

INON

Safety Precautions

- Before using your flashlight, please ensure that you have read and understood the safety precautions described below and separate 「user manual」 / 「Measures to Prevent Accidental Flooding」. Please keep these documents handy for easy reference.
- The safety precautions are intended to instruct you in the safe and correct operation of the strobe to prevent injuries or damage to yourself, other persons and equipment.
- The symbols and their significance are described below.



DANGER

Failure to observe the precautions indicated by this symbol may lead to high possibility of serious injury or death.



WARNING

Failure to observe the precautions indicated by this symbol may lead to possibility of serious injury or death.



CAUTION

Failure to observe the precautions indicated by this symbol may have the possibility of resulting in possibility of injury or property damage.



WARNING

DO NOT turn on the flashlight in front of person's eye (particularly an infant).

The flashlight may cause irreparable injury to the eyes or cause temporary visual impairment.

DO NOT use on land (except for brief function check less than 1 minute in total) to prevent fire or damage on this product.

Always use heat-safe gloves when conducting the function check on land to avoid burns including low temperature burns where you do not feel so hot.

DO NOT use the flashlight in a place where it may be exposed to flammable or explosive gas.

Otherwise fire ignition or explosion may result.

Turn OFF the flashlight when not in use. (Never leave the product being ON)

Remove batteries immediately after exhaustion.

Batteries could produce flammable gas causing the flashlight to explode. Storing the flashlight with batteries for extended periods of time could cause batteries to leak, overheat or explode which may result in fire, injury or damage to other property.

When turn OFF the light, lock the switch at OFF position.

Remove batteries when not in use.

Unexpected activation of the light by vibration etc. could cause fire or injury. Storing the light with batteries for extended periods of time may cause batteries to leak, overheat or explode which may result in fire, injury or damage to other property.



WARNING

Never leave or carry battery loaded battery cartridge as it is.

Make sure to store in insulated container like a ziplock to avoid short-circuit which could generate flammable gas from batteries and possibly cause accidental explosion or battery to explode, or lead to fire/injury/property damage due to battery leakage or generated heat.

Never attempt to modify the flashlight or disassemble the light head to avoid malfunction, damage or flooding, which could lead to injury.

Prevent water from entering the flashlight to avoid malfunction, damage or flooding, which could lead to injury.

Always check O-rings, batteries and flashlight operation before using to avoid flooding, malfunction and unexpected deactivation of the product due to battery exhaustion, which could lead to an accident.

Stop operating and turn off the flashlight immediately if any water is observed inside flashlight or flashlight operates improperly.

Flammable gas may build up and cause explosion of the product, which may result in serious injury. Remove batteries being careful to avoid electrical shocks or burns. Contact your local dealer for repair.

DO NOT use flammable solvent containing alcohol, benzene or thinners, oil and fat containing/chemical material like organic solvent, rust inhibitor, lubricant, polish, or alkaline detergent to clean the flashlight.

The use of these substances may lead to fire, explosion or damage to the flashlight.

Keep the flashlight out of reach of children.

Their inability to read and understand warnings may lead to serious injury. They may swallow parts of the strobe or batteries. See a doctor immediately if a child swallow parts or batteries.



CAUTION

DO NOT apply strong vibration or shock to the flashlight by dropping or hitting it against something.

Damage to the flashlight could cause malfunction or flooding possibly leading to injury or fire. Strong vibration/shock could deform batteries or damage battery case causing battery to leak or to generate heat resulting in fire or injury.

DO NOT “jump” into the water with the flashlight or other photographic equipment to avoid injury which may be caused by malfunction, flooding or unexpected movement of equipment.

DO NOT leave/store the flashlight in a place subject to strong sunlight or high temperatures, such as a beach, the deck of a boat, dashboard or trunk/boot of a vehicle.

Otherwise damage to the flashlight may result in injury, fire or malfunction.

Partially unscrew the Light Head or remove it for flying or traveling to other areas with lower air pressure than sea level (traveling across mountains for example) to avoid damage to waterproof integrity which may result in flooding or injury.



DANGER

DO NOT use batteries other than batteries specified in user manual.

[Compatible batteries]

- Panasonic AA “eneloop” rechargeable battery (BK-3MCC) [recommended] ,
- Panasonic AA “eneloop pro” rechargeable battery (BK-3HCC, BK-3HCD) [recommended] , and
- (“eneloop” type) “new generation” NiMH battery with same performance
- “Conventional” NiMH battery (1.2V) other than above [good quality]
- AA Alkaline (1.2V)

DO NOT use any battery which you observe irregularity including leakage, deformation, discoloration or damage on battery jacket etc.

DO NOT throw a battery in a fire or heat it. Never attempt to disassemble or short-circuit a battery.

DO NOT immerse battery in water or allow it to get wet.

DO NOT mix old and new batteries, recharged and discharged batteries or batteries of different capacities, types, brand or manufacturer.

DO NOT attempt to recharge non-rechargeable batteries.

