

UVee™ UV LED Lamp Manual

UVee™ is a UV lamp designed for fluorescent penetrant dye inspections (PDI) and is compliant with Rolls Royce RRES9006, Airbus AITM6-1001, and ASTM E3022 standards.

Please read the manual carefully before using this product.

1. Technical specification

UV LED

- 365 nm wavelength \pm 5nm.
- FWHM < 20nm.
- Pure UV-A source and 100% free of UV-B and UV-C.
- Visible light of the UV LED < 10lux at 38cm.
- Smooth beam profile with no “hot spots”.
- UV LED intensity (4000- 4500) μ W/cm² at 38cm. (**White Light™ model**)
- UV LED intensity (4000- 4500) μ W/cm² at 38cm. (**Beam™ model**)
- UV LED intensity (3500- 3800) μ W/cm² at 38cm. (**Big Beam® model**)
- Intensity stability better than 1% in the working temperature range.

White LED (applies to White Light model only)

- Intensity approximately 1000lux at 38cm.

Working temperature:

- 0°C to 50°C

Ingress Protection compliance

- IP65 (When battery operated with PWR connector protection cap applied)

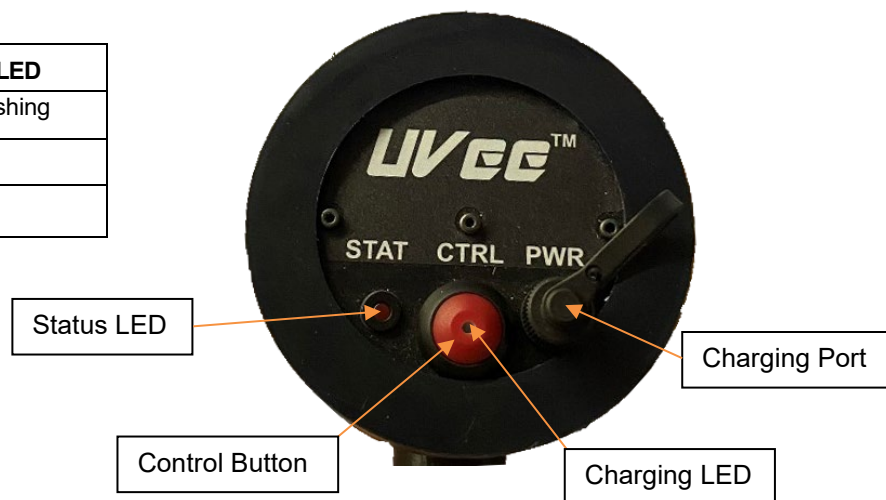
Power & Charging

- Battery operated or via charger/AC mains power supply.
- Voltage: DC 12V.
- Max. current: 2A @ 12V (while battery is charging, and the LED is ON).
- Internal battery: 2 x lithium-ion cells pack, 7.4V, 10Ah.
- Battery charging time: 2-3 hours @ 20°C (approx.).

2. Charging

- Open the cap of the PWR connector
- Connect the battery charger cable to the PWR connector.
- Plug the charger into an AC mains outlet.
- Three seconds after turning the AC socket on, the red charging LED should light up.
- Whilst charging, the device is fully operational and can be used as normal.

Condition	Status LED
Low Battery Warning	Slow Flashing
Normal Battery Operation	OFF
Temperature outside limits error	ON



3. Safety

- Do not open the device.
- Do not change the batteries
- Charge the lamp only with the charge adapter supplied.
- Use and store the lamp and charger indoors in a dry location, away from flammable substances.
- Do not use the lamp in temperatures below 0°C and above 50°C
- Discontinue use and call for service if the lamp is damaged and the filters or the charge cable are broken.