



LX25 Lithium LED Corded Primary Light User Manual

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Product Description

The LX25 Lithium Corded LED Primary Light brings a new level of brightness to the LX family of lights. Utilizing the latest in microprocessor technology along with the CREE XM-L2 Cool White LED chip and a new reflector, the LX25 combines maximum brightness with maximum efficiency. With 30,000 LUX at approximately

6,500 Kelvin, the LX25's brightness out does most other corded primary lights on the market today.

The LX25 Lithium's 6-degree concentrated light beam, reflecting off a polished metal reflector, punches through the water lighting the way with a clean center spot. Lighting your way through the darkness has never been so bright. Its compact design and provided quick release soft hand mount make it ideal for any type of diving requiring a good light source as well as travelling where weight matters.

Built around the XM-L2 Cool White LED chip that maximizes output and efficiency, the LX25 Lithium has three modes; high power, low power, and strobe. Using our lithium battery, the LX25 Lithium burns for 7 hours on high power, 11 hours on low power, and 36 hours in strobe mode. Making sure each light meets the high standards it was designed under, every light is individually tested and the average LUX is measured at one meter using a Konica Minolta Chroma Meter.



LX25 Lithium Standard Lid



LX25 Lithium 70 Degree Lid

An integrated microprocessor control unit monitors battery voltage to keep the light operating at its peak efficiency. As battery voltage drops, light output steps down eliminating the possibility of suddenly being left in the dark due to a dead battery. The light alerts the diver of this step down in light output by a series of flashes, after which, the light produces another 30-minutes of usable light. The lithium battery with included Smart Charger complies with TSA travel restrictions and is safe for airline travel.

Activated using a rotary switch on the light head, the LX25 Lithium allows divers the ability to mount the battery canister anywhere on their equipment configuration, eliminating the need to be able to reach the canister to activate a switch.

With a 500-foot (152 m) depth rating and no switch boot on the canister, the LX25 Lithium excels under all the rigors of diving providing proven protection against flooding.

Providing reliability, durability, and a light output brightness few other lights can boast, the LX25 Lithium is the next generation of technology-driven LED lights that will take your diving to new levels whether exploring caves, penetrating wrecks, or night diving on a reef.

NOTE: Do NOT plug the battery into the light head while the battery is not in the canister. Even with the light off, plugging the light in backwards with the polarity reversed can damage the light. Always use a fresh, properly charged battery to achieve rated burn times.



Tech Specs

- Light output: 30,000 LUX @ 6500 Kelvin
- Beam angle: 6-degree spot
- Light color temperature: Approximately 6500 Kelvin
- Battery:
 - 14.8 volt, 6.8 amp lithium rechargeable battery
 - 100.64 watt hours, which meets TSA requirements for safe travel (https://www.faa.gov/about/office_org/headquarters_offices/ash/ash_programs/hazmat/passenger_info/media/faa_airline_passengers_and_batteries.pdf)
 - Battery is o-ring sealed into the canister to prevent moisture from contacting the cells (the battery is not removed when the light is stored)
- Burn time
 - High power: 7 hours at 30,000 LUX
 - Low power: 11 hours at 13,000 LUX
 - Strobe: 36 hours at 20,000 LUX
- Charging time: Up to 5 hours from complete discharge
- 30-minute burn time after light output step down from full power
- Strobe cycle time: 100ms on then 900ms off
- Mount:
 - Light head: Quick release soft hand mount
 - Canister: Quick belt mount
- Activation: Rotary magnetic on/off switch
- Size:
 - Light head: 2.7 in. (6.85cm) length, 2 in. (5.0cm) diameter
 - Canister: 9 in. (22.88cm) height, 2.6 in. (6.6cm) diameter
- Weight: 3.8 lbs. (1.72kg)
- Buoyancy: 1.25 lbs. (0.56kg) negative in water
- Depth rating: 500 feet (152m)
- LED chip: CREE XM-L2 Cool White
- Smart Charger:

- Input voltage: Automatically adjusts to 110/220 volts AC and 50/60Hz frequency
- Indicators: Red and green LED
- Plugs: Two-prong banana plug
- Charging time: Up to 6 hours from complete discharge
- Compliance: RoHS compliant
- Made in the USA