Be sure to recharge rechargeable batteries with specified battery charger. Follow battery and battery charger instruction manual.

DO NOT load batteries with the +/- battery terminal reversed

Follow any other instructions indicated in the battery/battery charger user manual.

Dispose batteries in accordance with all applicable federal, state and local regulations.

If the battery should leak • • •

- Keep away from fire to avoid ignition/explosion.
 - Should inner liquid contact skin or eyes, or get into mouth, immediately wash with a lot of fresh water and seek medical advice.
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As of May, 2019

INON LF3100-EW Light Head

Thank you for purchasing INON product.

This product is a service part for INON LF3100-EW and optional light head.

This unit is not usable as standalone and has to be properly assembled with compatible LF series LED flashlight battery box in exchange with pre-installed light head. Be sure to read this manual and relevant document to ensure you proper operation of the product.

Package contents :	• LF3100-EW Light Head	×1
	{ LF3100-EW Light Head Body 6 Click Selector Ring LF Unit { Selector Ring LF 6 Click Fixing Ring LF } Protector LF-EW }	
	• This instruction manual	×1
	• LF3100-EW 「User Manual」	×1
	• LF3100-EW 「Maintenance of Selector Ring LF Unit」	×1
	• LF3100-EW 「Safety Precautions」	×1

Other standard packaged accessory of the 「LF3100-EW」(「Dome Red Filter LF-EW」/「Light Shade LF-EW」/「INON Grease」etc.) are not included and optionally available.

Compatible LF series LED Flashlight (compatible "battery box unit" to attach this unit) :

- INON LF1400-S (LF1400-S Battery Box Unit)
- INON LF2700-W (LF2700-W Battery Box Unit)
- INON LF3100-EW (LF3100-EW Battery Box Unit)

This unit is for 6 x AA operated LF-1400S, LF2700-W and LF3100-EW but not usable for LE series LED flashlights or 3 x AA operated LF series flashlight (LF1000-S, LF1100-W, LF800-N, LF1300-EWf).

- Handling Precautions:**
- Before shipping, this product has been tested its water-proof property by manufacture with special jig tool. However you have to take full responsibility on assembling with a battery box unit to ensure water-proof property as whole LED flashlight since assembly with a battery box unit is done by a customer and INON INC. are unable to check how you assemble nor conduct pressure test of the assembled unit. Please be sure to read relative user manual/instruction manual carefully and follow them to ensure you with proper assembling. Before using assembled unit, we would recommend to conduct leak test as necessary. **INON INC. cannot take any responsibility for any problem resulting from assembly of this unit. Please contact purchasing dealer before assembling if you are not fully confident in installing this unit on your battery box unit.**
 - Before assembling, be sure to read though the LF3100-EW 「**Safety Precautions**」 **comes with this product** and follow warnings/cautions described there.
 - Refer to the LF3100-EW "User Manual", "Maintenance of Selector Ring LF Unit" **comes with this product** and "**Measures to Prevent Accidental Flooding**" **comes with your LF series LED flashlight** to see how to assemble, use and conduct maintenance.
 - **DO NOT** disassemble this unit to prevent malfunction/flooding.

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As of September 2017

INON

INON LF3100-EW

Thank you for purchasing INON product.

The INON LF3100-EW is a watertight LED flashlight equipped with high-intensity power LED producing powerful 3100 lumen intensity/super wide 100° coverage underwater, and fine 12 power settings in its compact body operated by easily obtainable and versatile 6 x AA batteries.

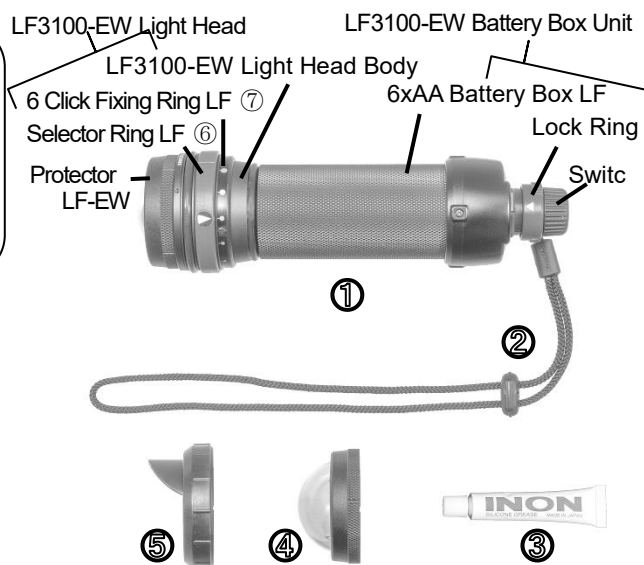
Before using, please read through this user manual and separate leaflets [Safety precautions]/[Measures to Prevent Accidental Flooding] to ensure proper operation of the product. This product is not usable on land except functional check not exceeding 1 minutes operation time in total. Refer to [Handling precaution] section in this manual for detail.

