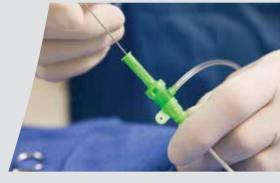


# A Global Leader in UV Curing Solutions

OmniCure® UV Curing Product Catalog















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www.excelitas.com omnicure@excelitas.com **CUSTOMER SERVICE** 

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## What's NEW!

#### OmniCure® AC9225-F

#### **UV LED AREA CURE SYSTEM**

- OmniCure AC9225-F UV LED curing system is specifically designed for fiber curing applications
- Provides the industry with a high output, air-cooled solution to meet the increased process speed demands of the market
- Offers up to 20W/cm² peak irradiance at a working distance of 10-18mm
- Custom optical design to enhance the output and optimize delivery of UV onto the fiber

For more information, refer to page 19.



#### **OmniCure AC8-HD Series**

#### HIGH-DOSE, UV LED AREA CURE SYSTEM

- 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

For more information, refer to page 20.



#### **OmniCure LX500**

### **UV LED SPOT CURE SYSTEM**

- Outstanding optical stability via Intelli-Lamp® LED technology
- Exceptionally high peak irradiance for increased curing efficiency
- Calibration utility to maintain long term stability of UV light
- Unparalleled process control with StepCure® 2.0
- Real-time programming and data logging via Micro SD card

For more information, refer to pages 11-12.







# OmniCure S Series

#### **UV SPOT CURING**

## **OmniCure S1500 Series**

The OmniCure S1500 UV spot curing system has a multitude of built-in features that provide exceptional control, precision and versatility. Features include an adjustable iris, patented Intelli-Lamp® technology, selectable bandpass filters, process alarms and 'lock out' protection.

# **Technical Specifications**

S1500	
Lamp Technology	High Pressure 200 Watt Mercury Vapor Short Arc with integrated Intelli-Lamp®
Lamp Life	Typical effective lamp life of 4000 hours warrantied for 2000 hours
Available Filters	Standard: 320-500nm, Optional: 250-450nm*, 365nm, 320-390nm, 400-500nm
Panel Controls	Power On/Off, LED display, Up/Down adjust buttons, Start/ Stop button
Panel Displays	Accumulated lamp usage, exposure time, iris setting, lamp on/ warm-up status, shutter open, light guide detection, shutter/ lamp error
Input/Output	PLC, RS232
Warm-up Period	4 minutes (typical)
Power In	100-240VAC, 50/60Hz
Dimensions (LxWxH)	13.3" x 7.1" x 7.9" (33.8cm x 18.0cm x 20.1cm)
Weight	9.9lbs (4.5kg)
Warranty	1 year (excluding lamp and light guide)
Irradiance	Up to 23W/cm <sup>2</sup>

<sup>\*</sup> Blank filter; must be used with Fiber or Extended Range Light Guide.

# S1500/S2000 Optional Filters

Part Number	Description
019-01045R	Filter 365nm
019-01046R	Filter 250-450nm
019-01047R	Filter 400-500nm
019-01048R	Filter 320-390nm, requires spare lamp 012-64000R
019-01049R	Filter 320-500nm



With Standard Filter Part # 010-00224R Optional Filter Part # 010-00225R



## OmniCure S Series

#### **UV SPOT CURING**

#### **OmniCure S2000 Series**

Well recognized in the industry as the leader in precision UV spot curing applications, the OmniCure S2000 provides the power, control and repeatability required for high-speed automated assembly. Offering a powerful 200 Watt lamp with a guaranteed life of 2000 hours, the OmniCure S2000 also offers our proprietary Closed-Loop Feedback technology that monitors light output in real time and automatically corrects the light output within +/- 5% to ensure a consistent and repeatable process. When combined with the OmniCure R2000 Radiometer, the OmniCure S2000 UV spot curing system is unmatched in precision and reliability.





