Flashlights Unlimited
Xenopus Electronix
Deep Purple 405 Premium
Inspection Lantern
Operations Guide

IMPORTANT SAFETY INFORMATION !
READ AND COMPLY BEFORE USING !

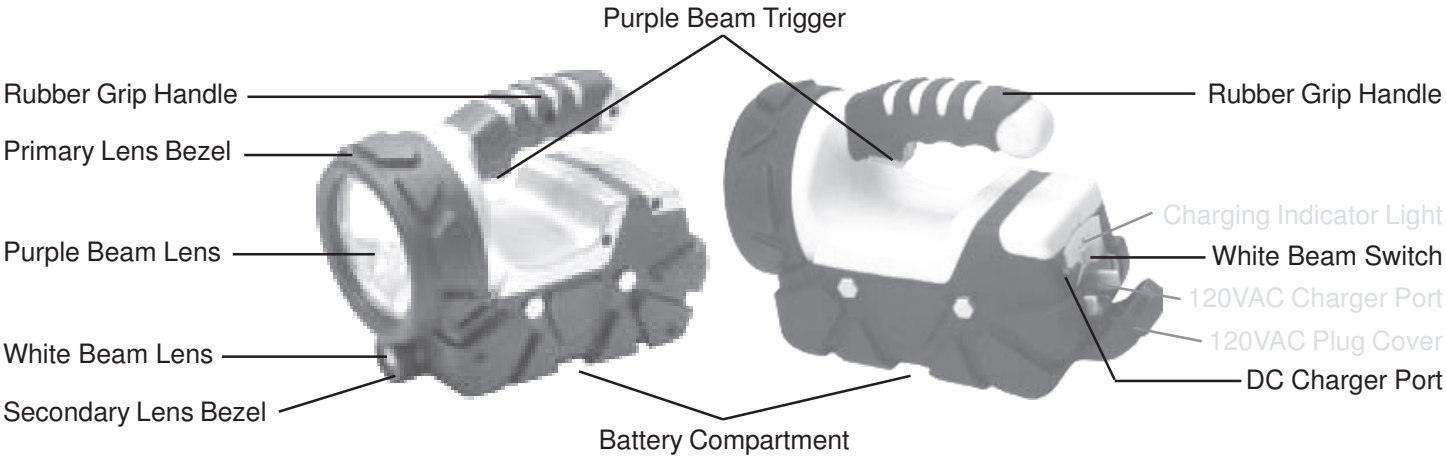
1. Fully read and understand this instruction guide before operating your new lantern. Retain this guide for future reference and support.
2. Do not operate or charge the lantern in rain or in wet locations.
3. The lantern is splash-resistant, but do not immerse in any liquid.
4. Keep the lantern away 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. Fully recharge the lantern 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 lithium ion rechargeable battery pack 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.

OPERATION

A two-position ON/OFF push-button switch, located near the front of the handle, controls the operation of the primary 405nm beam. The primary beam can be continuously operated for over three hours 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 over 100 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, so that it will be ready for the next inspection session.

CHARGING

DO NOT operate the lantern during charging. The lantern has both 120VAC and 12VDC ports located on the back of the lantern housing, both covered by protective rubber boots. DO NOT use the large 120VAC charger port, and DO NOT attach a standard power cord to it. The Premium lantern model can be used ONLY with the proprietary external lithium ion charger adapter that was supplied with the lantern. Remove the cover plug from the DC charger port on the back of the lantern, and insert the small plug from the charger adapter into the port. Insert the power plug from the charger adapter into a 120VAC domestic linepower outlet. A red indicator LED on the charger adapter module will light when the unit is charging (the indicator on the back of the lantern is not used). When the battery has been fully recharged, the red indicator will turn green. The battery cannot be overcharged by the adapter module, and no damage will occur if the unit is left charging indefinitely. Replace the protective cover plug on the port when charging is 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 SAFETY
Lithium ion batteries can become extremely dangerous if they are handled or operated improperly. DO NOT use any batteries or charger adapters other than those supplied with your lantern, or exact replacement units supplied by either Flashlights Unlimited or Xenopus Electronix. DO NOT use or charge the lantern if any part of the lantern or charger adapter shows any signs of damage. DO NOT subject the lantern or its battery pack or charger adapter to extreme heat or flame, nor to extreme moisture or liquids or volatile fumes of any kind. Fire or explosion may occur, possibly resulting in property damage, bodily injury or death.

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 the proprietary lithium ion replacement battery pack, 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. Do not yank with force or shake the battery loose from its compartment, as this could damage or break the connecting wires.
4. Carefully wriggle and pull on the two plastic battery connector pieces until they separate. Do not pull on the wires themselves when separating the two connectors.
5. Set the disconnected old battery aside, it must be recycled and cannot be discarded.
6. Note the polarity locators for the connectors on the new battery and the lantern, and then firmly push connector of the new battery onto the connector coming from the lantern.
7. Insert the new battery into the compartment, being sure to position the wires so that they will not be pinched, and then replace and secure the battery cover with its two screws.

BATTERY RECYCLING
The long-lasting lithium ion battery pack is fully recyclable, and can be taken to any location that accepts old cell phones and batteries for recycling. 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 connector 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 2 oz (0.96 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	Lithium Ion (user-replaceable)
Purple Beam Source	7 High-Flux LEDs (hexagon array)
Purple Beam Runtime	over 3 hours from a full charge
White Beam Source	1 White LED (with focusing lens)
White Beam Runtime	over 100 hours from full charge

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Flashlights Unlimited / Xenopus Electronix Deep Purple 405 Premium 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 405nm Deep Purple Inspection Lantern. With seven high-flux 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 405 lantern may also be appropriate for other applications, in situations where a suitable fluorescent response can be achieved with the longer and less dangerous 405nm peak wavelength. Cooler running and lighter in weight than hot and heavy high-intensity UV lamps. Efficient lithium-ion rechargeable design for convenient cordless operation and very low operating cost.

Features

✧ Seven high-flux 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™ OAP epoxy coatings.
✧ Peak wavelength is 405nm, overall bandwidth is 400nm to 410nm.
✧ 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 lithium ion rechargeable battery pack.
✧ Delivers more than three hours of runtime from a full charge.
✧ Longer runtime and faster recharge than our Standard model.
✧ UL-listed 120VAC external charger adapter has 6-foot cord.
✧ A flashing low-battery indicator lets you know to recharge.
✧ Red indicator LED turns green when charging is 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

Xenopus 405 Lanterns & Kits	Item No.
Xenopus Electronix 405 Lantern Only includes proprietary 120VAC external charger adapter	XE-405P-L
Xenopus Electronix 405 Lantern Kit with a molded carrying case and yellow filter glasses	XE-405P-K

Xenopus 405 Accessory Items	Item No.
Wrap-Around Filter Glasses - Yellow improves fluorescent contrast and blocks purple glare	EX-WG-Y
Replacement Rechargeable Battery please take any expired batteries to a recycling center	BR-XEL-ION

USAGE NOTES	UNIT #

ACTIVITY LOG	UNIT #

DATE	TIME	NAME	TASK	NOTE
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