



**UV LED Large Area Lamp**  
for stationary use in fluorescent material inspection

**KARL DEUTSCH**

# UV LED Large Area Lamp for fluorescent penetrant and magnetic particle inspection



UV LED large area lamp 3846.001 in KD-Check stationary system with white light



Inspection with the large area lamp under UV light



UV LED large area lamp operating panel



30 UV LEDs provide for a very uniform intensity distribution

## UV LED large area lamps for stationary use

The multifunctional UV LED large area lamps are ideal for stationary use in fluorescent penetrant and magnetic particle inspection. Several lamps can be linked in series and offer the possibility to change between UV light and white light.

### The most important characteristics of the UV LED large area lamp at a glance:

- UV LED technology with long life time of the illuminants (operating time > 10,000 hours)
- 30 high power UV LEDs guarantee high UV intensity
- Very uniform intensity distribution
- UV intensity of approx. 40 W/m<sup>2</sup> or 4000 µW/cm<sup>2</sup> at a distance of 400 mm
- White light intensity of approx. 2500 lux at a distance of 400 mm
- Illuminated area of 650 mm x 260 mm at a distance of 400 mm
- No measurable white light in UV light
- Risk class 2 according to German standard EM 6
- Switchable from UV to white light
- Immediately ready-to-operate
- No risk by UV-B and UV-C irradiation (no filter glasses are required)
- UV-A radiation exclusively at 365 nm wavelength
- Fulfills all standards of the German Society for Non-Destructive Testing (DGZfP) especially regarding wavelength and intensity
- Heat flow via housing without a fan – and therefore no noise
- Solid aluminium housing in aluminium profile system
- Standard power unit supplies up to two lamps – a power supply for up to four lamps is available
- Also available with ASTM E 3022, Airbus AITM 6-1001 and Rolls Royce RRES 90061 certifications

### Technical Data and Ordering Information

UV LED large area lamp	order no. 3846.001 (incl. power adaptor and cable 2.5 m)
Weight	7.5 kg
Dimension (w x h x d)	662 mm x 224 mm x 65 mm
Mains operation	via power supply: input voltage 100 V – 240 V, 50/60 Hz, 55 Watt power consumption
ASTM version	order no. 3846.102 (certificate according to ASTM E 3022)

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