

OmniCure®

UV Curing • In Control

OmniCure AC8150/P, AC8225/P and AC8300

Large Area UV LED
Curing Systems for
Adhesives, Coatings and Inks



Outstanding optical performance to provide high irradiance at varying working distances

Superior uniformity with the ability to adjoin multiple UV LED heads

Exceptional process control to achieve repeatable curing results

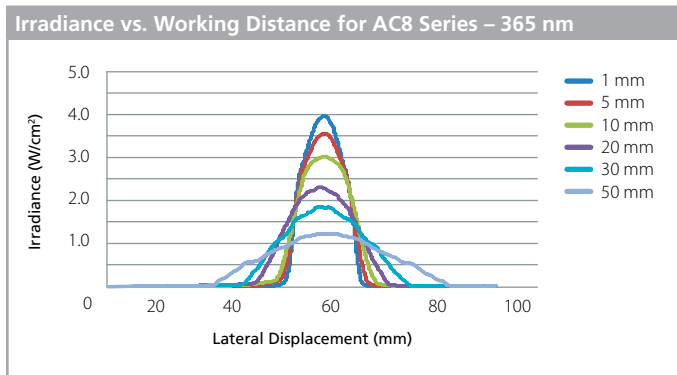
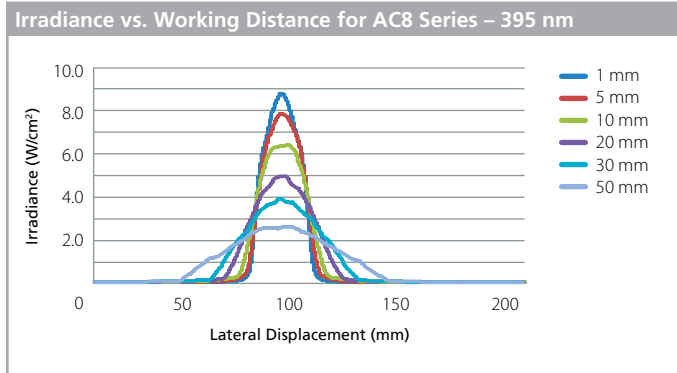
Compact air-cooled UV LED design for ease of integration

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TECHNOLOGIES®

www.excelitas.com

Outstanding Optical Performance

The OmniCure® AC8150, AC8150P, AC8225, AC8225P, and AC8300 air-cooled UV LED curing systems are designed with advanced front-end optics to provide high power, high peak irradiance and exceptional uniformity at different working distances. The systems deliver over 8 W/cm² peak irradiance for fast, even curing at long working distances. P versions of the AC8 Series (AC8150P and AC8225P) have enhanced optics to optimize the dose for short working distances required by print applications. By adapting the output to support the process requirements of the industry, the new AC8 Series product portfolio can be applicable for a range of varying applications with different process needs.



Exceptional Process Control

For a repeatable curing process, precise control of the UV irradiance level and time ensures that the correct dose of UV energy is provided on every exposure. Multiple wavelengths are available to match the requirements of the material to be cured. Intelligent system monitoring and control ensures system reliability meets the demands of any application.

Ease of Integration

OmniCure UV LED curing systems utilize air-cooled LED technology in a compact design allowing for seamless integration into new or existing production lines. The innovative design eliminates the need for costly retooling, external cooling or ozone extraction. The curing systems can also be mounted in any orientation for greater flexibility. External mechanical and optical accessories are also available upon request.

Mechanical Drawings

Mechanical drawings are available on our website. To find out more about the OmniCure AC Series of UV LED curing solutions, please visit www.excelitas.com/omnicure

All performance data is measured using spectrometer and are NIST traceable.



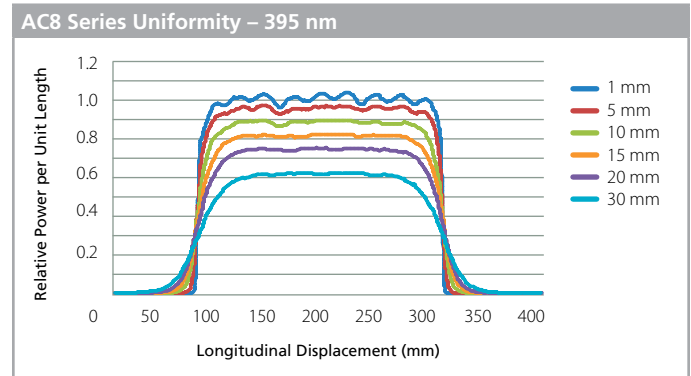
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Superior Uniformity

The OmniCure AC8 Series utilizes a patented process for addressing individual UV LED module outputs, and providing exceptional uniformity over the entire curing area. Multiple UV LED heads can be adjoined while maintaining optical uniformity between each system. The flexibility to achieve larger curing areas in a variety of customizable lengths enables manufacturers to improve throughput without compromising on performance.



Technical Specifications

		AC8150		AC8225		AC8300	
LED Peak Wavelengths		365 nm ± 5 nm, 395 nm ± 5 nm					
Active Optical Area		150 x 25 mm		225 x 25 mm		300 x 25 mm	
Power Consumption*		956 W		1430 W		1904 W	
Typical Peak Irradiance (W/cm ²)		365 nm	395 nm	365 nm	395 nm	365 nm	395 nm
Working Distance	1 mm	4.0	8.5	4.0	8.5	4.0	8.5
	10 mm	3.0	6.2	3.0	6.2	3.0	6.2
	20 mm	2.3	4.5	2.3	4.5	2.3	4.5
	30 mm	1.9	3.8	1.9	3.8	1.9	3.8
	40 mm	1.5	3.0	1.5	3.0	1.5	3.0
	50 mm	1.2	2.5	1.2	2.5	1.2	2.5
Optical Power*		133 W	273 W	200 W	410 W	267 W	547 W
Longitudinal Uniformity*		Better than ± 10%					
Operating Voltage		48 V DC ± 2 V					
Dimensions (L x W x H)		159 x 80 x 218 mm		235 x 80 x 218 mm		311 x 80 x 218 mm	
Weight (kg)		3.6	2.5	4.4	2.7	5.2	2.9
Cooling		Air					
Life Expectancy		> 20,000 hours					
Automation		Integrated PLC controls for UV intensity and system alarms					
LED Warranty		2 years or 10,000 service hours					

*At 100% intensity setting.