



**Flashlights Unlimited  
Xenopus Electronix  
Deep Purple 410 Standard  
Inspection Lantern  
Operations Guide**

**IMPORTANT SAFETY INFORMATION !**  
**READ AND COMPLY BEFORE USING !**

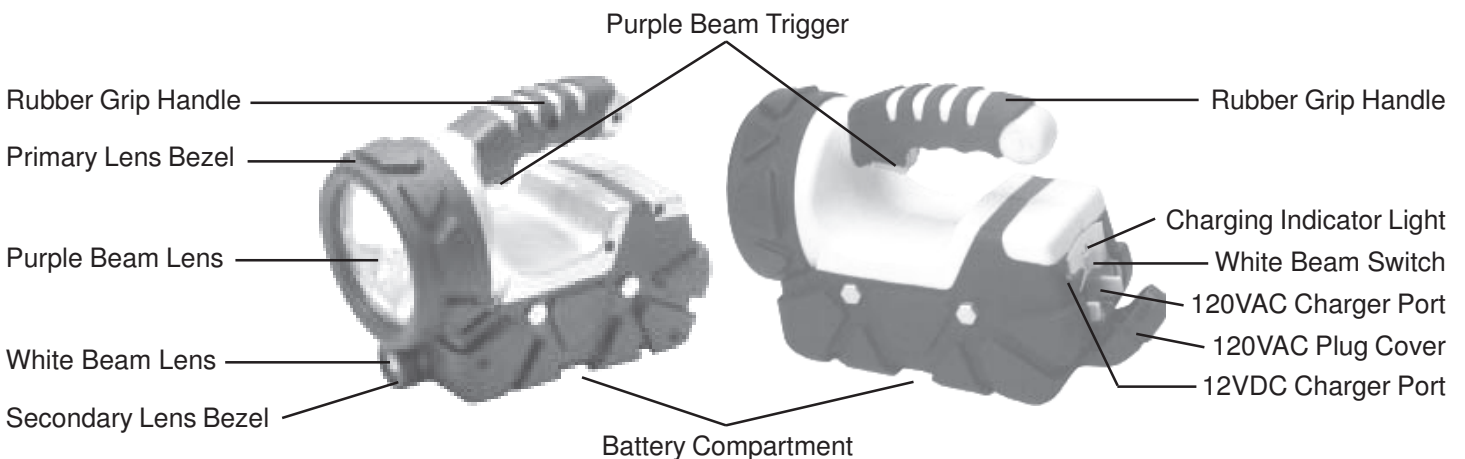
1. Fully read and understand this instruction guide before operating your new lantern. Retain this guide for future reference and support.
2. Do not operate or charge the lantern in rain or in wet locations.
3. The lantern is splash-resistant, but do not immerse in any liquid.
4. Keep the lantern away from children. This instrument is not a toy.
5. The lantern emits extremely intense light. DO NOT look directly into the beam during operation, and avoid strong beam reflections.
6. Charge the lantern for 18 hours before using it for the first time.
7. Recharge the lantern after each use, or once every sixty days. See the operating instructions which follow for proper charging technique.
8. The lantern contains a sealed lead acid rechargeable battery that must be disposed of properly at its end of life. To locate a nearby battery recycling center, please call (toll free) 1-877-2-RECYCLE.
9. Do not drop the lantern, as damage to the lens or other elements may occur. Do not attempt to operate or charge the lantern if it is damaged.
10. Contact Flashlights Unlimited for technical assistance or to acquire replacement parts or service. Call 1-770-446-7561 or fax 1-770-446-7604, or visit our Feedback web page at [flashlightsunlimited.com/feedback.htm](http://flashlightsunlimited.com/feedback.htm).

