

# INON

LED Flashlight  
**LE series**



# Technology

Light quality oriented LE series LED flashlight supports photography/videography not only as a handheld light. The LE series carries Cree high intensity power LED producing bright yet even natural wide beam. The INON LE series provides you sophisticated lighting with reliable water-proof property and durability supported by time-proven INON underwater housing and strobe technology.

## High Power & High Quality LED Flashlight

The LE series is equipped with Cree high intensity power LED in its compact hand-held body and produces amazing high power and beam coverage by boost up the module effectively. When we look into white LED, some of them are biased towards green or blue. So we carefully check and select specific LED which carries same color temperature and color tone as natural light, for INON LE series LED flashlights to use as lighting device for photography/videography. General handy lighting device delivers light with brightest center spot and concentric darker layers creating uneven exposure if we use such a product for photography/videography. The LE series LED flashlight has natural beam characteristic where the device produces even and wide center part with smooth gradational layers which is ideal for photography/videography.



Cree High-Power LED



LE700-W Beam Pattern

## Wide Selection of Accessory

Wide variety of optional accessories is available including different types of light holder products "Single", "Double" and capacious "Quad" to attach LE series LED flashlight on a camera/camcorder. Using two or four LE series products supports not only producing more light but also supporting sophisticated control of light amount and angle of coverage by selecting which one to use and using filters.



Single Light Holder LE



Quad Light Holder LE



Strobe Light Holder LE

## High Quality Aluminum Alloy Body

The light head and battery box is made from seawater resistant aluminum alloy as same as INON underwater housing and arm system to combine super rigidity and high quality.



## Reliable and Time-Proven Double O-ring

The battery loading part and the switch is constructed separately. The switch is simple yet reliable to support faultless ON/OFF operation and has a stopper to prevent accidental flooding by loosening the switch too much. Both of the battery loading part and the switch carries double O-ring structure with oil-migrant O-ring which is used for INON underwater strobe as well to minimize accidental flooding and support 120m depth rating\*.



Double oil-migrant O-ring



Rear switch with a stopper

\* Functionality has been tested up to 84m depth by rebreather diving.

## Innovative Electrical Contact Design

Original "phosphor-bronze" plate spring contact is equipped on a light head to keep reliable contact with a battery box, and the battery box contact further fits gold coating. So maintenance of the electrical contacts is not necessary under standard usage to ensure you with reliable operation.



Phosphor-bronze plate spring



Gold coated electrical contact

## Light Filter Controls Light

A filter of LE series LED flashlight is an optical grade acrylic fly-eye lens carrying high transmittance. The fly-eye lens consists of many of small lenses as like compound multifaceted eyes of insects and diffuses light source to illuminate a subject evenly. The advantage of the fly-eye lens over general translucent diffuser panel for a lighting device is its high diffusional efficiency to widen beam coverage with less attenuation.

The "W40° Filter LE" and "W50° Filter LE" has two laminated fly-eye lenses with hollow construction to effectively diffuse light even underwater.

The "Red Filter LE" provides red light not stimulating shy subject so ideal for observing underwater life like spawning in dusk.

The "Color Filter LE Set" is a package of five different color filters to control color tone of combined LED flashlight. The set includes "Pink Filter LE" and "Orange Filter LE" to change color tone to accommodate to camera's characteristic when using LE series LED flashlight as primary lighting source for photography, "W50° Pink Filter LE" and "W50° Orange Filter LE" to provide wider coverage and "W50° Red Filter LE" for marine life observation.

\* "Red Filter LE" and "Color Filter LE Set" is underwater use only.



