

# ST700

## Stationary Inspection LED UV Lamp

The ST700 is an inspection-grade overhead LED UV flood lamp with high-intensity UV-A illumination for non-destructive testing examinations such as fluorescent penetrant and magnetic particle testing.

The ST700 projects an ultra-wide, even beam of UV-A light straight onto the inspection area, allowing for quick examination of parts with minimal part handling. The high intensity beam makes indications stand out bright and clear, speeding up the inspection process. Proprietary optics and integrated filter minimize visible light emission and prevent decline of UV intensity over time.

Designed to stand up to harsh inspection environments, the ST700's durable aluminum construction prevents accidental damage to the light. A range of mounting and angling options allow it to be set up anywhere in the inspection process – from mag benches and inspection booths to wash stations .

The ST700 is certified to NDT standards for LED UV lamps and certified for Aerospace Prime 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

#### Speed up the inspection process

- Inspect more of the part at once thanks to the ultra-wide, 20 x 26 in / 50 x 66 cm beam when mounted at a working distance of 36 in / 90 cm
- Eliminate additional steps and equipment involved with using a secondary hand-held inspection lamp

#### Real-world reliability

- Fully sealed construction prevents dust and water damage
- Maintain UV intensity and coverage over time with non-clouding, proprietary lenses
- Rugged, impact resistant metal construction designed for NDT environments

#### Work in comfort

- Keeps inspection booths cool thanks to the fan-less, LED technology
- Eliminates hazardous mercury vapor for safer working conditions and better EHS compliance
- Easily maintain and changeover equipment with built-in white light

#### Minimize risk of missing indications

- Make indications stand out bright and clear thanks to the high-intensity LEDs – 7,000  $\mu\text{W}/\text{cm}^2$  at 15 in / 38 cm
- Mount the light out of the way, up to 46 in / 117 cm above the inspection surface while still maintaining inspection level intensity

#### Maximize range of inspections

- ASTM and RRES certified lamp for use in virtually any fluorescent NDT inspection
- Custom UV-A filters eliminate glare to increase contrast
- Multiple mounting and angling options to adapt to your inspection environment

**PRODUCT PROPERTIES**

<b>Peak UV-A Wavelength</b>	365 ±5 nm
<b>Inspection Working Distance</b> ASTM E3022 RRES 90061	8 in / 20 cm 23-54 in / 58-137 cm
<b>Stabilization Time</b>	10 min
<b>Visible Light in UV Mode</b>	< 1 fc / 10 lux
<b>Visible Light in Visible Light Mode</b>	60 fc / 600 lux at 36 in / 90 cm
<b>Control Cord Length</b>	10 ft / 3 m
<b>Power Supply Cord Length</b>	10 ft / 3 m
<b>Weight</b>	25 lb / 11 kg
<b>Power In</b>	100-240 VAC, 50/60 Hz, 2A max

**USE RECOMMENDATIONS**

<b>NDT Method</b>	Fluorescent Penetrant Testing and Fluorescent Magnetic Particle Inspection
<b>Recommended Accessories</b>	UV-A Meter, PN 625024 Visible Light Meter, PN 622338 UV-A Safety Glasses, PN 506249

**UV-A COVERAGE**

	<b>Beam Dimensions</b>	<b>Max UV-A Intensity</b>
<b>UV-A Beam Profile at 15 in / 38 cm</b>	13 x 25 in / 32 x 64 cm oval	7,000 μW/cm <sup>2</sup>
<b>Working Distance UV-A Beam Profile at 36 in / 90 cm</b>	20 x 26 in / 50 x 66 cm oval	3,000 μW/cm <sup>2</sup>
<b>Max Inspection Area UV-A Beam Profile at 46 in / 117 cm</b>	22 x 25 in / 55 x 64 cm oval	> 1,000 μW/cm <sup>2</sup>

**FEATURES**

- 7,000 μW/cm<sup>2</sup> high intensity UV-A illumination
- 20 x 26 in / 50 x 66 cm wide, uniform beam at working height
- Sealed construction prevents damage from water, vapor or dust
- 4 independent LED modules
- Angled mounting brackets
- No hot-spots in the beam profile
- Rugged, durable design
- No internal fan
- Low energy consumption
- Aerospace prime and OEM certified
- Improved operator and environmental safety
- Certified to ASTM, AITM, RRES and Nadcap

**SPECIFICATION COMPLIANCE**

- Airbus AITM6-1001
- ASTM E2297
- ASTM E3022
- ISO 3059
- Rolls Royce RRES 90061

**PART NUMBER**

628243