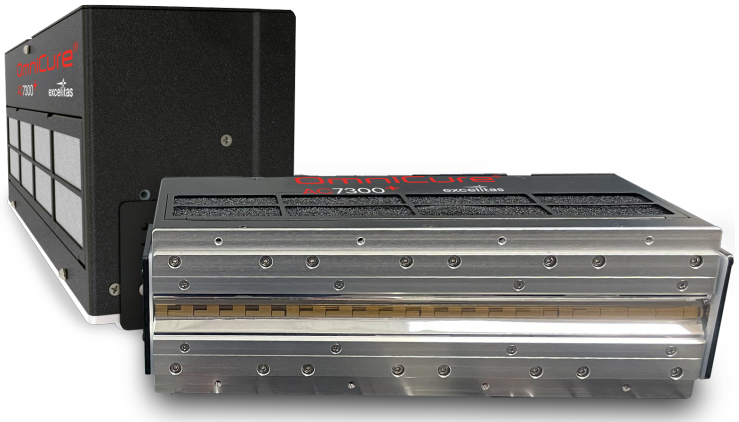
OmniCure®

OmniCure® AC7+ Series Large Area UV LED Curing Systems

- Ideal for adhesive and coating applications such as displays, touch panels, thin films and fibers
- Exceptional irradiance performance to accommodate different working distances
- Superior optical uniformity for consistent curing results
- Proprietary LED segment control for optimal performance across single or joined units

