

OmniCure®

UV Curing • In Control

OmniCure AC7150 and AC7300

Large Area UV LED Curing Systems for Adhesive and Coating Applications



Ideal for adhesive and coating applications such as displays, touch panels, thin films and fibers

Exceptional irradiance performance to accommodate different working distances

Superior uniformity to maximize the addressable curing area

Flexibility with control for repeatable curing results

Compact, air-cooled LED design for ease of integration

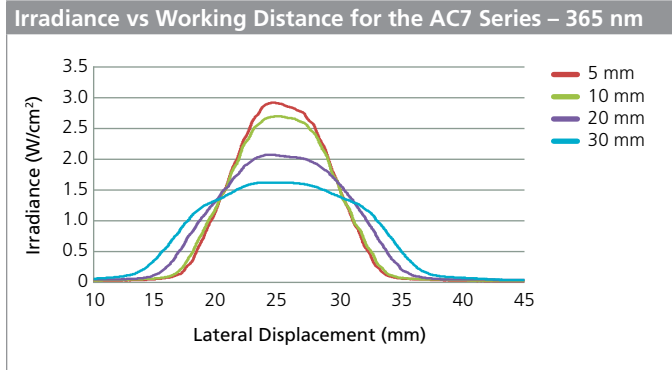
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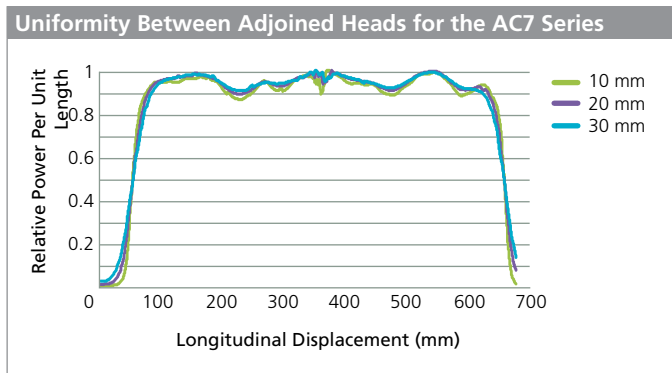
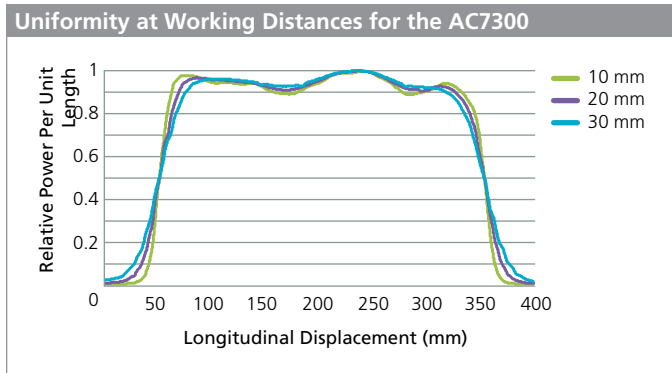
Exceptional Irradiance Performance

Innovatively designed with advanced front-end optics, the OmniCure® AC7150 and AC7300 air-cooled, LED curing systems allow for fast, even curing by providing high peak irradiance at long working distances with extended clearance from conveyed parts. The customized optics offer maximum flexibility in focusing the light at specific working distances and easily adapts to specific UV process needs.



Superior Uniformity & Extendible

The OmniCure AC7150 and AC7300 provide high longitudinal uniformity to ensure consistent and repeatable curing of all parts over the entire 150 mm (6") to 300 mm (12") curing area. Multiple systems can be adjoined side-by-side in any combination of the AC7150 and AC7300 to extend the addressable curing area and meet any application size without compromising optical performance.



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

Flexibility with Control

Precise control of the UV irradiance level and time ensures that the correct dose of UV energy at the required wavelength is provided on every exposure for a repeatable curing process. Intelligent system monitoring and control ensures system reliability meets the demands for any application.

Ease of Integration

The air-cooled, compact LED head design eliminates the need for external cooling or ozone extraction while simplifying integration. The curing systems can be mounted in any orientation with external mechanical and optical accessories available for maximum flexibility.

Technical Specifications

		AC7150		AC7300	
LED Peak Wavelengths		365 nm ± 5 nm, 395 nm ± 5 nm			
Active Optical Area		152 x 15 mm		305 x 15 mm	
Typical Irradiance (W/cm²)		365 nm	395 nm	365 nm	395 nm
Working Distance	1 mm	2.8	5.2	2.8	5.2
	10 mm	2.6	4.4	2.6	4.4
	20 mm	2.1	3.6	2.1	3.6
	30 mm	1.6	2.9	1.6	2.9
	40 mm	1.2	2.4	1.2	2.4
	50 mm	1.0	2.0	1.0	2.0
Optical Power*		40 W	80 W	80 W	160 W
Power Consumption*		330 W		650 W	
Longitudinal Uniformity*		± 10%			
Uniformity Between Adjoined Heads		Better than ± 10% at 20 mm or greater working distance			
Operating Voltage		48 V DC ± 2 V			
Dimensions (L x W x H)		152 x 100 x 148 mm		305 x 100 x 148 mm	
Weight		1.8 kg (3.9 lbs)		3.2 kg (7.0 lbs)	
Cooling		Air			
Acoustic Noise		< 65 dBA, load adapting			
Life Expectancy		> 20,000 hours			
Automation		Integrated PLC controls for UV intensity and system alarms			
Warranty		1 year; 10,000 service hours (light engine)			

*At 100% intensity setting

Mechanical Drawings

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

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