

Introduction

Thank you for purchasing your B2400 NDT Inspection Flashlight, UV-A, 365nm. Please read the following instructions carefully before using your instrument. By following the steps outlined in this Manual, your flashlight will provide years of reliable service.



Product Quality

This product has been manufactured in an ISO9001 facility and has been calibrated during the manufacturing process to meet stated product specifications.

Safety

- UV-A radiation can cause eye injury. Always wear approved UV-blocking eye protection.
- Do not operate the flashlight if the protective filter is cracked or missing.
- Do not look directly into the UV-A light source.
- Do not operate if the product has been physically damaged.
- This product is not intended for use in hazardous environments.
- Never attempt to repair or modify your flashlight. Servicing must be performed by an authorized service center only.

Features

- Designed with specially-made dark filter lens to filter out visual light
- Light intensity up to 10,000 μ W/cm²
- Instant-on operation: Lamp reaches full power immediately
- Rechargeable Li-ion battery
- Lightweight and rugged
- Charging status indicator light

Included

- NDT Inspection Flashlight
- USB-C Cable
- Rechargeable Battery
- 2x O-rings
- Lanyard

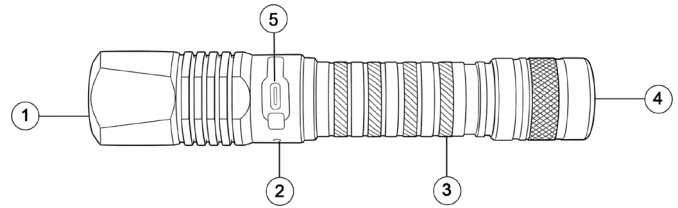
Specifications

Nominal Steady-State UV-A Light Intensity at 6" (15cm):	10,000 μ W/cm ²
Nominal Steady-State UV-A Light Intensity at 15" (38cm):	1470 μ W/cm ²
Light Source:	365nm UV-A LED
Lens:	Special UV dark filter lens
Lamp Style:	Cordless flashlight
Low Battery Indicator:	Yes (Red LED Indicator)
Power Requirements:	Rechargeable lithium-ion battery
Charging Interface:	USB Type-C Interface
Battery Life:	Approx. 2 hours
Product Certifications:	CE, IP68
Dimensions:	Length: 6.06" (15.4cm) Lamp head diameter: 1.10" (2.8cm)
Weight:	4.93oz (140g) without battery

Application

- Industrial leak detection
- Specialized applications
- Small space inspections
- NDT (Non-Destructive Testing)

Instrument Description



1. UV Lens
2. Power/Battery Indicator Light
3. Battery Compartment
4. Power Button
5. USB-C Charging Port

Operating Instruction

Power ON/OFF

1. Install the battery with the positive terminal toward the head.
2. Tighten the tail cap securely.
3. Press the power button to turn the flashlight ON.
4. Press the power button again to turn the flashlight OFF.

UV Inspection Procedure

This UV flashlight is designed for use in dark or semi-dark areas. Allow enough time for your eyes to adjust to the dark environment prior to use. Some substances/materials will fluoresce brighter than others. This reaction is caused by the concentration of fluorescence on the material and varying degrees of brightness of different colors.

1. Maintain a consistent inspection distance appropriate for required irradiance.
2. Sweep the light beam slowly across the inspection surface. Scan a general area first to illuminate, and then get closer to investigate and spot areas of interest.
3. Avoid reflective glare from polished or wet surfaces.
4. Ensure inspection surfaces are clean and free of contaminants prior to inspection.

Waterproof Integrity Check

1. Ensure the USB charging port cover is fully secured.
2. Verify O-rings are clean, lubricated, and properly seated.
3. Confirm all threaded components are fully tightened.

Battery Charging

The B2400 is equipped with a battery indicator light. When the battery requires recharging, the light will turn RED and when the battery is full, the light will turn GREEN.

1. Connect the B2400 via the included cable to a USB port on your PC or into a wall outlet using a USB Power Adapter to charge the Li-ion battery.

Note: The flashlight must remain powered off to properly charge via the USB port on your PC.

2. Charge the meter until the battery indicator turns GREEN.

Replacing the O-rings

It is recommended to regularly replace or lubricate the included O-ring and screw thread to ensure a proper seal and smooth tail cap removal.

1. To replace the O-ring, unscrew and remove the tail cap from housing.
2. When removing the O-ring, do not use any tools that may scratch the surface where the O-ring is installed.
3. Discard the old O-ring and clean the area with a wet cloth, drying it with a lint-free cloth to make sure there aren't any particles left behind that could hinder the new ring from sealing.
4. Apply a small amount of lubricant to the new O-ring before installation to ensure the O-ring fits securely.
5. When completed, screw the tail cap back into place.