Features

- Usable as serious lighting device for photography/videography with 100° ultra wide coverage underwater, color temperature 5,000K to reproduce natural color in addition to a diving light carrying 120m depth rating thanks to its durable corrosion-resistant aluminum alloy and double O-ring construction for moving parts.
- Simple yet durable and user-friendly rotary switch assures you reliable ON/OFF operation with LOW/FULL mode and "Selector Ring LF" around the light head further provides fine 6 different power outputs each on LOW mode and FULL mode supporting total 12 different power settings.
- Operated by easily obtainable 6 x AA batteries. Compatible batteries including "eneloop" / "eneloop pro" etc. support approx. 45 minutes (FULL mode with maximum power setting) or approx. 3,185 minutes/53hrs 05min (LOW with minimal power setting) continuous operation (※) at minimal running cost.
※Average time to get half brightness comparing to initial performance when using "eneloop pro" batteries [Model code : BK-3HCD] underwater at 25°C/77°F.
- The LF3100-EW comes with two bundled accessories. The [Light Shade LF-EW] has a rotatable shade to block unnecessary light shining a lens directly to suppress ghost/flare or suspended particles between the camera and subject to avoid backscatter. The other bundled "Dome Red Filter LF-EW" changes color with same 100 degree coverage not to stimulate marine lives.
- Wide varieties of optional accessories are available including "Light Holder" products to attach this product on your camera/video system.
- Light Head is interchangeable with other compatible model to provide flexible usages.
- Equipped with on-board "overheat protection" to avoid malfunction caused by overheating like when function check on land exceeds operational limitation etc.

Package contents :

• LF3100-EW ①	x1
• LF3100-EW Light Head	x1
• LF3100-EW Light Head Body	
• 6 Click Selector Ring LF Unit	
• Selector Ring LF ⑥	
• 6 Click Fixing Ring LF ⑦	
• Protector LF-EW	
• LF3100-EW Battery Box Unit	x1
• 6xAA Battery Box LF	
• Switch	
• Lock Ring	
• 6xAA Battery Cartridge LF	x1
(preinstalled in the battery box)	
• Hand Strap ② (preinstalled on ①)	x1
• INON Grease ③	x1
• Dome Red Filter LF-EW ④	x1
• Light Shade LF-EW ⑤	x1
• This user manual	x1
• Safety Precautions	x1
• Measures to Prevent Accidental Flooding	x1
• Maintenance on Battery Terminals/Contacts	x1
• Maintenance of Selector Ring LF Unit	x1
• User manual of filter/Light Shade	x1



Preparation :

Prepare compatible batteries

Following 3 types are compatible with this product (*1). Prepare [six] batteries (same type/model) from same battery manufacture.

- 1) **Panasonic AA "eneloop" rechargeable battery (BK-3MCC) [recommended] , Panasonic AA "eneloop pro" rechargeable battery (BK-3HCC/BK-3HCD) [recommended] , And equivalent ("eneloop" type) "new generation" NiMH battery (*2)**
- 2) **AA "conventional" NiMH rechargeable battery other than above (1.2V) [good quality] (*3)**
- 3) **AA Alkaline battery (1.5V)**

*1 Other batteries are **not** usable such as AA Manganese battery, AA Oxyride battery or AA Lithium (1.5V) battery etc. Make sure to follow precautions of handling batteries described in separate [Safety Precautions].

*2 Including "new generation" NiMH batteries ("eneloop" type) carrying less self-discharging and heat generating characteristic comparing to "conventional" or "high-capacity" NiMH,

*3 Some "conventional" or "high-capacity" NiMH rechargeable batteries have significant self-discharge and heat-generating characteristic resulting difficulty to keep their performance during usage. We recommend using recommended batteries.

(continued)

Turn OFF, lock, remove LF3100-EW Light Head

Turn OFF the LF3100-EW by rotating the “switch” counterclockwise until it has been stopped. Pull up the Lock Ring (①) and rotate it counterclockwise(②) to match its ▽ mark with “LOCK” position on “6xAA Battery Box LF” (③). Then screw in the switch (④) until it has been stopped to lock the switch position at OFF.



Next, with holding the “6xAA Battery Box LF” (⑤) firmly, slowly turn the “LF3100-EW Light Head Body” with holding the black O-ring (⑥) on the light head counterclockwise to separate whole of the Light Head from the battery box unit.

To keep waterproof property, make sure slowly turn the switch/LF3100-EW Light Head to prevent O-ring from being damaged/twisted.



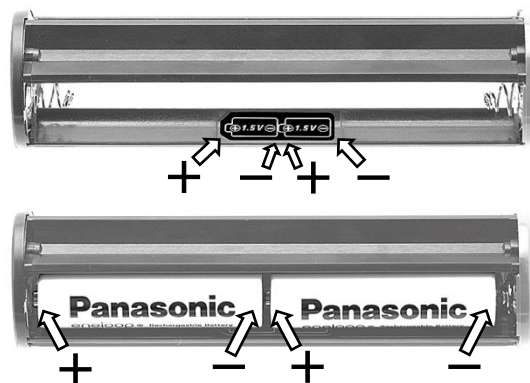
It is recommended **not to remove the “Protector LF-EW” from the “LF3100-EW Light Head Body”** to protect the “LF3100-EW Light Head Body” except for installing packaged filter etc. or conducting maintenance after use. Refer to respective user manual of filter/Light Shade or 「Maintenance」 section of this manual for detail of handling precautions when installing/removing “Protector LF-W”.

