OmniCure®
UV Curing • In Control

OmniCure AC8150P-HD, AC8225P-HD and AC8300P-HD

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

- Powerful – achieve unmatched optical output with high peak irradiance and dose
- Easy integration with compact, air-cooled design and streamlined control interface
- Robust and scalable to address multiple cure widths by adjoining UV LED systems
- Unparalleled optical uniformity – along cure length and between adjacent units
- Extraordinary stability and process control

EXCELITAS TECHNOLOGIES®

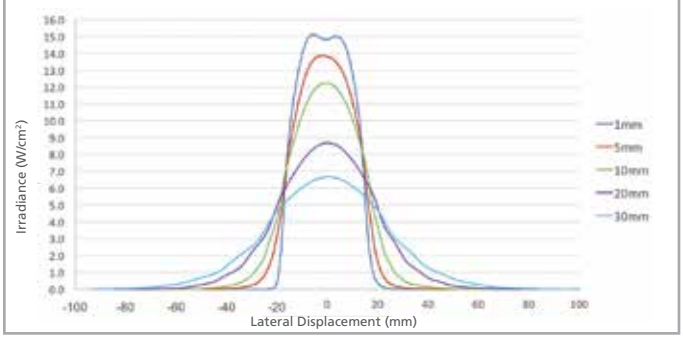
Superior Optical Performance and Output

The OmniCure® AC8-HD Series of products bring air-cooled UV LED curing to the next level. These systems deliver an outstandingly high optical dose, and are designed with a patented technology that enables unbeatable uniformity of output across the irradiation area. Offering three standard cure widths – 6" (150mm), 9" (225mm), and 12" (300mm), these units can be adjoined to customize and achieve countless curing sizes without any compromise in uniformity.

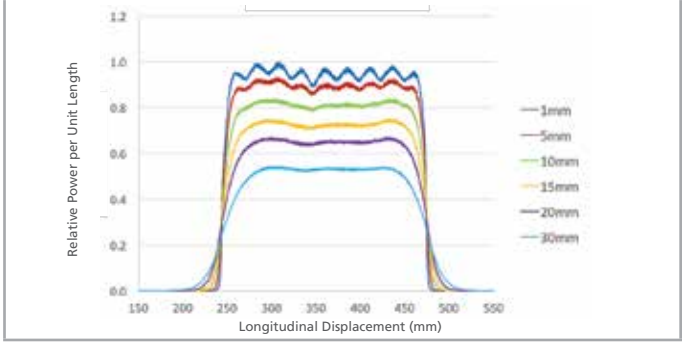
Excelitas Technologies' patented process for addressing individual UV LED module outputs not only enables exceptional uniformity over the entire curing area, but also empowers customers with the ability to customize outputs and benefit from tighter process controls.

The AC8-HD systems deliver over 15W/cm² peak irradiance and double the dose of the standard AC8 Series of products, making these systems ideal for applications that demand high dosage. With the high UV LED output, the AC8-HD Series can support an expanded range of applications, as well as an increase in process speeds. Available in 385nm, 395nm, and 405nm wavelengths, the AC8150P-HD, AC8225P-HD, and AC8300P-HD also bring RS485 functionality for greater flexibility and ease of integration.

Irradiance vs. Working Distance for AC8-HD Series



AC8-HD Series Uniformity



Unprecedented Flexibility

OmniCure's AC8-HD Series offers higher optical power in the same air-cooled mechanical enclosure as its AC8 and AC9 predecessors, allowing existing customers to easily scale production speeds without the inconvenience of implementing any changes in mounting and integration. By sharing the same control interface while also adding RS485 functionality, the AC8-HD systems bring all the benefits of the OmniCure AC Series product portfolio, plus greater dose and flexibility. The systems facilitate the curing of adhesives, coatings, or inks that demand more dose, thus expanding the range of applications that can be addressed with UV LED solutions.