**OPERATION**

A two-position ON/OFF push-button switch, located near the front of the handle, controls the operation of the primary 410nm beam. The primary beam can be continuously operated for up to 90 minutes on a full battery charge. Never operate the lantern during charging. The secondary white light is controlled by a small slide switch, located on the back of the lantern housing. It can be operated for up to 50 hours on a full battery charge. The primary beam will flash intermittently when the battery charge is depleted. Immediately turn off the lantern and fully recharge it, to avoid a potential reduction of the useful battery life.

**CHARGING**

DO NOT operate the lantern during charging. The lantern has both 120VAC and 12VDC ports for charging power. Both ports are located on the back of the lantern housing, and both are covered by protective rubber boots. Use only one of these two ports at any one time. If using the 120VAC port, attach any standard three-prong power cord or extension cord, and be certain that the power source is 110VAC to 120VAC at 60Hz (use of any other power source will damage the internal charger circuitry and void the warranty). If using the 12VDC port, plug the included charging cable into a standard 12VDC automotive cigarette lighter socket. A red indicator LED on the back of the lantern housing will light when the unit is charging. When the battery has been fully recharged, the red indicator will flash. The battery cannot be overcharged by the internal circuitry, and no damage will occur if the unit is left charging for an extended period. Replace the protective covers on both ports when charging has been completed, to prevent intrusion of dirt or moisture.



## **CASE CLEANING**

Over time, dirt and fingerprints may accumulate on the lantern. If necessary, clean the lantern with a soft clean oil-free cloth moistened with household window cleaner. Do not use any strong solvent based cleaners on the plastic surfaces, as this may damage the finishes.

## **BATTERY CARE**

Lead-acid batteries require recharging on a regular basis, to maintain a full charge and to ensure good battery life. All lead-acid batteries will self-discharge over time, and this happens more rapidly when they are stored at higher temperatures. Therefore, these types of batteries need periodic charging to replace energy lost through self-discharge. When the lantern is not in use, its battery should be recharged at least every once every sixty days. The battery should also be recharged as soon as possible after each use. If the battery remains in a discharged state, its useful life will be significantly reduced. Recharging the battery after each use will prolong its life; frequent heavy discharges between recharges will reduce battery life. The battery cannot be overcharged, so there will be no damage from extended charging cycles. The time required to fully recharge the battery depends on the charge status of the battery after use or storage. If the battery has been discharged, be sure to fully recharge the lantern until its red charging indicator light begins to flash.

## **BATTERY REPLACEMENT**

The battery should be replaced when it will not hold a charge or power the lantern. The rechargeable battery compartment is located in the base of the lantern. Disconnect the charger power cord from the outlet if attached. You will need a new proprietary 6-volt, 3-ampere-hour NiMH replacement battery, plus a Phillips blade screwdriver (number 1 size). The procedure to replace the proprietary rechargeable battery module is as follows:

1. Remove the two screws which secure the black battery cover to the lantern housing.
2. Lift and pull the battery cover up and away from the lantern housing to remove it.
3. Gently remove the battery from its compartment. Use a thin wooden or plastic tool if needed, to pry the battery loose from the retainer pads. Do not yank with force or shake the battery loose from its compartment, as this could damage or break the connecting wires.
4. Observe the connections to the red and black wires on the back side of the battery, and then remove the two push-on wire connectors from the two tabs on the battery case.
5. Set the disconnected old battery aside, it must be recycled and cannot be discarded.
6. Firmly push the two connectors of the red and black wires onto the tabs of the new battery, and be certain that the red wire connector is attached to the positive (+) terminal and that the black wire connector is attached to the negative (-) terminal.
7. Insert the new battery into the compartment with its terminal side facing toward the inside of the lantern, and then replace and secure the battery cover with its two screws.

## **BATTERY RECYCLING**

The original Sealed-Lead-Acid (SLA) battery is fully recyclable, and can be taken to any location that accepts common automotive starter batteries for recycling. Examples of places that accept these batteries are: county or municipal recycling drop-off centers, scrap metal dealers, and retailers who sell automotive batteries. To locate your nearest battery recycling center, please call (toll free) 1-877-2-RECYCLE. Do not dispose of the battery in fire (as this could result in an explosion). Before recycling the old battery, protect its exposed terminals with heavy-duty electrical tape to prevent a short circuit (as this may result in injury or fire). Do not discard the battery with household trash; failure to comply with local, state, or federal regulations may result in fines and/or imprisonment.

