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# Handheld UV Flood Light

(world's highest optical power density 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 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.



## Performance Specifications

Parameter	Description	Unit
Wavelength	275, 360, 380, 400, 440, 450	nm
Optical Power Density	0.8 *	W/cm <sup>2</sup>
LED Electrical Power	55	W
Cure Time Range	10 seconds to 60 minutes	
UV Spot Size	50 to 100	mm
Working Distance	30 to 100	mm
Cooling Method	air blowing	
Operation Life	> 30,000	hours

\* measured at the illuminating object, not at the LED chip for wavelength >350nm. 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

Component	Dimensions	Unit
Handset	55 x 52 x 148	mm
Controller	160 x 150 x 80	mm

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

## Questions and Answers

**Q:** What is the best wavelength I should choose if my epoxies have a wide range of curing wavelengths?

**A:** All epoxies can be cured at a shorter wavelength since these UV lights are more energetic and provide better and deeper curing. However, not all epoxies can be cured at a longer wavelength that requires a special formulation to be cured thoroughly.

**Q:** If I want to cure a UV epoxy through a piece of transparent plastic, what wavelength head should I choose?

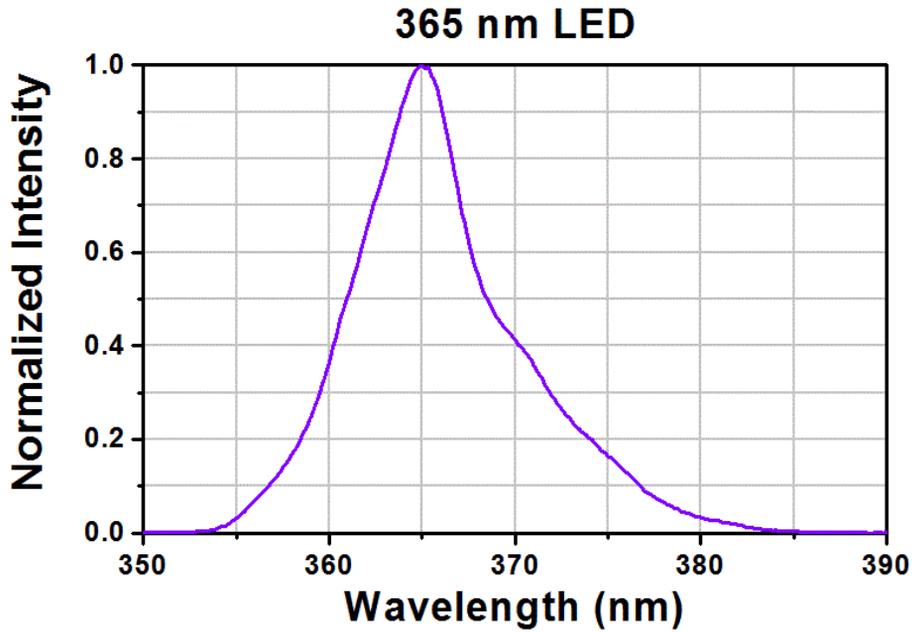
**A:** Transparent plastic blocks 365nm UV light. Therefore one needs to choose an epoxy that can be cured at 450nm and choose the matching head.

**Q:** Is the UV head output power calibrated?

**A:** The output power of each UV head is tested to meet the range stated on the datasheet. Since the output power of each UV head is highly sensitive to the actual sample position, we recommend customer to calibrate the power density using a power meter in place of the sample. The power can be changed by adjusting the UV head position using our holder or by setting it in the four-head control box.

# Solid State UV Spot Light

## Emission Spectrum Example



## Ordering Information

SUVA-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Wavelength	Lens	UV Power	UV Head Cord Length	Handset	Cooling Fan	Foot Switch
	Flood = 02 Special = 00	360 nm = 1 380 nm = 2 400 nm = 3 450 nm = 4 275 nm = 5 440 nm = 6	Standard = 1 Special = 0	Standard = 1 Special = 0	1.8 m = 1 Special = 0	Yes = 1 No = 0	Standard = 1 Special = 0	Yes = 1 No = 0