Load Batteries in 6xAA Battery Cartridge LF

Take out “6xAA Battery Cartridge LF” from “6xAA Battery Box LF”. Conduct maintenance of “6xAA Battery Cartridge LF” in reference to 「Terminals/Contacts Maintenance」 section of this user manual.

Then install batteries in the “6xAA Battery Cartridge LF” with correct orientation as shown on stickers inside of the “6xAA Battery Cartridge LF” [Negative terminals must touch spring contacts]

Also make sure to follow any handling precautions on battery mentioned in separate 「**Safety Precautions**」.



Once batteries are loaded in “6xAA Battery Cartridge LF”, put it immediately in “6xAA Battery Box LF” with the LF3100-EW being OFF or in an insulated container such as ziplock.

NEVER leave or carry battery loaded “6xAA Battery Cartridge LF” as its battery contacts being exposed.

Doing so may have short circuit causing batteries to produce heat/explode/leak battery fluid resulting in fire/injury/property damage

Install 6xAA Battery Cartridge LF after Checking O-ring etc.

Check conditions of O-rings etc. and conduct leak test if necessary to ensure waterproof property in accordance with separate paper 「**Measures to Prevent Accidental Flooding**」.

Next, conduct maintenance in reference to 「Terminals/Contacts Maintenance」 section of this user manual, then install the 6xAA Battery Cartridge LF with correct orientation as shown in image right and indicated on a sticker inside of the “6xAA Battery Box LF”.

[Positive terminal [Red] facing up]

**Attach the LF3100-EW Light Head**

Apply thin film of INON grease on the thread part of the “6xAA Battery Box LF” to prevent 「salt build-up」 or 「electric corrosion」 causing anchoring between the “LF3100-EW Light Head” and the “6xAA Battery Box LF”. **DO NOT** apply grease on electrical contacts to avoid bad connection.

Make sure the LF3100-EW is OFF once again at this stage, then hold the black O-ring on the “LF3100-EW Light Head Body” to slowly screw whole of the “LF3100-EW Light Head” onto the “6xAA Battery Box LF” as shown in the right image until it has been stopped with holding the “6xAA Battery Box LF” firmly.



(continued)

Never hold the “Protector LF-EW” or “6 Click Selector Ring LF Unit” when screwing the LF3100-EW Light Head to prevent damage on the “Protector LF-EW”, “6 Click Selector Ring LF Unit” or “LF3100-EW Light Head Body”.

To keep waterproof property, make sure slowly turn the “switch”/“LF3100-EW Light Head” to prevent O-ring from being damaged/twisted.

Attach accessory as necessary

Attach [Light Shade LF-EW] or [Dome Red Filter LF-EW] if necessary. Refer to respective user manual for detail. [Dome Red Filter LF-EW] is designed to use underwater only. **DO NOT** use it on land.

Operation

Unlock the switch *Reverse procedure of previous “Turn OFF, lock, remove LF3100-EW Light Head” section
Rotate the switch counterclockwise until lightly stopped, turn the Lock Ring clockwise to match ▽ mark with △ mark on the “6xAA Battery Box LF”, then hold it down to unlock the switch.

Always lock the switch at OFF position except for activating the light.

NEVER leave or carry the product with being the switch unlocked.

Doing so may cause unexpected operation of the product resulting in fire/injury/property damage.

ON/OFF , Selecting Power

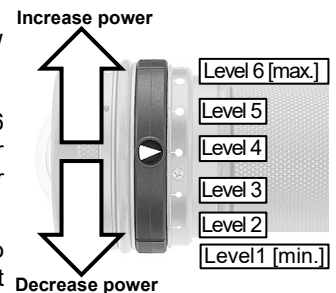
To turn **OFF** the LF3100-EW, slowly turn the switch counterclockwise until it has been lightly stopped. To turn **ON** slowly turn the switch clockwise to get first LOW mode and rotate further until it has been lightly stopped for FULL mode. (LOW is FULL -1.5EV)



Make sure to turn all the way to the either end to turn ON(FULL)/OFF the LF3100-EW. **When using LOW mode, make sure to turn 1/4 rotation further after activating the light.** Any position except OFF/LOW/FULL may possibly cause unstable operation like unexpected ON/OFF or flicking of the LF3100-EW.

To keep waterproof property, make sure slowly turn the “switch”/“LF3100-EW Light Head” to prevent O-ring from being damaged/twisted.

By turning the “Selector Ring LF”(red ring on the light head) further provides 6 different power adjustments at approx.1.0 EV(FULL) or approx. 0.9 EV (LOW) for each click. Size of a dot matching with the white triangle mark on the “Selector Ring LF” stands for output volume; larger dot setting has brighter output.