## **UNIT SPECIFICATIONS**

Lantern Weight . . . . .	2 lb 15 oz (1.33 kg)
Overall Height . . . . .	6.0 in (15.24 cm)
Overall Length . . . . .	7.5 in (19.05 cm)
Base Width & Depth . . . . .	4.0 x 6.0 in (10.16 x 15.24 cm)
Rechargeable Battery . . . . .	6V 3AH SLA (user-replaceable)
Purple Beam Source . . . . .	80 Purple LEDs (starburst array)
Purple Beam Runtime . . . . .	over 60 minutes from full charge
White Beam Source . . . . .	1 White LED (with focusing lens)
White Beam Runtime . . . . .	over 40 hours from full charge



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## Flashlights Unlimited / Xenopus Electronix Deep Purple 410 Standard Inspection Lanterns & Kits

### Description

When performing fluorescent integrity inspections of marine coatings in very large area environments such as water tanks, a powerful light source is required. But conventional UltraViolet sources can be extremely hazardous to eyes and skin. Now there is a safer alternative, the Xenopus Electronix 410nm Deep Purple Inspection Lantern. With eighty bright LEDs, this rugged hand-held unit provides the smooth beam image and extended range you need for this specialized application. Made especially for Flashlights Unlimited, the new XE 410 lantern may also be appropriate for other applications, in situations where a suitable fluorescent response can be achieved with the longer and less dangerous 410nm peak wavelength. Cooler running and lighter in weight than hot and heavy high-intensity UV lamps. AC & DC rechargeable design provides convenient cordless operation and dramatically reduces operating costs.

### Features

- ✧ Eighty bright LEDs deliver a smooth and powerful purple beam.
- ✧ The purple beam color is safer for eyes and skin than UltraViolet.
- ✧ Perfect for inspection of Sherwin-Williams™ Blue OAP coatings.
- ✧ Peak wavelength is 410nm, overall bandwidth is 405nm to 415nm.
- ✧ Conservatively-driven LEDs have 10,000+ hour typical lifespan.
- ✧ Power regulation circuitry maintains consistent beam brightness.
- ✧ Convenient handle-mounted trigger switch has continuous-on latch.
- ✧ Has a supplemental white-light LED with a separate slide switch.
- ✧ User-replaceable long-life sealed-lead-acid rechargeable battery.
- ✧ Delivers more than 60 minutes of runtime from a full charge.
- ✧ Built-in 120VAC charger system with a two-foot stub cord.
- ✧ Also charges from an included 12VDC automotive plug cord.
- ✧ A flashing low-battery indicator lets you know to recharge.
- ✧ A red indicator LED flashes when charging has completed.
- ✧ Rugged housing is splash-resistant (but not submersible).
- ✧ Shatter-resistant polycarbonate front lens with o-ring seal.
- ✧ Rubber over-molding on handle grip, lens bezel and base.
- ✧ Kit includes molded carrying case and yellow filter glasses.
- ✧ One-year limited factory warranty from Xenopus Electronix.



### Products

<b>Xenopus 410 Lanterns &amp; Kits</b>	<b>Item No.</b>	<b>Xenopus 410 Accessory Items</b>	<b>Item No.</b>
Xenopus Electronix 410 Lantern Only includes 12VDC charger cord and 120VAC stub cord	XE-410S-L	Wrap-Around Filter Glasses - Yellow improves fluorescent contrast and blocks purple glare	EX-WG-Y
Xenopus Electronix 410 Lantern Kit with a molded carrying case and yellow filter glasses	XE-410S-K	Replacement Rechargeable Battery please take any expired batteries to a recycling center	BR-XEL-SLA



