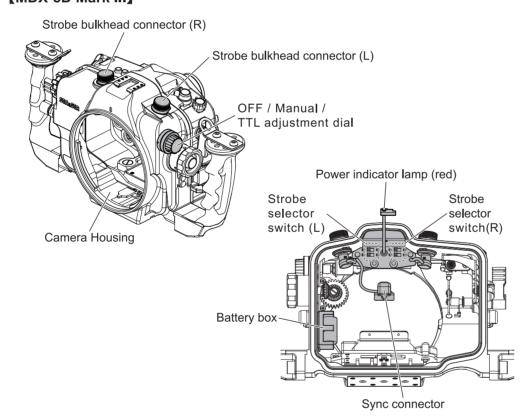
Maintenance and Storage

- 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.
- Always remove batteries from the product after use. • 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 once a year. • Every two years we recommend a complete overhaul of O-rings regardless of the frequency in use,

Identification of Parts

for the best performance of the product.

[MDX-5D Mark III]



[MDX-6D]

Strobe bulkhead connector (R) Strobe bulkhead connector (L) lamp window → **(+)** OFF / Manual / TTL adjustment dial is outside the rear case Power indicator lamp (red) Strobe Strobe selector selector switch (I switch(R) Camera Housing

Svnc connecto

How to use

Battery installation

This product can only be used with CR2 lithium batteries. Never use other kinds of

- 1 Make sure the OFF / Manual / TTL adjustment dial is in the [OFF] position
- 2 Insert battery aligned to the + and marks of the battery box
 - Take care to insert the battery in the correct direction.

- When installing or removing batteries, thoroughly wipe water off this product and dry your hands. Pay particular attention not to allow water from your hair or wetsuit to drip into the battery compartment. This is in order to prevent an electrical hazard, mold, malfunction or flooding.
- Remove the battery from the product when not in use for a long period of time.
- The power lamp flashes when the remaining battery power is low. Replace the battery with a new one when the power lamp flashes.

How to connect with a camera body

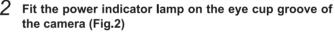
After installing camera to housing, please follow the following procedures for connecting Internal YS Converter C to the camera. Refer to housing instruction manual for installing camera to housing.

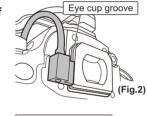
- 1 Insert the sync connector into the camera's accessory shoe
- When inserting or removing the sync connector, be sure to hold the connector part. If you push or pull on the cord part, it could damage the sync connector or cause contact failures.
- 2 When closing the housing, please ensure the connector cord is safely secured inside the housing

For MDX-5D Mark III users

For MDX-5D Mark III - Place power indicator lamp on the camera following below procedures. * This procedures is not required for using MDX-6D housing.

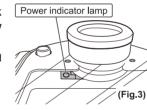
- When the camera is installed to the front case, the power indicator lamp must be placed behind the camera (Fig.1)
 - When inserting or removing the power indicator lamp, be sure to hold the lamp part. If you push or pull on the cord part, it could damage the power indicator lamp or cause contact failures.





Power indicator lamp

- 3 After closing the rear case of the housing, check Power indicator lamp position of the indicator lamp from the LCD window
 - If the indicator lamp is not visible, open the rear case and re-adjust position of the power indicator lamp until it is visible.

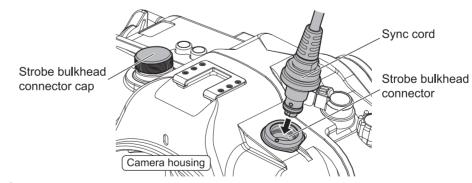


How to connect with strobes

The camera housing is equipped with two strobe bulkhead connectors, and can be used with either one or two strobes by setting the strobe selector switch in accordance with the connected strobes

Sync cord connection

- 7 Remove the strobe bulkhead connector cap from the camera housing
- 2 Connect the sync cord to the strobe bulkhead connector on the camera housing Refer to the strobe's instruction manual for details.



CAUTION -

- Before connecting the product to strobes, make sure to turn off all equipment.
- Plugging in/out the code while equipment is ON will cause damage or trouble. • Camera may not recognize the strobe depending on the condition. In such situation, turn off all
- equipment, then turn on the power of the converter. • This product is only compatible with certain SEA&SEA products. Use of other equipment will void

Handling the strobe bulkhead connector

connector from penetrating the bulkhead connector.