This product is equipped with “overheat protection” feature to dim light output to minimum automatically on either mode once the inside temperature of the light head exceeds operational limitation, then come back to the originally selected power output when the temperature gets back lower than the limitation. This feature won't be activated under usage within operable circumstance (underwater) and temperature range (0°C~30°C/32°F~86°F).

Should you experience activation of the “overheat protection”, please stop using the product immediately and check if usage circumstance and temperature is within operational limitation. Never exceed functional check 1 minutes operation time in total on land. Please refer 「**Handling precautions**」 section in this manual for detail.

When turning the “Selector Ring LF”, make sure to **lightly hold the ring only with two fingers** to adjust the power setting within 6 different positions

DO NOT

- Hold “Selector Ring LF” too tight
- Hold other than the “Selector Ring LF”
- Turn the “Selector Ring LF” only with fingertips
- Try to turn the “Selector Ring LF” over its operable limit

As these actions could cause accidental flooding or damage on “Protector LF-EW”, “6 Click Selector Ring LF-EW”, “LF3100-EW Light Head”.



Change/Remove Batteries

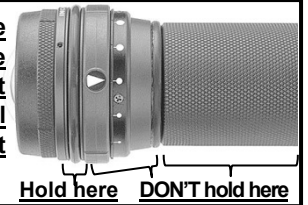
The LF3100-EW must be dry to change/remove batteries in accordance with previous 「Preparation」 section. If even a small amount of water contacts inside “LF3100-EW Light Head” or contacts/terminals for short period of time, there will be corrosion of contact points or cause short circuit, and the LF3100-EW may become inoperable. **Changing/removing batteries is not recommended if the LF3100-EW is not completely dry. However if you have to change/remove battery before drying the LF3100-EW, follow procedure below:**

- 1) Thoroughly wash the LF3100-EW in fresh water and wipe off water drops with an air blower etc. in reference to “Maintenance” section.
- 2) Hold the LF3100-EW with facing up so that no water droplets can enter inside the “LF3100-EW Light Head” or drip on contacts/terminals.
- 3) Slowly unscrew the “LF3100-EW Light Head” with facing it up to prevent water from getting in to take out batteries.

Maintenance**Rinse and Dry Completely**

After dive soak the LF3100-EW in fresh water for several hours (water temperature should be 0°C~+30°C/32°F~86°F) **without any protector/accessory** to remove salt etc. Slowly turn the "switch"/"Selector Ring LF" to remove trapped salt etc. but **DO NOT** turn the "LF3100-EW Light Head" underwater. Then **wipe off water droplets by an air blower etc.** and dry the product completely in shaded and well ventilated area (it may take several days completely dry).

When removing the Protector LF-EW/Filter/Light Shade, **make sure to hold the black O-ring on the "LF3100-EW Light Head Body" instead holding the "6xAA Battery Box LF" or "6 Click Selector Ring LF Unit" to prevent "LF3100-EW Light Head Body" from loosening resulting in accidental flooding or damage on "6 Click Selector Ring LF Unit"/"LF3100-EW Light Head"**.

**Remove Batteries and Check/Clean/Grease Thread Part/O-rings etc.**

Make sure that the LF3100-EW is completely dry, and "Protector LF-W" is attached. Remove batteries in reverse procedure to loading batteries explained in [Preparation] section. Check/clean/grease O-rings, O-ring grooves, O-ring contact surfaces and thread parts of the "LF3100-EW Light Head"/"6xAA Battery Box LF" in reference to separate leaflet [Measures to Prevent Accidental Flooding].

DO NOT screw protector/filter/Light Shade too tight.

Doing so could cause jamming leading to accidental flooding as the "LF3100-EW Light Head Body" could be loosen when removing accessory and/or damage on protector/filter/Light Shade or "6 Click Selector Ring LF Unit", "LF3100-EW Light Head Body".

Storage

Make sure to remove all batteries, then store in shaded and well-ventilated area within temperature range of [0°C~30°C/32°F~86°F].

Avoid storing near chemicals, high ozone, large temperature and humidity fluctuations (even in the temperature range described above) and magnetic fields (TV sets etc.) to prevent the product from possible malfunction and flooding.

Handling precautions:

- **DO NOT** disassemble the "LF3100-EW Light Head Body" to avoid malfunction/flooding.
- Protect from impact shock and vibration, such as vibrating boat deck to avoid accidental damage not only on this product but also on batteries.
- Prevent sands or foreign substances from entering between the "6xAA Battery Box LF", "switch", "Selector Ring LF" and "6 Click Fixing Ring LF" to avoid malfunction/flooding etc.
- **DO NOT** leave the product to extreme heat, such as inside of a sun-heated car or in front of a heater, or in hot direct sunlight, such as a beach or boat deck to avoid malfunction/flooding etc.
- Always hold the "6xAA Battery Box LF" instead holding the Protector/Filter/Light Shade or "LF3100-EW Light Head Body" only to prevent accidental separation of the Protector/Filter/Light Shade leading to drop of this product or loosening of the "LF3100-EW Light Head Body" leading to flooding.
- **This product is not usable on land except function check for short period of time(※)**. When conducting the function check on land, be sure to use heat-safe gloves etc.

