

Ultra High Power UV Curing System

(world's highest optical power density 365nm LED, continuous operation)

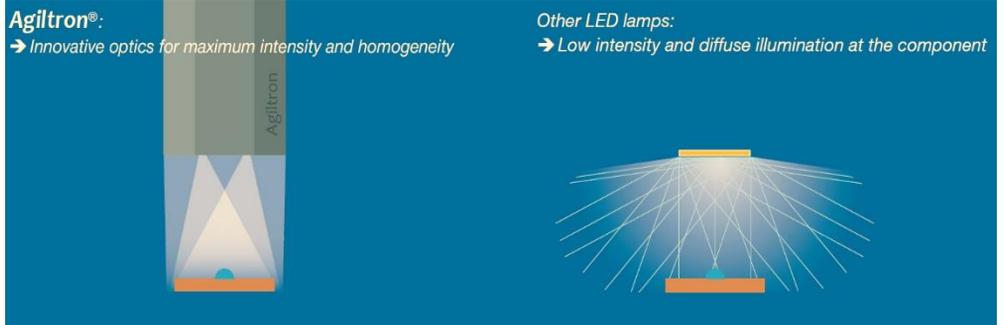
Product Description

This UV LED spot light burns paper with an output power density exceeding legacy mercury UV lamps. It is the most powerful device on the market. The design leverages multi-year military UV gear developments, realizing a ruggedized manufacturing tool for the mass market.

The 365nm UV light features fast/deep epoxy curing, continuous long operation, homogeneity illumination, compact size, ease of use, and longevity. The hand-held UV light can be switched on/off either by a finger press or a foot pedal and has a timer.



Advanced Features



Agiltron®:
→ Innovative optics for maximum intensity and homogeneity

Other LED lamps:
→ Low intensity and diffuse illumination at the component

Applications

- UV adhesive cure
- UV coating

Optical Lens System For Maximum Intensity and Homogeneity

The special LED and lens system delivery high UV light intensity that burns paper (no competitor can achieve). The optics also enables homogeneity over the entire irradiation area as illustrated above.

Cooled LED For Constant Light Intensity and Long Lifetime.

For constant light intensity and long lifetime, high power LED modules require temperature cooling. With integrated fan and special heat sinks, our spot light can operate continuously for a day without intensity change.



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Performance Specifications

Parameter	Description	Unit
Wavelength	275, 365±5, 385±5, 405, 440	nm
Optical Power Density (4mm spot)	3.2 – 5.5 *	W/cm ²
Optical Power Density (25mm spot)	100-150*	mW/cm ²
LED Electrical Power	14	W
Cure Time Range	10 seconds to 60 minutes	
UV Spot Size	Φ4 to 50	mm
Working Distance	20 to 100	mm
Cooling Method	air blowing	
Operation Life	> 25,000	hours

* measured at the illuminating object, not at the LED chip. Some spot vendor only report value measured at the chip

Electrical Specifications

Component	Parameter	Unit
Power supply	AC 100 ~ 240	V
Fuse	1	A

Mechanical Footprint Dimensions

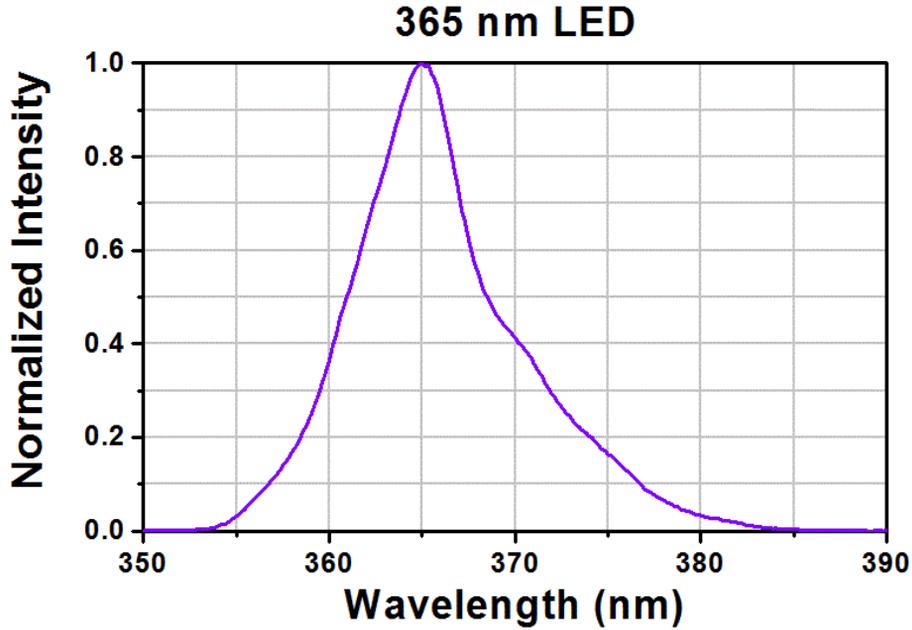
*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Component	Dimensions	Unit
UV cure head	Φ30 x 142	mm
Driver	170 W x 180 D x 65 H	mm



Solid State UV Spot Light

Emission Spectrum



Ordering Information

SUVA-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>
	Package	Wavelength	Beam Size	UV Power	UV Head Cord Length		Cure Time	Foot Switch
	Standard = 01 Special = 00	365 nm = 1 385 nm = 2 275 nm = 3 405 nm = 4 440 nm = 5	Φ4 mm = 1 Special = 0	Standard = 1 Special = 0	1.5 m = 1 Special = 0		10 sec. - 60 min. = 3 Special=0	Yes = 1 No = 0

*Please contact Agiltron to discuss special configurations.
Replacement parts can be ordered separately.*

