

OmniCure®

OmniCure® AC8+ Series 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



excelitas®

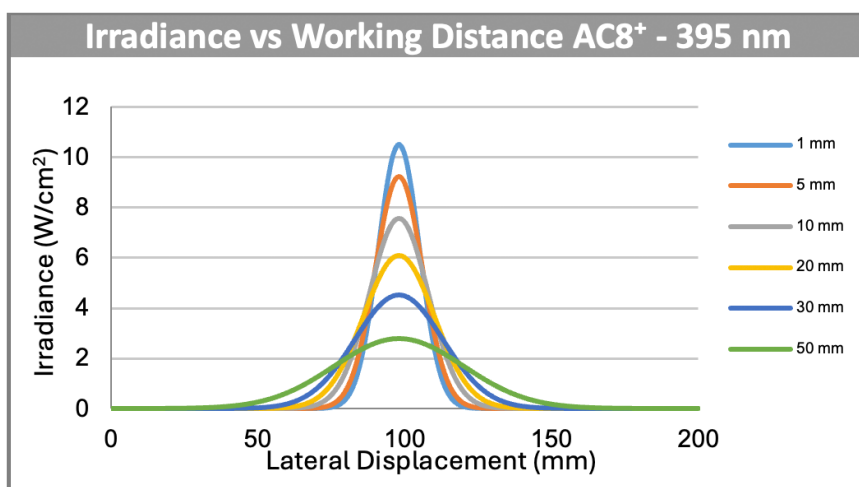
ENGINEERED FOR OUTSTANDING OPTICAL PERFORMANCE AND RELIABILITY

The new OmniCure® AC8⁺ Series air-cooled UV LED curing systems are engineered for performance, reliability, and long-term durability. A redesigned UV LED array enhances optical uniformity, while an optimized cooling system lowers LED operating temperatures to optimize LED lifetime.

A removable glass window (standard on P models) protects the LED arrays and can be easily cleaned or replaced to reduce maintenance costs and support sustained operation. High-efficiency air intake filters provide additional protection by preventing harsh contaminants from reaching the LED arrays and system electronics—ideal for demanding manufacturing environments.

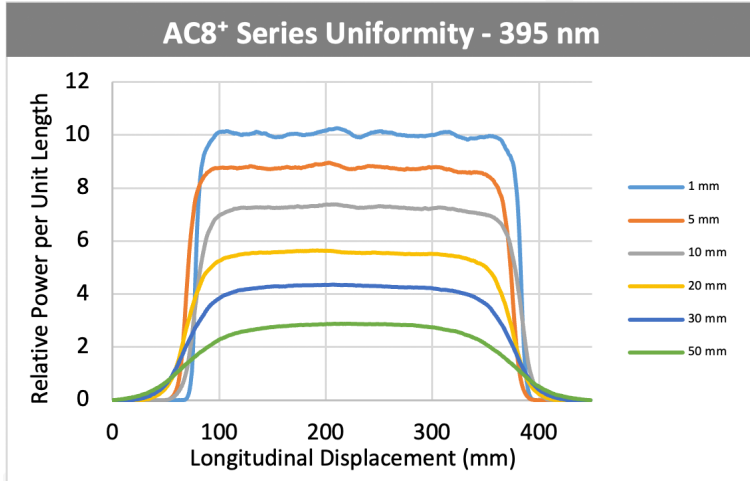
Advanced front-end optics deliver high power, exceptional uniformity, and over 10 W/cm² peak irradiance at 395 nm for fast, uniform curing even at longer working distances. AC8⁺ P models feature enhanced optics that optimize dose at shorter working distances required for print applications. Available models include 365, 385, 395 and 405 nm wavelengths.

By tailoring output to meet specific process requirements, the AC8⁺ Series provides a versatile curing solution suited to a wide range of industrial applications.



Superior Uniformity

Optical uniformity of the new OmniCure AC8⁺ Series has been optimized to deliver outstanding curing performance. Advanced control technology individually controls each UV LED module to ensure exceptional irradiance consistency across the entire curing area. Multiple LED heads can be combined to expand the active curing width while maintaining uniform performance across adjoining units. With a range of available head lengths, manufacturers can scale curing coverage and increase throughput without compromising cure quality.



Exceptional Process Control

For a repeatable curing process, precise control of UV irradiance and exposure time ensures the correct dose of energy is delivered with every exposure. Multiple wavelength options are available to match specific material requirements. Intelligent system monitoring and control enhance reliability to meet the demands of a wide range of applications.

Ease of Integration

OmniCure UV LED curing systems feature compact, air-cooled LED technology for seamless integration into new or existing production lines. The innovative AC8⁺ system design eliminates the need for costly retooling, external cooling, or ozone extraction. Systems can be mounted in any orientation for maximum flexibility, and a range of external mechanical and optical accessories is available upon request.

Backward Compatibility

AC8⁺ Series models are compatible with AC8/9 Series firmware.

Mechanical Drawings

Mechanical drawings available upon request: omni@excelitas.com

Technical Specifications

FEATURE	SPECIFICATION
Estimated LED Life	> 40,000 hours
Variable Intensity Range	20 – 100 %
Longitudinal Uniformity	Better than +/- 5 %
Operating Voltage	48 V DC +/- 2 V
Cooling	Air
Automation	Integrated PLC controls for UV intensity and system alarms
LED Warranty	2 years or 10,000 service hours ¹

¹ Whichever comes first.

MODEL	OPTICAL SIZE (mm)	MAX. POWER CONSUMPTION (W)	OPERATING CURRENT (A)	PEAK WAVELENGTH (nm)	MAX. OPTICAL POWER (W)	PEAK IRRADIANCE (W/Cm ²) ¹
AC8150 ⁺ , AC8150P ⁺	150 x 30	1,128	23	365 385, 395, 405	280 350	8 10
AC8225 ⁺ , AC8225P ⁺	225 x 30	1,694	34	365 385, 395, 405	420 525	8 10
AC8300 ⁺ , AC8300P ⁺	300 x 30	2,256	45	365 385, 395, 405	560 700	8 10

¹ Typical

MODEL	WEIGHT (kg)	DIMENSIONS L x W x H (mm)
AC8150 ⁺ , AC8150P ⁺	2.0	159 x 80 x 218
AC8225 ⁺ , AC8225P ⁺	2.5	235 x 80 x 218
AC8300 ⁺ , AC8300P ⁺	3.7	311 x 80 x 218





+1 503 439 6446

+1 800 668 8752
USA and CAN

2545 Railroad Street, Suite 300
Pittsburgh, PA 15222
United States

excelitas.com
omnicure@excelitas.com

For a complete listing of our global offices, visit www.excelitas.com/locations

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