

## **Flashlights Unlimited** **FU-405 Series** **Deep Purple** **Inspection Flashlight**



### **FU-405 Series** **Deep Purple** **Inspection Flashlight** **Safety Precautions**

The flashlight emits very intense violet light. Do not look directly into the beam (of this or any other high-intensity flashlight), and avoid strongly reflected exposure.

Keep the flashlight and batteries well away from flames or extreme heat or combustible materials. If handled or recharged incorrectly, lithium batteries can cause fires, explosions, injuries, and death.

Do not attempt to recharge disposable lithium batteries. Do not mix batteries of different types or brands or discharge conditions.

Do not leave lithium ion rechargeable batteries unattended during recharging. Do not use an unprotected lithium ion rechargeable battery. Do not recharge lithium ion batteries in any chargers other than those designed for the specific battery types being used.

### **FU-405 Series** **Deep Purple** **Inspection Flashlight** **Specifications**

*LED Specifications:*  
Peak Wavelength: 405nm  
Output Bandwidth: 400-410nm  
Peak Power Dissipation: 3W  
Typical Lifespan: 10,000 hrs

*Flashlight Specifications:*  
Overall Length: 5-7/8 in  
Maximum Diameter: 1-3/8 in  
Weight (Unloaded): 4.7 oz  
Weight (2 x CR123A): 5.9 oz  
Weight (1 x 18650): 6.3 oz  
Material: Aluminum Alloy  
Finish: Hard Anodize, Black  
Integrity: Water Resistant  
Seals: Dual O-Rings, Both Ends  
Lens: Etched Quartz Diffuser  
Bezel: Crenellated, Anti-Roll  
Switch: Tailcap Push-Button  
Modes: Momentary & Constant  
Accessories: Lanyard & Holster  
Compliance: ASTM E2501-11

*Standard Disposable Batteries:*  
2 x CR123A Lithium  
3.0V, 1300-1500mAH  
Typical Continuous Runtime: 3-4 hrs  
Do not install rechargeable type RCR123A

*Optional Rechargeable Battery:*  
1 x 18650 Lithium Ion  
3.7V, 2500-3500mAH  
Typical Continuous Runtime: 5-6 hrs  
Do not use unprotected lithium ion batteries

### **FU-405 Series** **Deep Purple** **Inspection Flashlight** **Operation & Maintenance**

Unscrew the tailcap to install or replace batteries, do not unscrew the headcap. Regardless of type, always install batteries with button (+) ends facing toward the lens, and flat (-) ends facing toward the tailcap.

Partially depress the tailcap switch for momentary operation, or press until it clicks for constant operation, click again to switch off. Turn off the flashlight before changing the batteries.

Aim the flashlight toward the surface to be inspected, and then turn on the beam. Wear yellow filter glasses to improve the contrast of defects in the coating, and to enhance vision safety.

Periodically clean the flashlight and lens with a soft cloth slightly moistened with ordinary window cleaner. Periodically lubricate the tailcap o-ring seals and threads with silicone grease. Do not use any hydrocarbon solvents or petrochemical lubricants on any part of the flashlight, damage will result (not covered by warranty).

### **FU-405 Series** **Deep Purple** **Inspection Flashlight** **Limited Warranty**

The flashlight is warranted to be free of defects in materials and workmanship for a period of one year from the date of purchase or delivery. Your sole remedy under this warranty is repair or replacement (at our option) of the defective flashlight, if returned to us at the customer's expense during the warranty period. The warranty will be voided if the flashlight or batteries have been damaged or operated improperly. There are no warranties of suitability for a specific application. Flashlights Unlimited will accept no liability whatsoever for any direct or consequential or incidental damages arising from the use or misuse or abuse of the flashlight or any accessory items under any circumstances. Battery and charger items are similarly warranted for a period of 90 days from the date of purchase or delivery (disposable batteries are excluded).

## **Flashlights Unlimited** **FU-405 Series** **Deep Purple** **Inspection Flashlight**

Designed &  
Manufactured For

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Flashlight & Holster  
Made In China

Operations Guide  
Printed In USA

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## **Flashlights Unlimited FU-405 Deep Purple Inspection Flashlight Charger & Batteries**



### **FU-405 Deep Purple Inspection Flashlight Charger & Batteries Safety Precautions**

Keep the flashlight and batteries well away from flames or extreme heat or combustible materials. If handled or recharged incorrectly, lithium ion batteries can cause fires, explosions, property damage, injuries, and death.

Keep the batteries and charger well away from water or liquids of any kind. Exposure to water may cause shock hazards and fatal electrocution.

Do not leave lithium ion rechargeable batteries and chargers unattended while recharging. Do not operate the charger on wood, carpet, fabric, or any other soft or flammable surfaces.

Do not attempt to recharge disposable lithium batteries. Never mix batteries of different types or brands in the charger or flashlight. Do not use any unprotected lithium ion rechargeable batteries. Never recharge lithium ion batteries in any chargers other than those designed for the specific battery types and brands being used.

### **FU-405 Deep Purple Inspection Flashlight Charger & Batteries Specifications**

#### *Charger Specifications:*

Make & Model: Tenergy TN270 (01270)  
Charges: 1 Or 2 Batteries, Independently  
Mode: Constant Current + Constant Voltage  
Battery Type: 3.7V Lithium Ion Only  
Battery Type Numbers: 18500 Or 18650  
Battery Holders: 2, Spring-Loaded Slot  
Charge Indicators: 2, Red/Green LED  
Charge Output: 4.2VDC @ 500mA x 2  
AC Input: 100-240VAC, 50-60Hz @ 0.15A  
AC Connection: Type A, 2-Prong Nonpolar  
DC Input: 12-24VDC @ 0.5-1.0A  
DC Connection: Auto Cigar Lighter Plug  
Safety Limitation: For Indoor Use Only

#### *Battery Specifications:*

Make & Model: Tenergy 18650 (30049)  
Battery Configuration: Button Top  
Nominal Voltage: 3.7V  
Low-Limit Cut-Off Voltage: 2.50V  
High-Limit Cut-Off Voltage: 4.35V  
Nominal Rated Capacity: 2600mAh  
Minimum Actual Capacity: 2500mAh  
Internal Impedance: <130milliOhms  
Contact Terminals: Nickel Plated  
Over/Under Protection: Internal PCB  
Diameter: 19mm ±0.5mm  
Height: 69.5mm ±0.5mm  
Approximate Weight: 50g  
Typical Performance: 90% @ 400 Cycles  
Typical Charge Lifespan: >500 Cycles  
Manufacturing Standard: ISO9001-2000

### **FU-405 Deep Purple Inspection Flashlight Charger & Batteries Operation**

Fully charge each battery before installing in flashlight. Charger can independently charge one or two batteries simultaneously. Use only the supplied batteries, and do not install any other types.

Pull down bottom spring tab and insert battery with button (+) contact at top of charger and flat (-) contact against bottom spring tab. Never install batteries backwards. Connect either the 120VAC or 12VDC power cord (never both at once) and connect to an appropriate power source (see at left).

Indicator light will glow red when a battery is charging, and will change to green when battery has been fully charged. Remove each battery promptly after charging has been completed for each one. Charger has reverse polarity and short circuit protection features. See Safety Precautions below.

## **Flashlights Unlimited FU-405 Deep Purple Inspection Flashlight Charger & Batteries**

**Packaged &  
Distributed By**

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