

Overview UV-LEDs OmniCure[®]

Air Cooled UV LED Systems

The OmniCure **AC275** and **AC2110** UV LED systems are designed with advanced front-end optics to provide high peak irradiance and exceptional uniformity. The AC2 systems provide a reduced output angle from typical LED systems, ideal for printing applications, to help eliminate back reflection of the light to the print heads. All AC2 Series come with a flat outer surface that allows for easy cleaning and replacement for ongoing maintenance.

2	Туре	Peak Irr	adiance	Lens	Short Description					
AC2	Art. No.	in W/cm² @395 nm	in W/cm² @365 nm							
AC275					Active Optical Area: Stackable: Dimensions (L x W x H): Weight:	76 x 10 mm yes 79 x 29 x 129 mm 0.3 kg				
	AC275-365 A009096	./.	3.5	Р	Wavelength: 365 nm:	Туре: АС275-365				
10	AC275-395 A006065	4.7	./.	Р	395 nm:	AC275-395				
AC2110					Active Optical Area: Stackable: Dimensions (L x W x H): Weight:	114 x 10 mm yes 117 x 29 x 129 mm 0.4 kg				
	AC2110-365 A009097	./.	3.5	Р	Wavelength: 365 nm:	Type: AC2110-365				
	AC2110-395 A006066	4.7	./.	Р	395 nm:	AC2110-395				
Options	 Options AC2: Power Supply Unit (PSU), DC supply for AC4 UV LED heads: SC0650, Art. No. A005015 Combined Power / Control cable AC2 Series Power / control cable; L=5m, Art. No. A006068 Controller Box PLC controller box PLC2000 (incl. PLC control cable), Art. No. A005480 									

Detailed UV LED heads information can be found on our separate data sheets.



The OmniCure **AC450** and **AC475** UV LED systems utilize high emission LEDs which achieve 8 W/cm at the optics window. The systems include advanced front-end optics to provide high peak irradiance at long working distances with extended clearance of conveyed parts. This allows for easier curing, or the option of focusing the light at different working distances for adapting to a specific UV process.

4	Type Peak Irradiance Lens Short Description								
AC4	Art. No.	in W/cm ²	in W/cm ²						
4		@395 nm	@365 nm						
AC 450		8.0	4.0 / 8.0		Active Optical Area: Stackable: Dimensions (L x W x H): Weight:	50 x 25 mm no 110 x 68 x 190 mm 1.1 kg			
	AC450-365 A005082 A006939			√ √	Wavelength: 365 nm: 365 nm:	Type: AC450-365 AC450-365 (8 W/cm²)			
	AC450-395 A005083			~	395 nm:	AC450-395			
	AC450P-365 A006124 ./.			P P	365 nm: 365 nm:	AC450P-365 AC450P-365 (8 W/cm²)			
	AC450P-395 A006125			Р	395 nm:	AC450P-395			
AC475		8.0	4.0 / 8.0		Active Optical Area: Stackable: Dimensions (L x W x H): Weight:	75 x 25 mm no 110 x 68 x 190 mm 1.1 kg			
	AC475-365 A005084 ./.			√ √	Wavelength: 365 nm: 365 nm:	Typ: AC475-365 AC475-365 (8 W/cm²)			
	AC475-395 A004991			~	395 nm:	AC475-395			
	AC475P-365 A006126 ./.			P P	365 nm: 365 nm:	AC475P-365 AC475P-365 (8 W/cm²)			
	AC475P-395 A006127			Р	395 nm:	AC475P-395			
Options	 Options AC4: Power Supply Unit (PSU), DC supply for AC4 UV LED heads: SC0650, Art. No. A005015 Power Supply Unit (PSU), DC supply for up to two AC450 LED heads: SC1000, Art. No. A005086 Power Supply Unit (PSU), DC supply for up to two AC475 LED heads: SC2000, Art. No. A005476 Power Supply Unit (PSU), DC supply for up to four AC450 or AC475 LED heads: SC3000, Art. No. A005477 Power Cable: AC 4/5/7/8/9 Series DC power cable 40 A; L=5m, Art.Nr. A008032 Controller Box: PLC controller box PLC2000 (incl. PLC control cable), Art. No. A005480 Control Cable: 								

Seite 2/12

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The OmniCure **AC550** and **AC575** UV LED systems utilize high emission LEDs which achieve 14 W/cm (395 nm) at the optics window. The systems include advanced front-end optics to provide high peak irradiance at long working distances with extended clearance of conveyed parts. This allows for easier curing, or the option of focusing the light at different working distances for adapting to a specific UV process.