- Do not touch the connector's contact pins with fingers or contaminate the pins with silicone grease. If contaminated accidentally, clean the pins by a soft cloth.
- When the sync cord is detached from the strobe or converter, be sure to cover both connectors ends with the plastic cap. • 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 connector 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 and bulkhead

The dial is used to turn the power OFF, switch between modes (Manual or TTL), and adjust the strobe's intensity during TTL mode. When the dial is set to [M] or TTL adjustment range (-2.0 to +2.0*), the power lamp lights up in red and the converter is activated.

OFF / Manual / TTL adjustment dial

Operating Instructions

* The TTL adjustment range value (-2.0 to +2.0) is designated by SEA&SEA, and it is different from the EV value. The strobe's intensity can be adjusted in 1/3 increments. Setting the dial in the plus (+) range increases the intensity and setting it in the minus (-) range decreases the intensity.

Strobe selector switch (L/R)

Select the mode from the strobe selector switch using the chart below. Strobe mode can be selected from 4 different modes.

* When 2 strobes are used, strobe selector switch (L / R) must be setted on each strobe.

[MDX-5D Mark III]





Setting Precautions

• The camera's battery consumption rate will increase when this product is connected to the camera and the camera is turned ON (in standby mode). Make sure to turn the camera OFF or terminate the connection between the camera and this product by removing the sync connector within the housing from the camera when not in use.

Set the strobe selector switch in accordance with the connected strobe

2 Set the adjustment dial within the TTL range (-2.0 to +2.0)

- For normal use, keep it at " 0 ".
- the TTL adjustment dial according to the situation or your preference.

Set the switches of the strobe for TTL photography

• Turn OFF the slave function of the strobe if it is available. Refer to the strobe's instruction manual for details.

- Be sure to set the camera as below for TTL photography. · For better resolution, use ISO 400 and below is recommended.
- Set the exposure compensation to ±0EV.
- supporting E-TTL II.
- Refer to the camera's instruction manual for the setting.
- The YS-90 series strobes and the YS-60 strobe cannot emit weak light due to their functional characteristics.
- aperture setting, as the YS-90 series strobes and the YS-60 strobe have a tendency to emit excess light.
- Move the strobe away from the subject.
- Set the strobe selector in accordance with the connected strobe
- 2 Set the adjustment dial to the M (Manual) position
- Adjust the amount of light for each strobe

∠!\ CAUTION -

continue to use manual mode by switching the control dial to manual. Manual shooting is also

Specifications ∗₁

Power	CR2 Lithium battery
Continuous operation time	Approx. 24 hours (based on normal room temperature 25°C, until the power lamp flashes *Available to use approx.12 hours once power indicator lump starts flushing
Operatiing temperatures limitation	1 °C - 40 °C (+33.8 °F - 104 °F)
Weight	Approx. 120g / 4.23oz
Accessories	CR2 Lithium hattery *2 Instruction Manual (this manual)

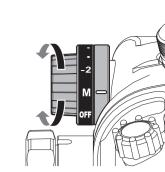
*1 Specifications and appearance are subject to change without notice.

*2 The supplied CR2 lithium battery is for testing purposes only. Replace it with a new battery if product performance is inadequate.



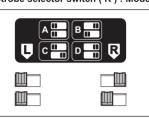
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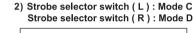
World Customer Service Center TEL. +81-48-255-8512

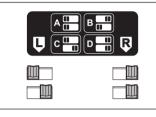


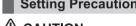
[Selecting example]

1) Strobe selector switch (L): Mode A Strobe selector switch (R): Mode E









TTL photography

- This product supports various camera models, and the shot images might be over or under exposed depending on the camera's characteristics. Please adjust the strobe intensity with
- The intensity of only one strobe cannot be adjusted with this product when two strobes are connected to it.

- Set the shutter curtain sync timing to 1st curtain sync. - Select "1: Average" in custom functions menu "E-TTL II " when using with Canon cameras
- The pre-flash(es) is fired when the converter is set in the TTL mode.
- The following procedure is recommended for shooting at short distances or with the minimum
- · Use the diffuser supplied with the strobe.

Manual photography

- 3 Set the switches of the strobe for manual photography

• If the battery of the Internal YS converter C is exhausted when using on TTL mode, you can still possible if there is no battery inserted on the YS converter C.

Power	CR2 Lithium battery
Continuous operation time	Approx. 24 hours (based on normal room temperature 25°C, until the power lamp flash *Available to use approx.12 hours once power indicator lump starts flushing.)
Operatiing temperatures limitation	1 °C - 40 °C (+33.8 °F - 104 °F)
Weight	Approx. 120g / 4.23oz
Accessories	CR2 Lithium battery *2, Instruction Manual (this manual)

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(Current as of Apr.2013)