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 (385nm, 395nm & 405nm) 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 maximum flexibility. External mechanical and optical accessories are also available upon request.

Technical Specifications

		AC8150P-HD	AC8225P-HD	AC8300P-HD
LED Peak Wavelengths		385nm +/-5nm, 395nm +/- 5nm, 405nm +/- 5nm		
Active Optical Area		150 x 30 mm	225 x 30 mm	300 x 30 mm
Typical Power Consumption*		1500W	2250W	3000W
Typical Peak Irradiance (W/cm²)				
Working Distance	1 mm	15.1	15.1	15.1
	10 mm	12.2	12.2	12.2
	20 mm	8.7	8.7	8.7
	30 mm	6.7	6.7	6.7
	40 mm	5.0	5.0	5.0
	50 mm	4.0	4.0	4.0
Optical Power*		650W	975W	1300W
Longitudinal Uniformity*		Better than +/-10%		
Operating Voltage		48V DC +/- 2V		
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)		2.8	3.7	5.2
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

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

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OmniCure AC8150/P, AC8225/P and AC8300/P

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

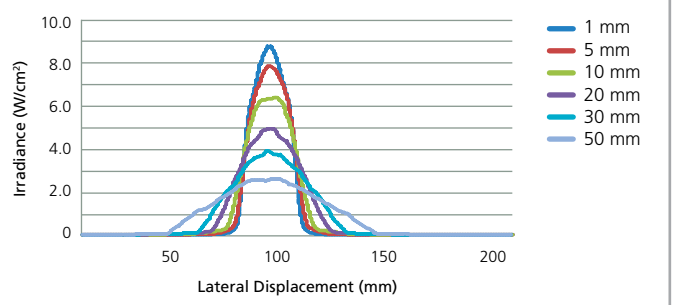
- Outstanding optical performance to provide high irradiance at varying working distances
- Superior uniformity with the ability to adjoin multiple UV LED heads
- Exceptional process control to achieve repeatable curing results
- Compact air-cooled UV LED design for ease of integration

EXCELITAS TECHNOLOGIES®

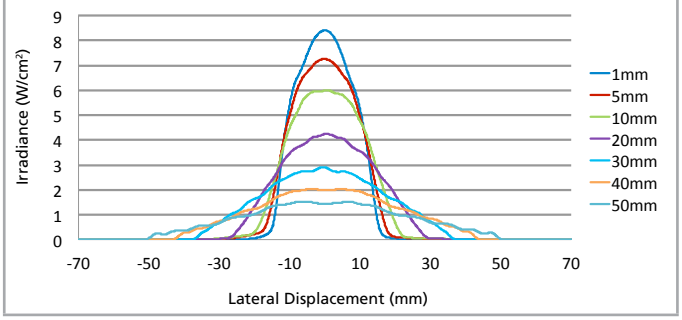
Outstanding Optical Performance

The OmniCure® AC8150, AC8150P, AC8225, AC8225P, AC8300 and AC8300P 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 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.

Irradiance vs Working Distance for AC8 Series – 395 nm



Irradiance vs Working Distance for AC8 Series – 365 nm



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.

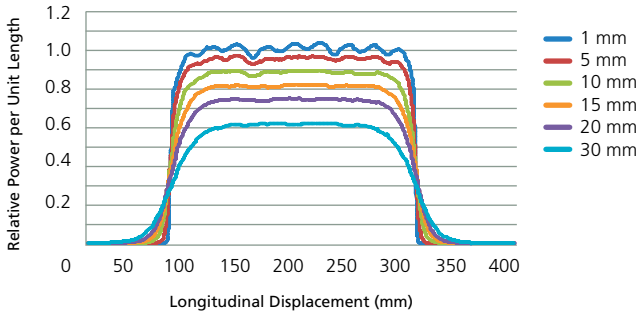
Mechanical Drawings

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

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.