Though this product is equipped with an on-board "overheat protection" to dim automatically when inner temperature of the light head exceeds operational limitation, depending on circumstances/air temperature, the "LF3100-EW Light Head" surface and "6xAA Battery Box LF" surface could have heat more than 50°C/122°F causing personal injury like burn/low temperature burn or damage on the product.

※The function check on land can be conducted only when outer surface of the LF3100-EW is below air temperature and **test time should be limited within 1 minutes**. If you need to do consecutive function check, make sure to cool down the unit until its surface gets below air temperature. Working/storage temperature of this product is 0~30°C/32~86°F.

- Follow any other handling instructions/precautions explained in separate paper [Safety precautions].
- When turns OFF this product, **always lock the switch at OFF position**. **Unload all batteries** when not in use including during transportation to avoid accidental malfunction/fire/personal injury resulting from unexpected activation of this product by vibration etc.

Battery

- As batteries have been used, battery voltage gradually decreases making the LF3100-EW intensity gets dark little by little. The rated continuous operable time is the duration to get half brightness comparing to initial performance.
- In general, battery performance will decrease as temperature lowers, voltage will recover when not in use and batteries will slowly discharge over time when not used. And, usable time can greatly vary depending on water temperature and how the batteries are used etc. **We recommend replacing with sufficiently charged batteries even before they have been fully drained or carrying spare LF3100-EW to avoid battery run out in the middle of a dive especially for night dive.**
- Some NiMH batteries have high self-discharge rates and will begin to decrease their performance (intensity/continuous operable time etc.) immediately after charging. So we recommend using those NiMH batteries within one day after charging.
- Also battery performance will decrease gradually with repeated charging and discharging, even within the possible number of charge-discharge cycles stated on the product package. When you observe less intensity/continuous operable time even with fully-charged (or refreshed) batteries, we recommend to change all batteries.
- Together with these guidelines, be sure to read and understand [Safety Precautions] and any instructions that come with your batteries(rechargeable batteries/battery charger) and comply with any battery manufacturer requirements to ensure proper operation.

Options

- Single Light Holder LF
Optional product to attach single INON LF series LED flashlight including this product on “[YS Adapter] compatible arm”. Especially for handy and compact camera system set-up with INON [Shoe Base] or [Grip Base D4].
- Strobe Light Holder LF
Optional product to attach one or two INON LF series LED flashlight on compatible lighting arm together with INON [S-2000], [D-2000] or [Z-240] etc.
This product is attached on “[YS Adapter] compatible arm” including [Shoe Base]/[Grip Base D4] etc. through [Z Joint]. Combination with the [Z Adapter II]/[Z Adapter] enables to attach on INON “Arm II System” or “Float Arm System” with [Clamp III].
- Single Light Holder LF for Tripod
Optional product to attach one INON LF series LED flashlight on a tripod with 1/4-20UNC standard tripod screw hole. Usable for off camera lighting applications like backlighting or fish-lamp etc.
- Z Joint
Optional product to attach [Strobe Light Holder LF] on “[YS Adapter] compatible arm”.
- Z Adapter II
Optional product to attach [Strobe Light Holder LF] on INON “Arm II System” or “Float Arm System” with [Clamp III].
The ball-joint is made from metal to firmly fix strobe position by lightly clamp the [Clamp III].
- Spare O-ring Set (LF)
Set of two yellow oil-bearing O-rings.
Refer to [Measures to Prevent Accidental Flooding] for detail.
- INON Grease
③ in the product image.
- Dome Red Filter LF-EW
Light Shade LF-EW
④, ⑤ in the product image. Refer to respective user manual for detail.
- Selector Ring LF
- 6 Click Fixing Ring LF (incl. fixing screws)
⑥, ⑦ (including 4x fixing screws) in the product image. Please refer to separate manual [Maintenance of Selector Ring LF Unit].
- LF3100-EW Light Head
- LF1400-S Light Head
- Optional Light Head for INON LF series [LF1400-S] which produces powerful 1400 lumen with 30 degree coverage. This Light Head is interchangeable with the original [LF3100-EW Light Head] for other application.
- LF2700-W Light Head
Optional Light Head for INON LF series [LF2700-W] which produces powerful 2700 lumen with 85 degree coverage for serious lighting device for photography/videography. This Light Head is interchangeable with the original [LF3100-EW Light Head] for other application.
- 6xAA Battery Cartridge LF

**Terminals/Contacts: Maintenance**

With the increased capacity, improved performance, and longer lifespan of different types of rechargeable batteries, it is possible for the performance of the LF3100-EW to become unstable (the LF3100-EW doesn't turn ON or flickers) due to bad contacts, caused by dirt or oxidation of the terminal surface of the rechargeable battery itself in addition to [LF3100-EW Light Head terminal/contact]/[6xAA Battery Cartridge LF terminal/contact]/[6xAA Battery Box LF terminal/contact]. For rechargeable battery terminals, it is difficult to distinguish through visual inspection of the terminal surface. As some rechargeable batteries can cause the above problems immediately after purchase because the terminal surface has already been oxidized, it is recommended to inspect and conduct maintenance periodically on the rechargeable battery terminals and LF3100-EW terminals/contacts, by following the procedures described below.