W50° Filter LE



Red Filter LE



Color Filter LE Set

# LE700-W

700 Lumen 75° Beam



FRONT VIEW

## Flat/Wide Photographic Quality Underwater Flashlight

- Ample features as primary lighting source for photography/videography with powerful 700 lumen and wide 75 degree coverage as well as diving light to illuminate wide area for night or cave diving.
- The LE700-W carries specially designed reflector to produce wide and even coverage with natural beam pattern where light is gently diffused around covered area. Standard accessories of the LE700-W include "Pink Filter LE" and "Orange Filter LE" to change color tone to suit to combined camera, shooting condition and personal preference, which is ideal for photography and videography with its light quality.
- The LE700-W comes with "Red Filter LE" as well not to stimulate shy underwater life by changing light beam color to red.
- Operated by easily obtainable 3 x AA size batteries. Compatible rechargeable battery like "eneloop pro" etc. gives you approx. 75 minutes continuous operation underwater\* with minimal running cost.
- Interchangeable Light Head design enables you to use LE700-S/LE350 Light Head depending on usage and supports possible upgrading to future model as well.

**【Standard Accessory】**

Red Filter LE, Pink Filter LE, Orange Filter LE, Hand Strap, INON Grease



# LE700-S

700 Lumen 30° Beam



FRONT VIEW

## Multipurpose Powerful Dive Light Even for Macro Shooting

- Powerful 700 lumen and 30 degree coverage is convenient as a dive light and its even yet strong beam is best suit for macro shooting as well. Versatile multipurpose flashlight for various underwater scenes.
- Packaged "W50" Filter LE" effectively increases the beam coverage up to approx. 60 degree thanks to its fly-eye lens structure. Two options on beam coverage are useful for different situation together with packaged "Color Filter LE Set" which changes color tone of the combined LED flashlight.
- The LE700-S comes with "Red Filter LE" not to stimulate shy underwater life by changing light beam color to red.
- Operated by easily obtainable 3 x AA size batteries. Compatible rechargeable battery like "eneloop pro" etc. gives you approx. 75 minutes continuous operation underwater\* with minimal running cost.
- Interchangeable Light Head design enables you to use LE700-W/LE350 Light Head depending on usage and supports possible upgrading to future model as well.

**【Standard Accessory】**

Red Filter LE, Pink Filter LE, Orange Filter LE, W50° Filter LE, W50° Pink Filter LE, W50° Orange Filter LE, Hand Strap, INON Grease



# LE350

350 Lumen 30° Beam



FRONT VIEW

## Reliable and Durable Dive/Topside Light for Professionals

- Powerful 350 lumen and 30 degree coverage. Bright beam supports you in night diving and usable as a pointer underwater. Optional filter further utilize the LE350 as photographic lighting device. The LE350 is useful on land as well to use in wide variety of outdoor activity in ocean, river or mountain.
- Operated by easily obtainable 3 x AA size batteries. Compatible rechargeable battery like "eneloop pro" etc. gives you approx. 165 minutes continuous operation underwater or 155 minutes air\* with low running cost to benefit you as reliable long time operable handy light.
- Packaged "W50" Filter LE" effectively increases the beam coverage up to approx. 60 degree thanks to its fly-eye lens structure. Beam coverage options are useful for different situations such as a focus light or assisting light source for macro shooting together with optional "Color Filter LE Set" which changes color tone of the LE series product.
- The LE350 comes with "Red Filter LE" not to stimulate shy underwater life by changing light beam color to red.
- Interchangeable Light Head design enables you to use LE700-W/LE7000-S Light Head depending on usage and supports possible upgrading to future model as well.

**【Standard Accessory】**

Red Filter LE, W50° Filter LE, Hand Strap, INON Grease



\* Average time to get half brightness when continuously turn ON the product with eneloop pro batteries

