

# ZB-6000

## Hand Held LED UV Lamp

### General Description

ZB 6000 LED UV lamp is a portable, hand-held UV lamp for fluorescent non-destructive testing applications like fluorescent penetrant testing and fluorescent magnetic particle inspections.

The ZB 6000 features a large 8 in / 20 cm, uniform beam without hot spots.

Custom-designed optics provide intense, even coverage of UV-A to easily identify indications, and an integrated filter ensures minimal visible light emission to improve inspection reliability.

ZB 6000 is certified to NDT standards for LED UV lamps and certified for ASTM and OEM specifications for emission spectrum and beam profile. Each unit is shipped with a manufacturer's certificate of conformance which meets or exceeds all current specifications for use with fluorescent liquid penetrant and magnetic particle testing.

### Benefits

#### **Minimizes time to inspect parts**

- Speeds up inspection time with one of the widest, most even beams in the market
- Indications are clearly visible even at the edge of the 8 inch / 20 cm beam, thanks to the high intensity LEDs

#### **Maximizes range of inspections**

- Suitable for virtually any fluorescent penetrant or mag particle inspection
- Inspect a wide range of components, across segments, without worry

#### **Increases real-world reliability**

- Reduces on-the-job downtime with dependable, reinforced construction



### Features

- 8 in / 20 cm wide, uniform beam
- No hot spots in the beam profile
- Low energy consumption
- Certified to ASTM

### Specification Compliance

#### **Penetrant Testing Specifications**

- ASME BPVC
- ASTM E165
- ASTM E1417
- ISO 3452

#### **Magnetic Particle Testing Specifications**

- ASME BPVC
- ASTM E709
- ASTM E1444
- ASTM E3024
- ISO 9934

**Usage Recommendation**

<b>NDT Method</b>	Fluorescent Penetrant Testing and Mag Particle Inspection
<b>Recommended Accessories</b>	UVM3059 Digital Light Meter Visible Light Meter UV Absorbing Safety Glasses

**Product Properties**

<b>Light Sources</b>	<b>5 UV-A LEDs</b>
<b>Peak Wavelength</b>	<b>365 ±5 nm</b>
<b>Max UV-A Intensity</b>	<b>6,000 µW/cm<sup>2</sup> @ 15 in / 38 cm Height</b>
<b>UV Light Coverage</b>	<b>8 in / 20 cm, @ 15 in / 38 cm Height</b>
<b>Visible Light in UV Mode</b>	<b>&lt; 10 Lux</b>
<b>Heat Management</b>	<b>Sealed, passive cooling</b>
<b>Weight, Lamp</b>	<b>0.9 Kg (approximately)</b>
<b>Weight, Power Supply</b>	<b>0.6 Kg (approximately)</b>

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