

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. 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.

The IP65 aluminum case stands up to harsh environments and a range of mounting and angling options allow it to be set up anywhere in the inspection process; from mag benches to wash stations.



BENEFITS

Speed up the inspection process

- Inspect more of the part at once thanks to the ultra-wide beam
- 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

Minimize risk of missing indications

- Indications stand out bright and clear due to high intensity LED technology
- Mount the light out of the way, up to 46 in / 117 cm above the inspection surface while still maintaining inspection level intensity

Work in comfort

- Easily maintain and changeover equipment with built-in white light

FEATURES

- High intensity compliant UV-A illumination
- 20 x 26 in (50 x 66 cm) wide, uniform beam
- on standard model at 36 in (90cm)
- IP65 sealed construction prevents damage from water, vapor or dust
- Angled mounting brackets
- No hot-spots in the beam profile
- No internal fan necessary
- Aerospace prime and OEM certified
- Certified to ASTM, AITM, Rolls Royce RRES and Nadcap

PRODUCT PROPERTIES

| Part Numbers | 628243 (North America) 628244 (Europe) 628245 (China) | 629257 (5k Europe) |
|--|---|--------------------------------------|
| Max UV-A Intensity at 15 in / 38 wcm at 36 in / 90 cm at 46 in / 117 cm | 7,000 $\mu\text{W}/\text{cm}^2$ 3,000 $\mu\text{W}/\text{cm}^2$ > 1,000 $\mu\text{W}/\text{cm}^2$ | 5,000 $\mu\text{W}/\text{cm}^2$ |
| UV-A Beam Profile at 15 in / 38 cm | 13 x 25 in / 32 x 64 cm | 11 x 22 in / 28 x 56 cm |
| UV-A Beam Profile at 36 in / 90 cm Working Distance | 20 x 26 in / 50 x 66 cm | – |
| UV-A Beam Profile at 46 in / 117 cm Max Inspection Area | 22 x 25 in / 55 x 64 cm | – |
| Peak UV-A Wavelength | 365 \pm 5 nm | |
| Inspection Working Distance ASTM E3022 Rolls Royce RRES 90061 | 8 in / 20 cm 23-54 in / 58-137 cm | 8 in / 20 cm 15-54 in / 38-137 cm |
| Stabilization Time | 10 min | |
| Visible Light in UV Mode | < 1 fc / 10 lux | |
| Visible Light in Visible Light Mode | 60 fc at 36 in / 600 lux at 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 | |

PART NUMBERS

| Series | Model | What's Different? | Part Number |
|--------|---------------|---|-------------|
| ST700 | North America | North American Type B Electrical Plug | 628243 |
| | Europe | European Type F Electrical Plug | 628244 |
| | China | Chinese Type I Electrical Plug | 628245 |
| | 5k Europe | Low Intensity 5,000 $\mu\text{W}/\text{cm}^2$, European Electrical Plug | 629257 |

SPECIFICATION COMPLIANCE

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

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 |