# LE Series Specification

	LE700-W	LE700-S	LE350
LED Components	High-intensity Power LED (CREE XM-L "T6")	High-intensity Power LED (CREE XM-L "T6")	High-intensity Power LED (CREE XM-L "T6")
Luminous Flux *2*3	700 lumen	700 lumen	350 lumen
Coverage	75° [without a filter] 75° [with Filter LE including red/pink/orange]	30° [without a filter] 30° [with Filter LE including red/pink/orange] 60° [with W50° filter LE] 60° [with W50° filter LE including pink/orange]	30° [without a filter] 30° [with Red Filter LE] 60° [with W50° filter LE]
Color Temperature *3	approx. 6,000K	approx. 6,000K	approx. 6,000K
Usable Environment	Underwater	Underwater	Underwater / air
Operable Duration (Underwater) *4*6	approx. 60 minutes ["eneloop" battery] approx. 75 minutes ["eneloop pro" battery] approx. 80 minutes [Alkaline battery] approx. 125 minutes [Lithium battery(1.5V)]	approx. 60 minutes ["eneloop" battery] approx. 75 minutes ["eneloop pro" battery] approx. 80 minutes [Alkaline battery] approx. 125 minutes [Lithium battery(1.5V)]	approx. 130 minutes ["eneloop" battery] approx. 165 minutes ["eneloop pro" battery] approx. 150 minutes [Alkaline battery] approx. 185 minutes [Lithium battery(1.5V)]
Operable Duration (Air) *5*6	—	—	approx. 125 minutes ["eneloop" battery] approx. 155 minutes ["eneloop pro" battery] approx. 150 minutes [Alkaline battery] approx. 180 minutes [Lithium battery(1.5V)]
Compatible Battery	AA "eneloop"/"eneloop pro" battery x3 *7 AA NiMH[good quality] x3 *8 AA Alkaline battery x3 AA Lithium battery(1.5V) x3	AA "eneloop"/"eneloop pro" battery x3 *7 AA NiMH[good quality] x3 *8 AA Alkaline battery x3 AA Lithium battery(1.5V) x3	AA "eneloop"/"eneloop pro" battery x3 *7 AA NiMH[good quality] x3 *8 AA Alkaline battery x3 AA Lithium battery(1.5V) x3
Depth Rating *9	120m / 394ft	120m / 394ft	120m / 394ft
Size, Weight *10	Max.dia. 33.7mm x 193.6mm / 1.3in x 7.6in 217.5g / 7.7oz [air], approx. 132g / 4.6oz [underwater]	Max.dia. 33.7mm x 198.0mm / 1.3in x 7.8in 217g / 7.7oz [air], approx. 128g / 4.5oz [underwater]	Max.dia. 33.7mm x 197.5mm / 1.3in x 7.8in 212.5g / 7.5oz [air], approx. 125g / 4.4oz [underwater]
Working/Storage Temperature	±0~+30°C / 32~86°F	±0~+30°C / 32~86°F	±0~+30°C / 32~86°F
LED Life Time	approx. 10,000 hours	approx. 10,000 hours	approx. 10,000 hours
Material, Finishing	Corrosion resistant aluminum / rigid almite, PBT, Optical glass etc.	Corrosion resistant aluminum / rigid almite, PBT, Optical glass etc.	Corrosion resistant aluminum / rigid almite, PBT, Optical glass etc.
Standard Accessory	Red Filter LE, Pink Filter LE, Orange Filter LE, Hand Strap, INON Grease	Red Filter LE, Pink Filter LE, Orange Filter LE, W50° Filter LE, W50° Pink Filter LE, W50° Orange Filter LE, Hand Strap, INON Grease	Red Filter LE, W50° Filter LE, Hand Strap, INON Grease

\*1 Subject to change without prior notice.

\*2 Nominal value calculated from LED manufacture specification sheet.

\*3 Due to individual variability of LED, drive circuit or battery etc., luminous flux, color temperature or intensity may vary within rated specification.

\*4 Average time to get half brightness when continuously turn ON the product with below listed batteries on underwater (approx. 25°C / 77°F).