10	Туре	Peak Irr	adiance	Lens	Short Description	
AC5	Art. No. in W/cm ² in W/cm ² @395 nm @365 nm					
AC 550	AC550-395 A006614 AC550P-395 A006615	14.0	@303 IIII	√ P	Active Optical Area: Stackable: Dimensions (L x W x H): Weight: Wavelength: 395 nm: 395 nm:	50 x 25 mm no 110 x 68 x 190 mm 1.1 kg Type: AC550-395 AC550P-395
AC575	AC575-395 A006616 AC575P-395 A006618	14.0		√ P	Active Optical Area: Stackable: Dimensions (L x W x H): Weight: Wavelength: 395 nm:	75 x 25 mm no 110 x 68 x 190 mm 1.1 kg Type: AC575-395 AC575P-395
Options	 SC0650, Art. Power Suppl SC1000, Art. Power Suppl SC2000, Art. Power Suppl SC3000, Art. Power Cable AC 4/5/7/8/9 Controller B 	No. A00501 y Unit (PSU) No. A00508 y Unit (PSU) No. A00547 y Unit (PSU) No. A00547 Series DC po ox: er box PLC20 le:	DC supply f DC supply f DC supply f DC supply f DC supply f ower cable 4	for up to for up to for up to 0 A; L=5 C control	5 UV LED heads: two AC550 LED heads: two AC575 LED heads: four AC550 or AC575 LED h 5m, Art.Nr. A008032 I cable), Art. No. A005480 9	neads:



The OmniCure **AC7** Series UV LED systems utilize high emission LEDs which achieve over 5,2 W/cm (395 nm) at the optics window. The systems include advanced front-end optics to provide high peak irradiance at long working distances with extended clearance of conveyed parts.

2	Туре	Peak Irr	adiance	Lens	Short Description	
AC7	Art. No.	in W/cm² @395 nm	in W/cm² @365 nm			
AC 7150	AC7150-365 A006069 AC7150-395 A006070	5.2	2,8	Ρ	Active Optical Area: Stackable: Dimensions (L x W x H): Weight: Wavelength: 365 nm: 395 nm:	152 x 15 mm yes 152 x 100 x 148 mm 1.8 kg Type: AC7150-365 AC7150-395
AC7300	AC7300-365 A006071 AC7300-395 A006072	5.2	2,8	Ρ	Active Optical Area: Stackable: Dimensions (L x W x H): Weight: Wavelength: 365 nm: 395 nm:	305 x 15 mm yes 305 x 100 x 148 mm 3.2 kg Type: AC7300-365 AC7300-395
Options	LED heads c • Power Cable AC 4/5/7/8/9 • Controller B	No. A00501 No. A00508 No. A00508 No. A00547 No. A00547 on of suitable an be found s: Series DC pr ox: er box PLC20 le:	5 5 6 7 9 Power Supp in the table b ower cable 4 000 (incl. PLC	oly Units elow. 0 A; L=5 C control	(PSU) and UV LED heads a im, Art.Nr. A008032 cable), Art. No. A005480 9	nd possible numbers of



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The OmniCure **AC8** Series UV LED systems utilize high emission LEDs which achieve over 8 W/cm (395 nm) at the optics window. The systems include advanced front-end optics to provide high peak irradiance at long working distances with extended clearance of conveyed parts. The 'P' versions of the AC 8 Series (AC8150P and AC8225P) have enhanced optics to optimize the dose for short working distances required by print applications. The 'F' version **AC8225-F**+ is optimized for fiber curing applications.

AC8	Туре	in W/cm ²		Lens	Short Description		
4	Art. No.	395 nm	385 nm	365 nm			
AC8150	AC8150-365 A005468			4.0	~	Active Optical Area: Stackable: Dimensions (L x W x H) Weight (395, 385 / 365 nm):	150 x 25 mm yes 159 x 80 x 218 mm 2.5 / 3.6 kg
	AC815-365 A008519			8.0	\checkmark		
	AC8150-385 A008531		8.0		\checkmark		
	AC8150P-385 A008532		8.0		Р		
	AC8150-395 A005469	8.0			\checkmark		
	AC8150P-395 A005470	8.0			Ρ		
AC8225	AC8225-365 A005471 AC8225-365 A006940 AC8225-385 A008533		8.0	4.0 8.0	✓ ✓ ✓	Active Optical Area: Stackable: Dimensions (L x W x H) Weight (395, 385 / 365 nm):	225 x 25 mm yes 235 x 80 x 218 mm 2.7 / 4.4 kg
	AC8225P-385 A008534		8.0		Ρ		
	AC8225-395 A005472	8.0			✓		
	AC8225P-395 A005473	8.0			Ρ		
AC8225-F+		10.0				Active Optical Area: Stackable: Dimensions (L x W x H) Weight:	225 x 15 mm yes 235 x 80 x 218 mm 2.7 kg
	AC8225-F+395	16.3			F		