AC8 Series Uniformity – 395 nm



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/cm²)		365 nm	395 nm	365 nm	395 nm	365 nm	395 nm
Working Distance	1 mm	8.0	8.5	8.0	8.5	8.0	8.5
	10 mm	6.0	6.2	6.0	6.2	6.0	6.2
	20 mm	4.2	4.5	4.2	4.5	4.2	4.5
	30 mm	2.9	3.8	2.9	3.8	2.9	3.8
	40 mm	2.0	3.0	2.0	3.0	2.0	3.0
	50 mm	1.5	2.5	1.5	2.5	1.5	2.5
Optical Power*		260 W	273 W	390 W	410 W	520 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

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High Power UV LED Curing Systems for Adhesives, Coatings and Inks

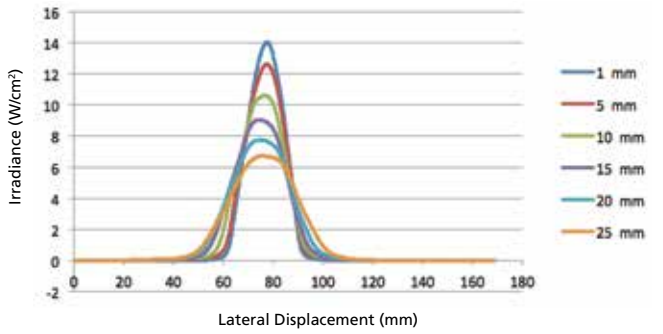
- Outstanding optical performance to provide high irradiance at varying working distances
- Superior uniformity with the ability to adjoin multiple UV LED heads
- Exceptional process control to achieve repeatable curing results
- Compact air-cooled UV LED design for ease of integration

EXCELITAS TECHNOLOGIES®

Outstanding Optical Performance

The OmniCure® AC9150, AC9150P, AC9225, AC9225P, AC9300 and AC9300P 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 14 W/cm² peak irradiance for fast, even curing at long working distances. P versions of the AC9 Series have enhanced optics to optimize the dose for short working distances along with a removable window for easy cleaning to support print applications. By adapting the output to support the process requirements of the industry, the new AC9 Series' product portfolio can be applicable for a range of varying applications with different process needs.

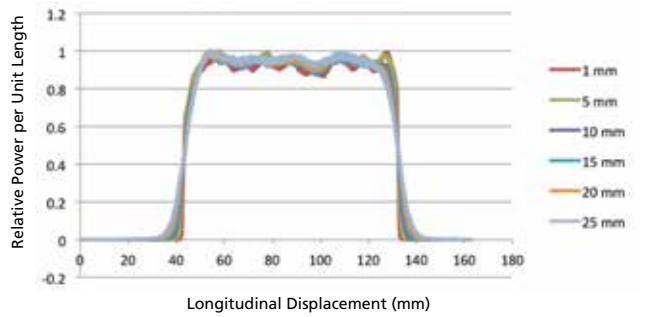
Irradiance vs. Working Distance for AC9 Series – 395 nm



Superior Uniformity

The OmniCure AC9 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.

AC9 Series Uniformity – 395 nm



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. System error detection notifies users for as low as 1% faulty LEDs to ensure process repeatability. 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 upon request. To find out more about the OmniCure AC Series of UV LED curing solutions, please visit www.excelitas.com/omnicure

Technical Specifications

		AC9150/AC9150P	AC9225/AC9225P	A9300/AC9300P
LED Peak Wavelengths		395 nm		
Active Optical Area		150 x 25 mm	225 x 25 mm	300 x 25 mm
Power Consumption*		1058 W	1587 W	2116 W
Typical Peak Irradiance (W/cm²)		395 nm		
Working Distance	1 mm	14	14	14
	5 mm	12.6	12.6	12.6
	10 mm	10.6	10.6	10.6
	15 mm	9.06	9.06	9.06
	20 mm	7.7	7.7	7.7
	25 mm	6.7	6.7	6.7
Optical Power*		365 W	574 W	730 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)		1.8	2.7	3.6
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

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