- "eneloop" battery : SANYO "eneloop", HR-3UTGB, 1.2V, Min.1,900mAh
- "eneloop pro" battery : SANYO "eneloop pro", HR-3UWX, 1.2V, Min.2,400mAh
- Alkaline battery : Panasonic "EVOLTA" LR6(EJ), 1.5V
- Lithium battery (1.5V) : Energizer e2 LITHIUM, FR6, 1.5V

\*5 Average time to get half brightness when continuously turn ON the product with below listed batteries on land (approx. 20°C / 68°F).

- "eneloop" battery : SANYO "eneloop", HR-3UTGB, 1.2V, Min.1,900mAh
- "eneloop pro" battery : SANYO "eneloop pro", HR-3UWX, 1.2V, Min.2,400mAh
- Alkaline battery : Panasonic "EVOLTA" LR6(EJ), 1.5V
- Lithium battery (1.5V) : Energizer e2 LITHIUM, FR6, 1.5V

\*6 Actual measured data by INON. The value may vary depending on product individual variability, battery manufacture/model, test condition.

\*7 "New generation" NiMH batteries carrying less self-discharging and heat generating characteristic comparing to "conventional" or "high-capacity" NiMH including listed batteries as below confirmed compatible by INON INC. as same as recommended [Sanyo "eneloop"/"eneloop pro" battery (HR-3UTG/HR-3UTGA/HR-3UTGB/HR-3UWX)].

- SANYO Electric Co.,Ltd - Model name:eneloop [recommended] / Model code:HR-3UTG,HR-3UTGA,HR-3UTGB
- SANYO Electric Co.,Ltd - Model name:eneloop pro [recommended] / Model code:HR-3UWX
- Sony Corp. - Model name:Cycle Energy Blue / Model cod:NH-AA-2BKA,NH-AA-4BKA
- Panasonic Corporation - Model name:Rechargeable Ni-MH (AA) / Model code:HHR-3MPS
- Maha Energy Corporation - Model name:IMEDION / Model code:MHRAA14
- GP Batteries International Ltd - Model name:ReCyko+ / Model code:210AAHCBE
- ANSMANN AG - Model name:maxE / Model code:5030991, 5030992, 5035052
- Electrochem Automation Inc. - Model name:NEXcell energyON / Model code:n/a (AA 2000mAh)

\*8 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.

\*9 Without operating the "Switch". INON has confirmed depth rating 84m/276ft including switch operation.

\*10 Including 3 x AA "eneloop" batteries.

## LE Series Accessories

### Single Light Holder LE

An adapter to attach single INON LE series LED flashlight on "YS type arm head". Especially for handy and compact camera system set-up with INON "Shoe Base" or "Grip Base D4".



### Double Light Holder LE

An adapter to attach two INON LE series LED flashlights on "YS type arm head" via optional INON "Z Joint". Combination with ball-joint type adapter "Z Adapter MV" or "Z Adapter II" is supported as well.



### Quad Light Holder LE

An adapter to attach two or four INON LE series LED flashlights on "YS type arm head" via optional INON "Z Joint". Combination with "Z Adapter MV" or "Z Adapter II" is supported as well.



### Strobe Light Holder LE

Optional product to attach one or two INON LE series LED flashlight on compatible lighting arm together with INON Z-240/D-2000/S-2000 strobe to use with "Z Joint", "Z Adapter MV" / "Z Adapter II".



### Bar Mount

An adapter to attach INON LE series LED flashlight on a bar (φ22.2mm~φ31.8mm) via "Single Light Holder LE" or "Double Light Holder LE" + "Z Joint".



### Light Case LE 3AA

Dedicated carrying case for INON LE series LED flashlights. The case has two double Velcro straps to provide less limitation on installing location like on a belt/hose etc.



### Color Filter LE Set

A package of five different color filters sole use for underwater to change LED light color tone to accommodate to camera characteristic. The set includes "Pink Filter LE" / "Orange Filter LE" to change color tone, "W50° Pink Filter LE" / "W50° Orange Filter LE" further provide wider coverage and "W50° Red Filter LE" for marine life observation.