● Battery Terminals

Conduct following maintenance within limitations/precautions described in battery instructions etc. if maintenance is necessary considering terminal conditions/performance of this product.

- 1) Wipe each terminal surface with a dry soft cloth/clean cotton swab (or similar) to remove any oil or similar residue.
- 2) If above step does not fully clean the terminal, dap a small amount of [silver polish] on a cotton swab (or similar) and wipe terminal surface until fully clean. Then clean off any [silver polish] residue with a clean swab.



● **“6xAA Battery Cartridge LF” Positive(+) Terminal**

● **“6xAA Battery Cartridge LF” Contacts**

● **“LF3100-EW Light Head” Terminal/Contacts**

● **“6xAA Battery Box LF” Contacts**

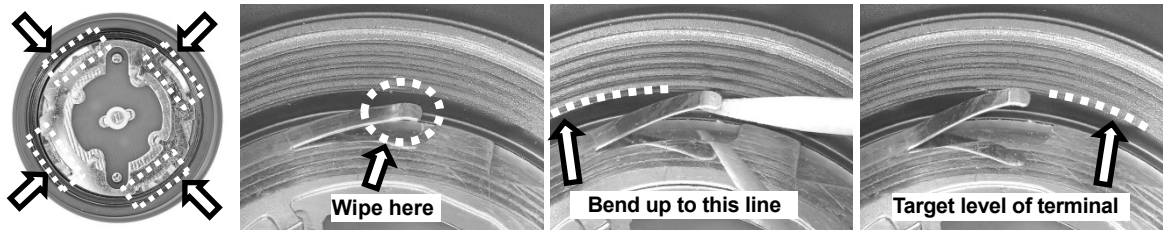
Clean up surface of contacts/terminals with clean cotton swab to wipe off any dirt/residual oil considering contacts/ terminals condition/ performance of this product.

“6xAA Battery Box LF” contact has gold coating so maintenance should not be necessary under normal circumstances. If you observe foreign substances or water droplet etc. clean the contact with clean cotton swab as in the right image



If above step fails to recover expected performance, conduct following maintenance on terminals (4 points) of the “LF3100-EW Light Head”.

- Dap a small amount of 『silver polish』 on a cotton swab (or similar) and wipe terminal surfaces until fully clean. Then clean off any 『silver polish』 residue with a clean swab.
- Slowly bend up all terminals by a bamboo stick etc. as shown in below images.



● **“Switch” Contact (Not mandatory)**

Maintenance of the switch contact may be necessary only for high frequent users when significant blinking is observed during switch operation. In this case contact your purchasing dealer for servicing.

Maintenance of Selector Ring LF Unit

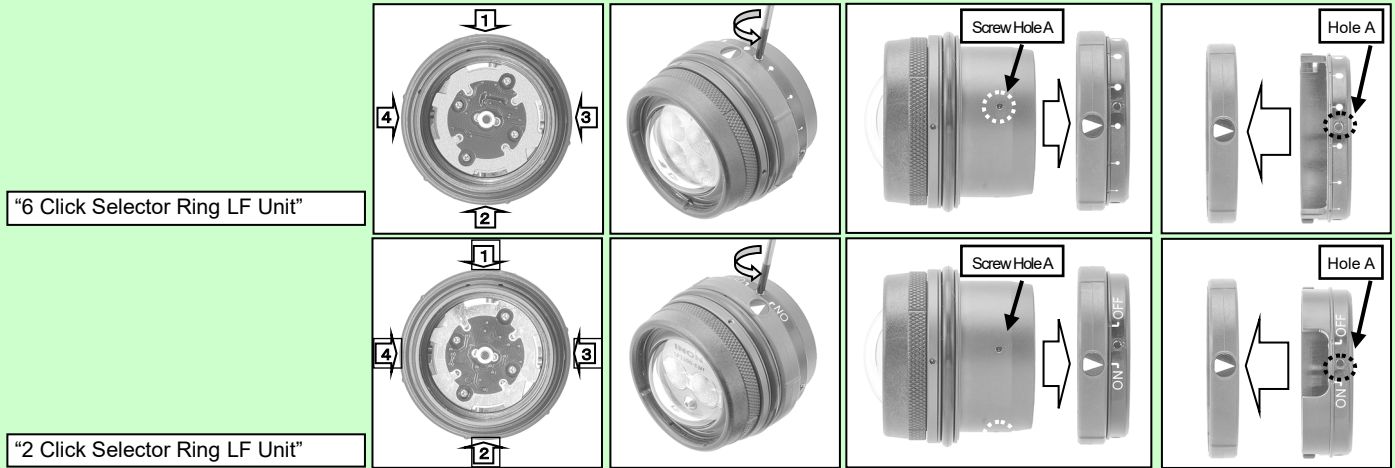
It is required to conduct maintenance of the "Selector Ring LF" following below procedures if the ring becomes too tight/loose.