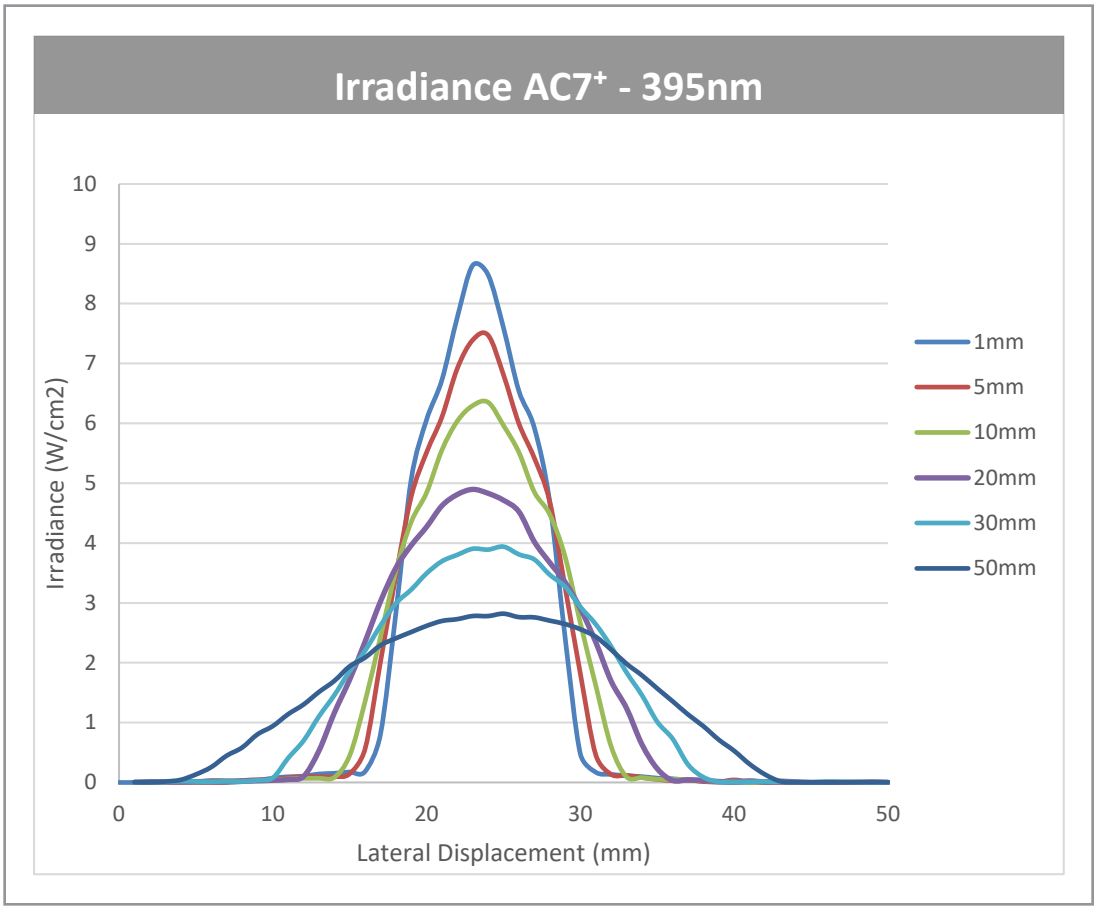


excelitas®

LARGE AREA UV LED CURING SYSTEMS FOR ADHESIVE AND COATING APPLICATIONS

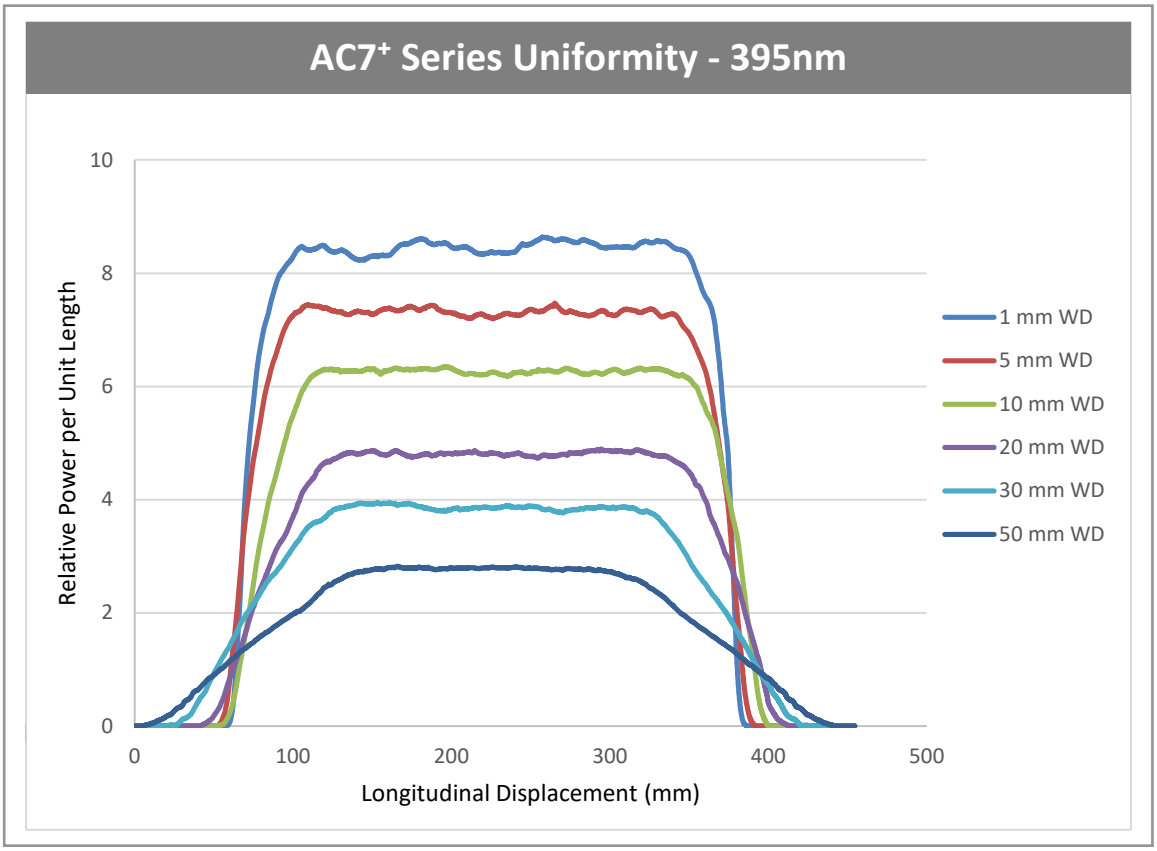
The new **OmniCure® AC7⁺ Series** builds on the proven success of the AC7 platform, delivering higher irradiance, superior uniformity, and enhanced system intelligence for demanding industrial curing applications. Featuring advanced segment-level control, integrated RS485 communication, improved thermal management, and scalable curing widths, the AC7⁺ enables faster production speeds, greater process consistency, and simplified integration.

Available in 150 mm and 300 mm curing widths, the scalable air-cooled AC7⁺ Series provides exceptional flexibility, reliability, and ease of integration for demanding manufacturing environments.



Exceptional Irradiance Performance

The AC7+ Series delivers exceptional curing performance through a redesigned optical and thermal architecture that maximizes irradiance across a broad range of working distances. Engineered to provide high UV output with outstanding dose delivery, the AC7+ enables faster curing speeds, increased manufacturing throughput, and greater process flexibility for demanding adhesive and coating applications. Advanced front-end optics with an improved lense holder design optimize UV delivery where it is needed most, while improved thermal management ensures stable and consistent performance over extended operating periods as well as longer LED lifetimes. With peak irradiance exceeding 7.5 W/cm² and up to 40% higher output compared to the previous generation platform, the AC7+ provides the power and process margin required to achieve reliable, repeatable curing results.



Unmatched Thermal Control

Not every LED array design is created equally. Our highly experienced optical engineers are meticulous about thermal design to ensure optimum output stability and wavelength accuracy for a consistent and repeatable curing process. The new AC7+ Series thermal design architecture includes an improved heatsink design that provides higher cooling capability, leading to lower LED temperatures and longer LED lifetimes.

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. Several wavelength options are available to match specific material requirements. Intelligent system monitoring and control capabilities, including AC8 series commands now available in the AC7+ Series, 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 AC7+ 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. New high efficiency VOC filters reduce LED array exposure to a wide range of VOCs (solvents, acetates, sulphates, etc.) to provide added protection against LED module degradation in harsh manufacturing environments. The new optional external protective window helps protect the focusing lens and simplifies maintenance. The AC7+ series includes a new RS485 port for expanded communication options.

Backward Compatibility

AC7+ Series models support full backward compatibility with AC7 Series firmware.

Mechanical Drawings

Mechanical drawings available upon request: omni@excelitas.com

Technical Specifications

FEATURE	SPECIFICATION
LED Lifetime	> 40,000 hours[1]
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 Typical

MODEL	OPTICAL SIZE (mm)	MAX. POWER CONSUMPTION (W)	OPERATING CURRENT (A)	PEAK WAVELENGTH (nm)	MAX. OPTICAL POWER (W)	PEAK IRRADIANCE (W/Cm²)[1]
AC7150+	152 x 15	330	10.4	365	40	>5.6
				385, 395, 405	80	>7.5
AC7300+	304 x 15	650	20.7	365	80	>5.6
				385, 395, 405	160	>7.5

1 Typical

MODEL	WEIGHT (kg)	DIMENSIONS L x W x H (mm)
AC7150+	3.6	152 x 100 x 148
AC7300+	5..2	305 x 100 x 148

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