

NEO-V-365

Version 1

Handheld LED UV Lamp

The Neo-V-365 is a UV inspection lamp designed for use in the Non Destructive Testing (NDT) sector and is certified with all major NDT standards including ASTM E 3022, RRES 90061 and Airbus AITM6-1001. The Neo-V-365 emits UV-A light with a peak wavelength of 365nm which makes it ideal for undertaking Magnetic Particle Inspection (MPI) and liquid Dye Penetrant Inspection (DPI).

Key Features

Peak Wavelength	365 ± 5 nm
Intensity (@ 380mm)	> 4300 µW/cm ²
Visible Light	< 5 lux
Ingress Protection	Rated IP65



Designed for NDT

The Neo-V-365 is primarily designed for use in Non Destructive Testing (NDT) – Magnetic Particle Inspection (MPI) and liquid Dye Penetrant Inspection (DPI). However the 365nm UV light emitted by the Neo-V-365 is suitable for many sectors including medical laboratories, crime laboratories, passport and currency checking, forensics, UV curing, leak detection and others where fluorescent inspection takes place.

Mains and Battery operation

The Neo-V-365 is a mains operated unit but has the versatility to be operated by battery if and when required. The Neo-V-365 kit includes two cover plates as standard – For mains operation a cover plate incorporating a square mounting peg hole is used. For battery operation the mains cover plate is removed, rechargeable Li-ion batteries are inserted into the handle and the other cover plate with the + and - sign (donating battery polarity) is used.

2-3 Hours continuous use

The batteries can be charged without removing them by connecting the mains cable to the rear of the unit. Typically the Neo-V-365 will operate for 2 to 3 hours continuously on a single charge and take 4 to 5 hours to recharge. The indicator light on the rear of the unit is red while the unit is charging but will turn green once the unit is fully charged.

Switchable UV and White light

The Neo-V-365 Inspection Lamp features 3 LED array with internal optics and black filter lenses to produce a high intensity UV-A uniform beam with no hot spots. In addition the unit also features a switch selectable white light mode for visual inspection under white light.

Everything you need in a kit

The Neo-V-365 inspection lamp is supplied in a plastic case as part of a kit with everything you need to operate the unit safely.

Johnson and Allen Ltd

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Standard Compliance

General NDT UV-A Specifications	Fluorescent Penetrant Specifications	Fluorescent Magnetic Particle Specifications
ASTM E 3022-18 ASTM E 3024-22a ISO 3059: 2012 RRES 90061 (10-2014) (Mains Only)*	ASTM E 1417-21e1 ISO 3452: 2021 Airbus AITM6-1001 (Issue 12) (Mains Only)*	ASTM E 1444-21 ISO 9934 ISO 9934: 2016 Airbus AITM6-2001 (Issue 4) (Mains Only)*

*Conformity only valid for mains operation for RRES 90061, Airbus AITM6-1001 and Airbus AITM6-2001. Certification for these standards provided on request free of charge.

Technical Specification / Spectral Information

Lamp Information	
Light Source	3 x UV LED 1 x White LED
Peak Wavelength	365 ± 5 nm
Intensity (@ 380mm)	> 4300 µW/cm ²
Visible Light	< 5 lux
Coverage Area / Beam Profile (@ 380mm)	230 mm (> 1000 µW/cm ²) 270 mm (> 200 µW/cm ²)
Battery Data	18650 Li-ion Battery, 3.7V (3400mAh) - 2 OFF
Working Period (Full Charge)	2-3 Hours
Charging Period	4-5 Hours
Power	12 Watts (UV) 3 Watts (White)
Weight	785g
Minimum Working Distance	160 mm
Operational Temperature Range	5 to 50 °C
Max. Housing Temp. @ 26 °C Ambient	40 ± 2 °C
Input Supply (Lamp)	12V, DC
Power Adaptor (PA) Information	
Input Supply (PA)	100-240V, AC (50-60Hz)
Output Supply (PA)	12V, DC

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