

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



**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

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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).

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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  
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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

**Flashlights Unlimited  
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Flashlight & Holster  
Made In China

Operations Guide  
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## Flashlights Unlimited FU-405 Deep Purple Inspection Flashlight USB Battery System



## FU-405 Deep Purple Inspection Flashlight USB Battery System Specifications

*Battery Specifications:*  
Model: Tenery 18650 (T35B / 31779)  
Battery Configuration: Button Top  
Nominal Voltage: 3.6V  
Nominal Capacity: 3500mAh  
Internal Charging Port: Micro-USB  
Contact Terminals: Gold Plated  
Over/Under Protection: Internal PCB  
Charge Status Indicator: Internal Red/Blue  
Diameter: 18.9mm max  
Height: 70.1mm max  
Approximate Weight: 50g  
Typical Charge Lifespan: 500-1000 Cycles  
Certifications: IEC 62133, UL 1642, UN 38.3

*AC Charger Module Specifications:*  
AC Input: 100-240VAC, 50-60Hz @ 0.5A  
AC Connection: Type A, 2 Prong Nonpolar  
USB Output: 5VDC @ 2.1A  
Number of USB Ports: 2  
Supplied Cable: USB To Micro-USB  
Cable Details: Braided Cord, Six Foot  
Safety Limitation: For Indoor Use Only

*DC Charger Module Specifications:*  
DC Input: 12-24VDC  
DC Connection: Auto Cigar Lighter Plug  
USB Output: 5VDC @ 2.4A  
Number of USB Ports: 2  
Supplied Cable: USB To Micro-USB  
Cable Details: Braided Cord, Six Foot  
Safety Limitation: For Indoor Use Only

## FU-405 Deep Purple Inspection Flashlight USB Battery System Operation

Fully charge each battery before installing it in the flashlight. Use only the supplied batteries, and do not install any other types except as noted in the Operations Guide for your flashlight model.

Attach the micro-USB end of a cable into the port at the top of the battery. Attach either the 100-240VAC or the 12-24VDC charger adapter module to the other end of the USB cable, and connect to an appropriate power source (details at left). If using an external charger such as the Tenery model TN270, do not attach a USB cable to the battery.

Battery indicator glows red when a battery is charging, and will change to blue when battery has been fully charged. Disconnect or remove battery promptly after charging has completed. See Safety Precautions below.

## FU-405 Deep Purple Inspection Flashlight USB Battery System 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 or fatal electrocution, and may also destroy the batteries.

Do not leave lithium ion rechargeable batteries and chargers unattended while recharging. Do not charge the batteries on wood, carpet, fabrics, or 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 USB Battery System Limited Warranty

Supplied chargers and batteries are warranted to be free of defects in materials and workmanship for a period of ninety days from the date of purchase or delivery. Your sole remedy under this warranty is repair or replacement (at our option) of any defective items, if returned to us at the customer's expense during the warranty period.

The warranty will be voided if the flashlight or charger 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 lithium ion batteries or charger or any other accessory items under any circumstances.

## Flashlights Unlimited FU-405 Deep Purple Inspection Flashlight USB Battery System

Packaged &  
Distributed By

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USB Batteries &  
Chargers & Cables  
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