With Standard Filter Part # 010-00148R S2000 for Surface Cure Part # 010-00163R Optional Filter Part # 010-00162R

#### **Technical Specifications**

S2000	
Lamp Technology	High Pressure 200 Watt Mercury Vapor Short Arc with integrated Intelli-Lamp®
Lamp Life	Typical effective lamp life of 4000 hours and a guaranteed 2000 hours
Available Filters	Standard: 320-500nm
Available Filters	Optional: 250-450nm*, 365nm, 320-390nm, 400-500nm
Panel Controls	Power On/Off, Up/Down/Mode adjust buttons, Start/Stop button
Panel Displays	Accumulated lamp usage, exposure time, iris setting (0-100%)/irradiance level (0.2W/cm² - 40W/cm²), lamp on/warm-up status, shutter open, light guide detection, shutter/lamp error
Input/Output	PLC, RS232 and Radiometer
Warm-up Period	4 minutes (typical)
Power In	100-240VAC, 50/60Hz
Dimensions (LxWxH)	13.3" x 7.1" x 7.9" (33.8 cm x 18.0cm x 20.1cm)
Weight	9.9lbs (4.5kg)
Warranty	1 year (excluding lamp and light guide)
Irradiance	Up to 23W/cm²

<sup>\*</sup> Blank filter; must be used with Fiber or Extended Range Light Guide. For filter accessories, S1500/S2000 Optional Filters on page 4. For Optical Accessories, see page 10.





## Radiometer Accessories

#### **UV SPOT CURING**

#### **OmniCure R2000 Radiometer**

Radiometry is an essential link for measuring the light output from a UV curing system in order to maintain a repeatable process. The OmniCure R2000 UV Radiometer can be combined with the OmniCure S2000 UV Spot Curing System to provide a complete curing station with unmatched control and repeatability. Special electronics built into the R2000 UV Radiometer also allow for the connection of custom sensors that measure light energy directly at the cure site or within cure ring bonding fixtures.

Part Number	Description
010-00208	OmniCure R2000 Radiometer



**R2000** Part # 010-00208

#### **OmniCure Cure Site Radiometer**

The OmniCure UV Cure Site Radiometer provides ultimate process control by measuring the output power of a light guide or optical accessory directly at the bonding site.

Part Number	Description
010-00261R	Cure Site Radiometer, Single Detector System Includes: Cure Site Detector (010-00255R) and Detector Controller (010-00265R)



Cure Site Radiometer
Part # 010-00261R

# **OmniCure Cure Ring Radiometer**

UV Radiometer Designed for Cure Ring Fixtures

The OmniCure UV Cure Ring Radiometer complements an OmniCure Cure Ring fixture to provide the most accurate form of process control for precision manufacturing. By enabling the output power from the Cure Ring to be measured directly at the cure site, the UV Cure Ring Radiometer ensures an accurate and repeatable bonding process.

Part Number	Description
010-00262R	Cure Ring Radiometer (10mm), Single Detector System Includes: Cure Ring Detector 10mm (010-00254R) and Detector Controller (010-00256R)
010-00263R	Cure Ring Radiometer (15mm ), Single Detector System Includes: Cure Ring Detector 15mm (010-00253R) and Detector Controller (010-00256R)

**Note:** Detector system is used in conjunction with the OmniCure R2000 (010-00208R) which is sold separately.

Cure Ring Radiometer Part # 010-00262R Part# 010-00263R

#### Additional Detectors to build a dual channel system:

010-00255R Cure Site Detector 010-00254R Cure Ring Detector, 10mm 010-00253R Cure Ring Detector, 15mm 010-00256R Cure Site Detector Controller



# **UV Spot Curing Accessories**

#### **UV SPOT CURING**

# **OmniCure Stocked Light Guides**

We offer a full range of liquid and fiber light guides, available in a variety of spot diameters and lengths; even bifurcated, trifurcated and quadfurcated light guides are available as standard stock items. OmniCure also offers in-house custom design capabilities that would allow customers to request unique light guide configurations that will easily adapt to any assembly challenge. If you don't see a light guide that fits into your process, please contact OmniCure for further information.

#### **Liquid Light Guides**

Part Number	Description
805-00002	Liquid Fill, 5mm X 1000mm
805-00004	Liquid Fill, 3mm X 1000mm
805-00007	Liquid Fill, 5mm X 1500mm
805-00008	Liquid Fill, 5mm X 3000mm
805-00009	Liquid Fill, 8mm X 1000mm
805-00010	Liquid Fill, 8mm X 1500mm
805-00011	Liquid Fill, 2 X 3mm X 1000mm
805-00012	Liquid Fill, 2 X 3mm X 1500mm
805-00023	Liquid Fill, 8mm X 2000mm
805-00026	Liquid Fill, 5mm X 1000mm, UVC Series
805-00041	Liquid Fill, 8mm X 1000mm, UVC Series



OmniCure Liquid Light Guides provide a cost effective solution for single spot light delivery.