Important WARNINGS

- Read this manual carefully before diving with the LX25 Lithium Corded LED Primary Light. You should fully understand how this dive light works and that you are proficient in its use prior to diving.
- The LX25 Lithium Corded LED Primary Light is an electronic device and electronic devices can fail. NEVER dive this light without two back up lights.
- The battery is o-ring sealed in the canister with sealed connectors. Do not try to remove the battery. The light is stored with the battery in the canister.
- Do not plug the light head into the battery when not in use. If plugged in backwards, the reversed polarity can potentially destroy the electronics board.
- Before using your LX25 Lithium Corded LED Primary Light it is extremely important that you read and understand each warning, as well as warnings and cautions that appear throughout the manual. Failure to do so could result in damage to or loss of equipment, serious personal injury, or death.
- Before diving, you should have the proper training from a qualified instructor and obtain certification from a recognized training agency.



Charging and maintaining the battery

The best way to keep your battery in good shape so that it performs well on every dive is to follow the battery maintenance procedures below. Before using your light, make sure that the battery is fully charged.

To charge the battery:

1. Plug the red connector on the Smart Charger into the red (+) battery receptacle on the battery pack.
2. Plug the black connector on the Smart Charger into the black (—) battery receptacle on the battery back.
3. Plug the Smart Charger into a wall outlet.

Charging will not begin if the Smart Charger detects a missing battery or reversed connections.

4. Allow the battery to fully charge.

It can take up to five hours for the battery to charge. The red LED on the charger indicates that the battery is charging. A green LED indicates when the battery is fully charged.

5. Disconnect the battery once it is fully charged and unplug the Smart Charger from the wall outlet.

Maintaining the battery

- Store the battery at room temperature and away from moisture.
- Store the battery in a 30-50% charge condition.
- The battery is o-ring sealed in the canister to prevent any moisture from contacting the cells and cannot be removed. The battery does not have to be removed when storing the light.
- Before every use, charge the battery completely.

WARNING: Do not plug the light head into battery when not in use. If it is accidentally plugged in backwards, the reversed polarity can potentially destroy the electronics board.



Adjusting the hand mount

The hand mount can be mounted on your left or right hand. It attaches to the hand using the elastic strap. The open end of the hand mount is for the thumb and helps to keep the light secure and in place on your hand while diving.

To adjust the hand mount:

1. Slide your hand into the hand mount placing your thumb through the open end on the side of the hand mount.
2. Position the hand mount so that it is secure and comfortable on your hand.





Attaching the LX25 Lithium to the hand mount

The LX25 Lithium can be attached to the hand mount with it on or off of your hand. The light mount is spring-loaded to hold the light in place, and makes it easy to attach and remove the light.

To attach the LX25 Lithium to the hand mount on your RIGHT hand:

1. Line up the clip on the base of the LX25 Lithium with the receiver on the hand mount.
2. Slip the front of the clip on the LX25 Lithium under the front bar of the receiver on the hand mount.
3. Push the LX25 Lithium forward and then push down on the LX25 Lithium until it snaps into place in the receiver.



To attach the LX25 Lithium to the hand mount on your LEFT hand:

1. Unscrew the receiver from the hand mount.
2. Turn it 180 degrees and reattach it to the hand mount.
3. Follow the instructions above for attaching the LX25 Lithium to the hand mount.



Attaching the lid to the canister

To prevent flooding of the light, the sealing o-ring on the canister lid must be in good condition and installed correctly. The canister lid must be firmly attached to the canister using the locking latches on the side of the canister.

To attach the canister lid:

1. Inspect the o-ring for any dirt or grease and clean the o-ring if necessary with soap and water.

There is no need to lubricate the o-ring. Lubrication attracts dirt that prevents proper sealing.

2. Line up the power plugs on the lid with the positive (+) and negative (-) receptacles on the top of the battery.
3. Insert the power plugs into the corresponding colored receptacles on the battery as you line up the canister lid with the top of the canister.



Make sure the o-ring rests on the top of the canister and the lid latch attachments align with the locking latches.



4. Close the latches simultaneously to evenly seal the o-ring and lock the lid in place.



Mounting the canister

With the on/off activation of the light being on the light head, you can mount the canister to any location you desire on your diving system configuration. You don't need to be able to reach a switch on the canister.

The LX25 Lithium comes with the Quick Belt Mount for mounting the light to the waist belt of your harness or backplate.

