

EV6000

HAND-HELD LED UV LAMP

手持式LED黑光灯

The EV6000 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.

EV6000 LED黑光灯是一款便携式,手持黑光灯。用于荧光无损检测,例如荧光渗透探伤,荧光磁粉探伤。

The EV6000 features a uniform beam with no hot-spots and a 9 in / 23 cm wide beam, 33% wider than the next widest hand-held UV lamp in the industry.

EV6000具有无热点均匀光束,光束宽度达到9英寸/23厘米。比同行业其他手持式黑光灯辐照宽度大33%以上。

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

定制的光学组件提供高强度且均匀覆盖的UV-A光束,易于识别缺陷。集成的滤光片确保最少的可见光通过,提高检测的可靠性。

The EV6000 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.

EV6000已经通过无损检测LED黑光灯标准,航空航天Prime及OEM光谱与光束强度分布认证。每一台设备发货时都附带其符合或超过所有现有的荧光渗透和荧光磁粉探伤标准的制造商合格证。



Benefits 优势**Minimizes time to inspect parts****最小化检测时间**

- Speeds up inspection time with one of the widest, most even beams on the market.
以目前市场上辐照面最广最均匀的紫外光使检测时间缩短。
- Indications are clearly visible even at the edge of the 9 inch / 23 cm beam, thanks to the high intensity LEDs.
凭借高强度LED,即使在9英寸/23厘米辐照面边缘的缺陷也可清晰显示。

Maximize range of inspections**最大化检测范围**

- Inspect a wide range of components, including aerospace parts, without worry.
可用放心来检测包括航空部件在内的多种部件。
- Full NDT specification compliance, including ASTM E3022 and RRES 90061.
符合包括ASTM E3022和RRES 90061在内的全部无损检测标准。

Increases real-world reliability**真正的提高可靠性**

- Reduces on-the-job downtime with dependable, reinforced construction.
凭借可靠强化的结构,减少停工时间。
- Fully sealed housing will stand up to the elements, along with a fan-less cooling system and non-clouding lens for reliable, consistent inspections.
全密封的外壳可以在多环境下使用,无风扇冷却系统和防雾镜片使检测效果一贯的可靠。
- NDT-focused engineering and dependable construction.
专注于无损检测的设计和可靠的结构。

Safer working conditions with LED technology**LED技术提供更安全的工作环境**

- Removes the possibility of operator burns through cool LED technology.
冷光源LED技术使操作者不再有被烫伤的可能。
- Eliminates hazardous mercury vapor waste disposal for safer working conditions.
不再需要处理有害的汞蒸气,更加安全。

Features 特性

- 9 in / 23 cm wide, uniform beam
9英寸/23厘米直径的圆形光束
- No hot-spots in the beam profile
辐照光束均匀,无耀斑,无盲区
- Rugged, durable design
坚固耐用性设计
- No internal fan
无内置风扇
- Low energy consumption
低能耗
- Aerospace prime and OEM certified
航空航天及OEM认证
- Improved operator and environmental safety
提高操作者及工作环境的安全性
- Certified to ASTM, AITM, RRES and Nadcap
ASTM, AITM, RRES及Nadcap认证

Specifications Compliance 符合规范**Specifications / Standards:****技术规格/标准:**

- ASTM E2297
- ASTM E3022
- ISO 3059
- Rolls Royce RRES 90061

Fluorescent Penetrant Testing Specifications / Standards:**荧光渗透探伤技术规格/标准:**

- Airbus AITM6-1001
- ASME BPVC
- ASTM E165
- ASTM E1417
- ASTM F601
- ISO 3452
- NADCAP AC7114/1

Fluorescent Magnetic Particle Testing Specifications / Standards:**荧光磁粉探伤技术规格/标准:**

- ASME BPVC
- ASTM E709
- ASTM E1444
- ASTM E3024
- ISO 9934
- NADCAP AC7114/2

Properties 参数

Maximum Irradiance* 最大辐照度*	5,000 $\mu\text{W}/\text{cm}^2$
Peak Wavelength 波长峰值	365 \pm 5 nm
Typical Beam Profile* 照射范围*	Circular spot, 9 in/23cm diameter, > 1,000 $\mu\text{W}/\text{cm}^2$ UV-A intensity 圆形光斑, 直径为9英寸/23厘米, >1,000 $\mu\text{W}/\text{cm}^2$ UV-A强度
Excitation Irradiance 激发辐照度 (347-382 nm)	> 2,000 $\mu\text{W}/\text{cm}^2$
Working Distance 工作距离 ASTM E3022 RRES 90061	Min. WD \leq 6 in / 13 cm Min. WD = 15 in / 38 cm Max. WD = 36 in / 92 cm
Typical Visible Emission 可见光照度 ASTM range (400-760 nm) RRES 90061 range (390-800 nm)	\leq 2 ft-candles* \leq 20 lux at 15 in / 38 cm (min. WD) \leq 5 lux at 36 in / 92 cm (max. WD)
Stabilization Time 稳定时间	5 min
Lamp Cord Length 电源线长度 (与灯连接)	17 ft / 5.18 m
Power Supply Cord Length 电源线长度 (与电源连接)	9 ft / 2.75 m
Weight 重量	2 lb / 0.9 kg
Power In 电源输入	100-240 VAC, 50/60 Hz, < 1A

* At 15 in / 38 cm

* 在15英寸/38厘米处

Use Recommendations 使用推荐

NDT Method 无损检测方法	Fluorescent Penetrant Testing and Fluorescent Magnetic Particle Inspection 荧光渗透检测和荧光磁粉检测
Recommended Accessories 推荐附件	UV-A Meter 紫外光辐照计 (件号: 625024) Visible Light Meter 可见光强度计 (件号: 622338) UV-A Safety Glasses 紫外光防护眼镜 (件号: 640066)

Part Number 件号

625784 EV6000手持式LED黑光灯