ST300

ST300吊顶式LED黑光灯
STATIONARY INSPECTION LED UV LAMP

ST300是磁通中国新一代吊顶式LED黑光灯,特点是强度高,辐照范围大,且可多台拼接,亮度连续可调,使用更灵活。ST300是专为无损检测行业而设计的荧光渗透探伤和荧光磁粉探伤黑光灯。

优势

提升检测效率

- 凭借更大的辐照范围,单次可检测更多工件。在38厘米工作距离处,辐照范围可达80 x 40厘米。

多台拼接功能

- 针对超大尺寸的零件,可将多台ST300拼接使用,且只需要1个电源,达到超大覆盖范围。

黑光强度连续可调

- 使用控制器实现对UV-A强度得连续调节,以适配不同安装高度,使用更灵活。

温度探测功能

- LED模块具备温度探测功能,随设备温度变化(散热效果),提高电流输出,极大地确保照度的稳定及LED黑光灯的使用寿命。

强大的防水防尘能力

- 满足IP65,可应对检测场合中各种液体溅射以及灰尘

舒适的工作环境

- LED技术,无需风扇散热,保持暗房内温度适宜。

特性

- 7,000微瓦/平方厘米高强度紫外光

- 80 x 40厘米辐照范围 (38厘米距离处,最高亮度为7000微瓦/平方厘米时)

- 控制器控制,操作便捷;可实时显示灯体温度,并具有超温报警功能

- 密封的结构有效防止水汽与灰尘带来的损坏,可达IP65防护等级

- 辐照光束均匀,无耀斑,无盲区

- 坚固耐用性设计

- 多台拼接,满足超大工件检测需求

- 被动散热,超静音无内置风扇

- 低能耗

产品参数

紫外光强度-距离38厘米	最大：7,000 μW/cm² (100%照度比例) 出厂设置：4,800μW/cm²
辐照范围-距离38厘米	80 x 40 cm
紫外光强度可调范围：	30~100%
紫外光强度调节步长：	1%
紫外光峰值波长	365 ± 5 nm
稳定时间	10分钟
紫外光模式下可见光强度	小于2 fc / 20 lux
可切换白光模式	是
白光亮度可调范围	40~100%
控制器线缆长度	1米
电源线长度	2米
尺寸	44.8cm X 23.0cm X 16.5cm (长x宽x高)
重量	5.9kg
电源输入	100-240 VAC +/- 10%
IP防护等级	IP65
最大可拼接台数	3台 (一组电源输入)
多台拼接方式	串联连接
多台拼接需要电源数量	1
操作温度	10-50 °C

符合规范

- ASTM E2297
- ISO 3059

件号

645005　　　　ST300吊顶式LED黑光灯
645008　　　　ST300拼接套装

注：如需多台串联请提前说明，需要单独订购拼接套装。拼接套装包含串联电源、关联固定板和串联固定柱。一套拼接套装可拼接两台ST300。

ST300

STATIONARY INSPECTION LED UV LAMP

ST300 is a new generation of stationary LED UV lamp from Magnaflux. It is characterized by high intensity and wide irradiation range. And it can be spliced with multiple units, the brightness is continuously adjustable, and it is more flexible to use. Designed specifically for fluorescent penetrant inspection and fluorescent magnetic particle inspection in the non-destructive testing industry.

Advantages

Improve inspection efficiency

• With a larger irradiation range, more workpieces can be inspected at a time. At a working distance of 38 cm, the irradiation range reaches 80 x 40 cm.

Multiple units splicing

• For oversized parts, multiple ST300s can be spliced together and only require one power supply to achieve ultra-large coverage.

UV irradiation continuously adjustable

• Use the controller to continuously adjust the UV-A intensity to adapt to different installation heights, making it more flexible to use.

Temperature detection function

• The LED module has a temperature detection function that increases current output as the device temperature changes (heat dissipation effect), greatly ensuring the stability of illumination and the service life of the LED black light.

Strong waterproof and dustproof capabilities

• Meets IP65 and can handle various liquid splashes and dust

Comfortable working environment

• LED technology eliminates the need for fans for heat dissipation and maintains a suitable temperature in the darkroom.

Characteristic

• High-intensity UV light up to 7,000 microwatts/cm^2

• 80 x 40 cm irradiation range (at a maximum brightness of 7000 µW/cm^2 at a distance of 38 cm)

• Controlled by a controller, easy to operate; it can display the lamp body temperature in real time and has an over-temperature alarm function

• The sealed structure effectively prevents damage caused by water vapor and dust, reaching IP65 protection level

• Uniform irradiation beam, no flares, no blind spots

• Rugged and durable design

• Multiple splicing machines to meet the inspection needs of oversized workpieces

• Passive cooling, ultra-quiet without built-in fan

• Low energy consumption

PARAMETERS

UV Light Intensity - Distance 38 cm	Maximum: 7,000 µW/cm² (100% illumination ratio) Default setting: 4,800 µW/cm²
UV Irradiation Range - Distance 38 cm	80 x 40 cm
UV Irradiation Adjustable Range:	30~100%
UV Light Intensity Adjustment Step Size:	1%
UV Peak Wavelength	365 ± 5 nm
Stabilization Time	10 minutes
Visible Light Intensity In UV Mode	Less than 2 fc / 20 lux
Switchable White Light Mode	Yes
White Light Brightness Adjustable Range	40~100%
Controller Cable Length	1 meter
Power Cord Length	2 meters
Size	44.8cm X 23.0cm X 16.5cm (length x width x height)
Weight	5.9kg
Power Input	100-240 VAC +/- 10%
IP Protection Level	IP65
Maximum Number of Units that can be Spliced	3 units (power input only required for main control lamp)
Multiple Splicing Methods	In series
Number of Power Supplies Required for Splicing Multiple Units	1
Operating Temperature	10-50 °C

SPECIFICATION COMPLIANCE

- ASTM E2297
- ISO 3059

件号PART NUMBERS

645005	ST300 STATIONARY LED UV LAMP
645008	ST300 SPLICING KIT

*Note: if multiple units are spliced, #645008 ST300 splicing kit is required.

The ST300 splicing kit (P/N: 645008) includes one series power cord, one fixing plate and one fixing post. One splicing kit can splice two ST300s.