- Step① Remove "Selector Ring LF Unit" to separate "Selector Ring LF" and "Fixing Ring LF".
- Step② Clean, grease the "Selector Ring LF" and "Fixing Ring LF". Replace the "Fixing Ring LF" as necessary.
- Step③ Reassemble "Selector Ring LF" and "Fixing Ring LF" then attach on the "Light Head Body".

Please **DO NOT** conduct this maintenance unless you have fully confidence on this maintenance properly as per instructed in this manual. Otherwise, please contact your purchasing dealer. **INON INC. assumes NO WARRANTY/LIABILITY for any damage caused by this maintenance.**

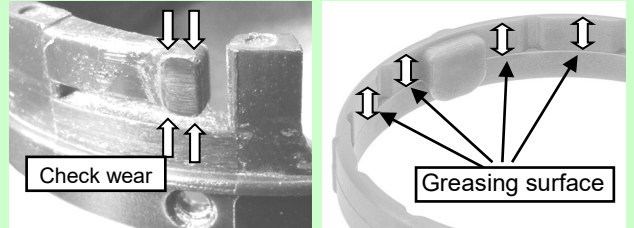
Step① Unscrew 4 x fixing screws on the "Selector Ring LF Unit" little by little following order shown in the below top-left image to remove the ring. Then separate "Selector Ring LF" and "Fixing Ring LF".

Check a hole (Hole A) located between two stickers on the "Fixing Ring LF" and the screw hole (Screw Hole A) which accepts a screw from the 「Hole A」.



Step ② Clean to remove old grease, sands/iron sands from the "Selector Ring LF" and "Fixing Ring LF". Then check the protruded part on the "Fixing Ring LF" if it gets worn.

It may require replacing the "Fixing Ring LF" if the protruded part gets worn as per right image and the "Selector Ring LF" is loose when turning.

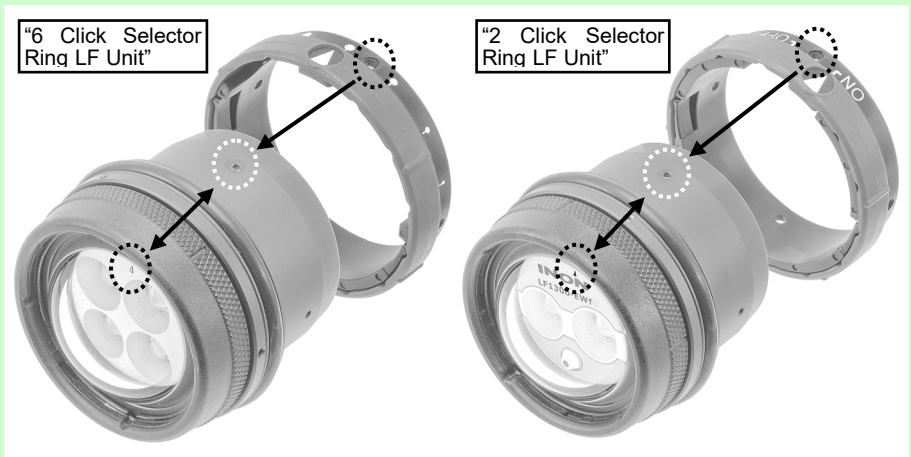


Type of "Selector Ring LF Unit"	Necessary part
6 Click Selector Ring LF Unit	6 Click Fixing Ring (incl. fixing screw)
2 Click Selector Ring LF Unit	2 Click Fixing Ring (incl. fixing screw)

Apply small amount of packaged grease (about size of a piece of rice) on the upper half of the "Selector Ring LF" inner surface shown on above right image all around evenly and uniformly.

Step ③ Take reverse procedure of Step ① to assemble the "Selector Ring LF" and "Fixing Ring LF" then screw them on the "Light Head Body".

- Reassemble the "Selector Ring LF" and "Fixing Ring LF" so that the triangle arrow on the "Selector Ring LF" points 「Hole A」 on the "Fixing Ring LF".
- Align "Selector Ring LF Unit" 「Hole A」 and "Light Head Body" 「Screw Hole A」 then fasten them.
(The 「Screw Hole A」 is located close to small 「△ mark」 on the light emitting surface of the "Light Head Body".
(Make sure to get the screw in the 「Screw Hole A」 or the product won't work properly.)
- Tighten four screws evenly little by little taking reverse procedure. Stop tightening when you feel first stop. **DO NOT** tighten too tight to prevent deformation of the "Fixing Ring LF" causing tough operation when you turn the "Selector Ring LF".



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As of September 2017