



UV-LED Hand Lamp

Mobile Lamp for Battery and Mains Operation

KARL DEUTSCH

UV-LED Hand Lamp

Lightweight, ergonomic and large illuminated field



Compact, lightweight UV-LED Hand Lamp with long-life LED technology



White light switching at the touch of a button



Charger for two commercially available Li-ion high-performance cells included in the set



Supplied in a handy carrying case

UV-LED hand lamp for use in magnetic particle and penetrant testing

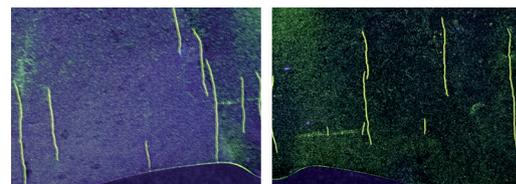
Features:

- Light and ergonomic hand lamp
- Small, compact design
- UV-LED technology with long lamp life
- Five high-power UV-LEDs and one white-light LED
- Switchable between UV and white light by push-button
- Immediate operational readiness
- UV intensity: 45 W/m² or 4,500 μW/cm² at 380 mm distance
- Large UV-light field: Ø 280 mm at 380 mm distance (> 10 W/m² or 1,000 μW/cm² according to ASTM)
- Very uniform intensity distribution
- Risk class 2 (according to EM 6)
- Meets the requirements of operational safety for the lowest possible UV-exposure
- Meets all requirements of the German Society for Non-Destructive Testing (DGZfP leaflet EM 6)
- UV-A radiation with 365 nm wavelength
- No hazard by UV-B and UV-C radiation
- White light component in UV-light < 5 lux
- Use of a special filter to avoid disturbing reflections
- Constant control of LEDs for longer LED life (flicker-free)
- Robust aluminium housing, red anodised
- Rubber frame on the lamp head for shock protection and for a safe stand when unused

- Dust-proof and splash-proof (IP64)
- Operation via 2 Li-ion batteries, type 18650 with 3.7 V and 3400 mAh
- 2 sets of batteries plus charger included in the set
- Due to the low operating voltage, there is no danger of electric shocks when testing in closed containers
- Approx. 3.5 hours continuous battery operation
- Green/red status LED signals the end of the lighting time
- Extremely long LED bulb life of 10,000 hours

Options:

- Power supply unit (12 V) with plug-in connection cable (length: 2 m or 5 m)
- Certification according to ASTM E3022, Airbus AI TM 6-1001 and Rolls Royce RRES 90061 standards



The integrated special filter ensures better crack detection (right) by avoiding disturbing reflections (left)

Technical Data

Lamp	
Weight	700 g (incl. batteries)
Length / width / height (max.)	170 mm / 90 mm / 190 mm (approx.)
Wave length	365 nm ± 5 nm
UV-intensity (380 mm distance)	45 W/m ² or 4.500 μW/cm ²
Illuminated UV-area (380 mm distance)	280 mm Ø (> 10 W/m ²)
Rechargeable battery	
Capacity	3,400 mAh / 3.7 V (per cell)
Cell size	70 mm x 18 mm Ø (approx.)
Weight	50 g per cell (approx.)
Operating time	3.5 h (approx.)
Charging time	4 h (approx.)

Order Numbers

UV-LED Hand Lamp incl. 2 battery sets and charger	Order No.: 3817.001
Plug-in Mains Unit 12 V (without connection cable)	Order No.: 3817.015
Connection Cable 2 m between mains unit and lamp	Order No.: 3817.016
Connection Cable 5 m between mains unit and lamp	Order No.: 3817.017
Additional Certificates (according to ASTM E3022, AI TM 6-1001 and RRES 90061)	Order No.: 3899.9021

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