To mount the canister:

1. Remove the Quick Mount elastic band from the canister by pulling the band over the bottom of the canister.
2. Slip the elastic band around your waist belt or other strap on your rig.
3. Stretch the elastic band back over the bottom of the canister.

The light is securely placed on your waist belt or other location.





Turning the LX25 Lithium on and off

The LX25 Lithium has a rotary magnetic on/off switch that can easily be used underwater with gloves.

To turn the light on or off:

1. Rotate the magnetic switch to the right to turn the light on.
2. Rotate the magnetic switch to the left to turn the light off.

To switch the LX25 Lithium to low power mode:

1. Rotate the magnetic switch on, off, and back on within three seconds.
2. Rotate the magnetic switch off to turn the light off or to off for three seconds and then back on for full power mode.

To switch the LX25 Lithium to strobe mode:

1. Rotate the magnetic switch on, off, and back on two times within three seconds.
2. Rotate the magnetic switch off to turn the light off or to off for three seconds and then back on for full power mode.



Care, Maintenance, and Storage

With proper care and service, your LX25 Lithium can provide you with years of safe, enjoyable use. Without proper care, your LX25 Lithium can become damaged and be either unserviceable or dangerous to use.

- Prior to taking the light underwater, ensure that all o-rings and latches are secure. Thoroughly inspecting your light prior to the dive minimizes the risk of flooding the light. Most floods are caused by missing or damaged o-rings or unlocked latches.
- Inspect the light head and canister for any water leakage or other damage.
- Always rinse the light and hand mount after use in saltwater.
- The canister lid can be rotated 180 degrees and reinstalled with the power plugs oriented into the blank holes in the battery lid for storage and transportation. This prevents accidental activation of the light.
- Store the light in a cool and dry environment.
- Always charge the batteries following the instructions provided.

Dealing with a flooded light head

If your light head floods, there are a few things you need to do.

- Do not continue to use the light.
- Turn the light off and disconnect the light head from the battery pack. **DO NOT TAKE THE LIGHT APART.**
- Arrange with your dealer to return the light to Dive Rite for repair. Flooding damage cannot be fixed or corrected in the field. Attempting to repair the light in the field voids your warranty.



Warranty Information

The Dive Rite LX25 Lithium carries a limited lifetime warranty. Dive Rite will — at its sole discretion — repair or replace a LX25 Lithium proved to be damaged by faulty manufacture or material, at no cost, for the lifetime of the LX25 Lithium.

This warranty applies only to the original retail purchaser. It does not cover commercial or rental use, nor does it extend to units purchased from other than an authorized Dive Rite dealer.

If we deem a LX25 Lithium component to be beyond repair — through no fault of the user — then, and only then, will we replace the affected component(s).

To make a claim under this warranty, the owner must have registered his/her warranty using Dive Rite's website (www.diverite.com). All warranty repairs (international or domestic) *must* be accompanied by a copy of the purchase receipt. For warranty repairs (international or domestic) the product must be returned to the *store* where the item was purchased or directly to Dive Rite. A Return Authorization must be obtained by calling Dive Rite corporate offices (386-752-1087) to send items to Dive Rite. No warranty service will be performed for other than registered owners. **Note:** Local dealers and distributors are not responsible for service of items purchased from unauthorized dealers, Internet dealers, or dealers from other territories.

This warranty becomes void if the LX25 Lithium components are damaged by anything other than normal recreational diving use, or if they have been serviced or repaired by other than authorized Dive Rite dealers.

Repairs made under this warranty will not extend the warranty period.

All further claims, especially for damage after diving accidents, are excluded from coverage under this warranty.

Dive Rite has no obligation to honor any extension of this warranty.

This warranty is in lieu of all other warranties, expressed or implied. No other person or representative is authorized to assume for Dive Rite any other liability in connection with the sale of this product.

Activating and Utilizing your Warranty

1. To activate your warranty, you must register your LX25 Lithium within 30 days of purchase through our online product warranty registration. This is located within our website at www.diverite.com.
2. Proof of original ownership is provided by your purchase receipt and should be retained for your records.
3. If you intend to receive your service directly from Dive Rite, you must first obtain a Return Merchandise Authorization (RMA) number by calling Dive Rite at 386-752- 1087. Your RMA number is to be printed on the address label of your package.