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AC8	Туре		ak Irradi in W/cn		Lens	Short Description			
	Art. No.	395 nm	385 nm	365 nm					
AC8300	AC8300-365 A005474 AC8300-365 A007419 AC8300-385 A008535 AC8300P-385 A008536 AC8300P-385 A005475 AC8300P-395 A005475	8.0 8.0	8.0 8.0	4.0 8.0	√ √ P	Active Optical Area: Stackable: Dimensions (L x W x H) Weight (395, 385 / 365 nm):	300 x 25 mm ja 311 x 80 x 218 mm 2,9 / 5,2 kg		
Options	 Options AC8: Power Supply Unit (PSU), DC power supply Power Cable, Control Cable, Controller Box The correlation of suitable Power Supply Units (PSU) and UV LED heads and possible numbers of LED heads can be found in the table below. Information about controller box and cables see below. 								

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The **OmniCure AC8P-HD** UV LED systems use UV LEDs that have more than 15 W/cm² and also have a larger active optical area than the standard AC8. The result is a doubled UV dose compared to the standard AC8. The housing dimensions are the same as for the standard AC8 versions.

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.

0	Туре	Peak Irr	adiance	Lens	Short Description					
AC8P-HD	Art. No.	in W/cm² @385 nm	in W/cm² @395 nm							
A8150P-HD	AC8150P-HD 385 A008522 AC8150P-HD-395 A008523	15.0	15.0	P P	Active Optical Area: Stackable: Dimensions (L x W x H) Weight: Wavelength: 385 nm: 395 nm:	150 x 30 mm yes 159 x 80 x 218 mm 2.8 kg Type: AC8150P-HD-385 AC8150P-HD-395				
AC8225P-HD	AC8225P-HD-385 A008524 AC8225P-HD-395 A008525	15.0	15.0	P P	Active Optical Area: Stackable: Dimensions (L x W x H) Weight: Wavelength: 385 nm: 395 nm:	225 x 30 mm yes 235 x 80 x 218 mm 3.7 kg Type: AC8225P-HD-385 AC8225P-HD-395				
AC8300-HD	AC8300P-HD-385 A008526 AC8300P-HD-395 A008527	15.0	15.0	P P	Active Optical Area: Stackable: Dimensions (L x W x H) Weight: Wavelength: 385 nm: 395 nm:	225 x 30 mm yes 235 x 80 x 218 mm 5.2 kg Type: AC8300P-HD-385 AC8300P-HD-395				
Options	 Options AC8P-HD: Power Supply Unit (PSU), DC power supply Power Cable, Control Cable, Controller Box The correlation of suitable Power Supply Units (PSU) and UV LED heads and possible numbers of LED heads can be found in the table below. Information about controller box and cables see below. 									

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The OmniCure **AC9** Series UV LED systems utilize high emission LEDs which achieve 14 W/cm² at the optics window. The systems include advanced front-end optics to provide high peak irradiance at long working distances with extended clearance of conveyed parts. The 'P' versions of the AC 9 Series (AC9150P, AC9225P and AC9300P) have enhanced optics to optimize the dose for short working distances required by print applications. The 'F' version **AC9225-F** is optimized for fiber curing applications

AC9	Туре	In mV		Lens	Short Description		
	Art. No.	385 nm	395 nm				
AC9150	AC9150-385 A007638 AC9150-395 A006589 AC9150P-395 A006590	14.0	14.0	✓ ✓ ₽	Active Optical Area: Stackable: Dimensions (L x W x H): Weight: Wavelength: 385 nm 395 nm: 395nm:	150 x 25 mm yes 159 x 80 x 218 mm 1.8 kg Type: AC9150-385 AC9150-395 AC9150P-395	
AC9225	AC9225-395 A006591 AC9225P-395 A006592	14.0	14.0	√ P	Active Optical Area: Stackable: Dimensions (L x W x H): Weight: Wavelength: 395 nm: 395 nm:	225 x 25 mm yes 235 x 80 x 218 mm 2.7 kg Type: AC9225-395 AC9225P-395	
AC9225-F	AC98225-F395 A008999	./.	21.8	F	Active Optical Area: Stackable: Dimensions (L x W x H): Weight: Wavelength: 395 nm:	225 x 15 mm yes 235 x 80 x 218 mm 2.7 kg Typ: AC9225-F395	

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Fortsetung AC9:

AC9	Туре		adiance V/cm²	Lens	Short Description			
	Art. No.	385 nm	395 nm					
AC91300	AC9300-385 A007638 AC9300-395 A006593 AC9300P-395 A006594	14.0	14.0	√ √ ₽	Active Optical Area: Stackable: Dimensions (L x W x H): Weight (395 / 365 nm): Wavelength: 385 nm: 395 nm:	300 x 25 mm yes 311 x 80 x 218 mm 3.6 kg Type: AC9300-388 AC9300-395 AC8300P-395		
Options	A006594							

