

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

Peak UV-A Wavelength	365 ±5 nm
Inspection Working Distance ASTM E3022 RRES 90061	8 in / 20 cm 23-54 in / 58-137 cm
Stabilization Time	10 min
Visible Light in UV Mode	< 1 fc / 10 lux
Visible Light in Visible Light Mode	60 fc / 600 lux at 36 in / 90 cm
Control Cord Length	10 ft / 3 m
Power Supply Cord Length	12 ft / 3.6 m
Weight	25 lb / 11 kg
Power In	100-240 VAC, 50/60 Hz, 2A max

USE RECOMMENDATIONS

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

UV-A COVERAGE

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

FEATURES

- 7,000 μW/cm² 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