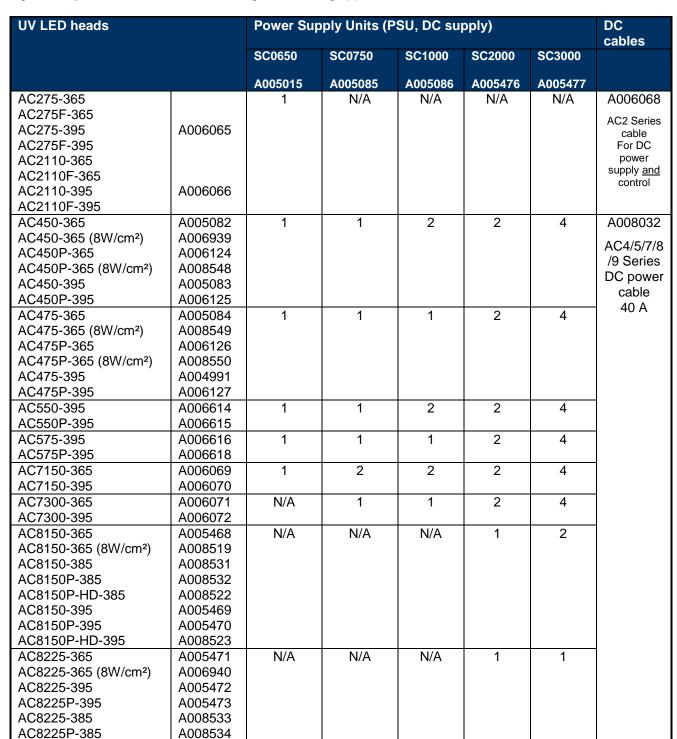
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Options

Configurations of AC Series UV LED heads supported by each SC Series product and cables:

SC Series system controllers are tailored specifically for OmniCure[®] AC Series UV LED curing products. Designed with application flexibility in mind, customers can select the system controller that best meets the needs of their particular curing application The SC0750, SC1000, SC2000 and SC3000 system controllers integrate seamlessly into standard industrial equipment racking, providing multiple power outputs in a robust, high-density, and scalable solution for large area curing applications.





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UV LED heads		Power Su	Power Supply Units (PSU, DC supply)							
		SC0650	SC0750	SC1000	SC2000	SC3000	cables			
		A005015	A005085	A005086	A005476	A005477				
AC8225P-HD-385 AC8225P-HD-395	A008524 A008525	N/A	N/A	N/A	N/A	1 (bei AC 230 V	A008528 AC8 HD series DC power cable for AC8225PHD and AC8300PHD			
AC8225-F+395	A008551	N/A	N/A	1	2	3	A008032 AC4/5/7/8/9 Series DC power cable 40 A			
AC8300-365 AC8300-365 (8W/cm ²) AC8300-395 AC8300P-395 AC8300-385 AC8300P-385	A005474 A007419 A005475 A006584 A008535 A008536	N/A	N/A	N/A	N/A	1	A008033 AC8300 / AC9300 Series DC power cable 60 A			
AC8300P-HD-385 AC8300P-HD-395	A008526 A008527	N/A	N/A	N/A	N/A	N/A	A008528 AC8 HD series DC power cable for AC8225P- HD and AC8300P- HD			
AC9150-395 AC9150P-395	A006589 A006590	N/A	N/A	N/A	1	2	A008032 AC4/5/7/8/9			
AC9225-395 AC9225P-395	A006591 A006592	N/A	N/A	N/A	1	1	Series DC power cable 40 A			
AC9225-F 395	A008999	N/A	N/A	N/A	1	2	A008033 AC 8300 / AC 9300 Series DC power cable; 60 A			
AC9300-395 AC9300P-395	A006593 A006594	N/A	N/A	N/A	N/A	1	A008033 AC8300 / AC9300 Series DC power cable 60 A			

Detailed information of the Power Supply Units (PSU, DC supplies) can be found on our separate datasheet.

Note: Some HD LED heads (e.g., AC8300P-HD-385, AC8300P-HD-395) require DC currents higher than those of the SC Series Power Supply Units. The required currents (at DC 48 V) can be found on the AC8 data sheet. Please contact us if necessary.



PLC Series - Controller Box

The PLC 2000 is an external controller box for AC series UV LED heads.



Detailed information is available on request.

PLC2000

Controller Box: PLC controller box PLC2000 (incl. PLC control cable), Art. No. A005480

Control Cable (except AC2):

PLC control cable HD15 M-F, Art. No. A005479

Please do not hesitate to contact us. Besides other emission wavelengths, we can also offer customized UV-LED systems.