#### Fiber Light Guides

Part Number	Description
806-00005	High Power Fiber, 2 X 3mm X 1000mm
806-00006	High Power Fiber, 4 X 3mm X 1000mm
806-00007	High Power Fiber, 3 X 3mm X 1000mm
806-00010	High Power Fiber, 2 X 3mm X 1500mm
806-00011	High Power Fiber, 5mm X 1000mm
806-00012	High Power Fiber, 3mm X 1000mm
806-00013	High Power Fiber, 5mm X 1500mm
806-00014	High Power Fiber, 3mm X 1500mm
806-00018	High Power Fiber, 2 X 5mm X 1000mm
806-00019	High Power Fiber, 2 X 3mm X 2000mm



2 legged x 2mm x 1000mm

The OmniCure High-Power Fiber Light Guide provides an equal distribution of light energy to multiple cure sites from a single light source.



# **UV Spot Curing Accessories**

# **UV SPOT CURING**

Non-Stock Liquid Light Guides

Part Number	Description
805-00001	Liquid Fill, 3 X 3mm X 1000mm
805-00005	Liquid Fill, 3mm X 750mm
805-00006	Liquid Fill, 5mm X 750mm
805-00016	Liquid Fill, 2 X 3mm X 3000mm
805-00017	Liquid Fill, 3mm X 3000mm
805-00019	Liquid Fill, 2 X 3mm X 750mm
805-00021	Liquid Fill, 5mm X 2000mm
805-00022	Liquid Fill, 3mm X 1500mm
805-00027	Liquid Fill, 2 X 3mm X 1500mm, UVC Series
805-00028	Liquid Fill, 5mm X 1500mm, UVC Series
805-00030	Liquid Fill, 2 X 3mm X 1000mm, UVC Series
805-00031	Liquid Fill, 3mm X 1000mm, UVC Series
805-00032	Liquid Fill, 3mm X 1500mm, UVC Series
805-00033	Liquid Fill, 2 X 3mm X 750mm, UVC Series
805-00036	Liquid Fill, 2 X 3mm X 2000mm
805-00042	Liquid Fill, 8mm X 1500mm, UVC Series
805-00043	Liquid Fill, 2 X 3mm X 2000mm, UVC Series
805-00044	Liquid Fill, 5mm X 2000mm, UVC Series
805-00045	Liquid Fill, 5mm X 5000mm
805-00047	Liquid Fill, 8mm X 3000mm
805-00049	Liquid Fill, 2 X 3mm X 2500mm
805-00051	Liquid Fill, 3 X 3mm X 1500mm
805-00052	Liquid Fill, 5mm X 3000mm, UVC Series
805-00053	Liquid Fill, 8mm X 2000mm, UVC Series





Note: Light guides available upon request (10-12 week delivery time).

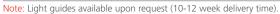


# **UV Spot Curing Accessories**

# **UV SPOT CURING**

**Light Guides** 

Part Number	Description
805-00062R	Quartz Fiber, 2 X 3mm X 1000mm
805-00063R	Quartz Fiber, 4 X 3mm X 1000mm
805-00065R	Quartz Fiber, 3 X 3mm X 1000mm
806-00003	Quartz Fiber, 4 x 2mm x 1000mm
806-00004	Quartz Fiber, 2 x 3mm x 750mm
806-00008	High Power Fiber, 4 x 2mm x 1000mm
806-00015	High Power Fiber, 8mm x 1000mm
806-00016	High Power Fiber, 5 x 2mm x 1000mm
806-00017	High Power Fiber, 6 x 2mm x 1000mm
806-00020	High Power Fiber, mapped light line, 1 leg, 65mm x 0.32mm x 1500mm
806-00021	High Power Fiber, mapped light line, 2 legs, 65mm x 0.32mm x 1500mm
806-00022	High Power Fiber, dual, light line w/ cover
806-00023	High Power Fiber, single, light line w/ cover
806-00026	High Power Fiber, 2 x 3mm x 3000mm
806-00027	High Power Fiber, 2 x 5mm x 1500mm
806-00028	High Power Fiber, 2 x 5mm x 2000mm
806-00029	High Power Fiber, 3 x 3mm x 1500mm
806-00033	High Power Fiber, 4 x 3mm x 1500mm
806-00034	High Power Fiber, 4 x 3mm x 2000mm
806-00036	High Power Fiber, 6 x 2mm x 1500mm
806-00037	High Power Fiber, 3mm x 2000mm
806-00043	High Power Fiber, light line, 1 leg, dual row 65mm x 1500mm









# Accessories

# **UV SPOT CURING**

**Optical Accessories** 

·	
Part Number	Description
809-00083	Quartz Rod Lens 3mm (replaceable)
810-00001	Lightguide angle adaptor, 90° angle for 3mm LG
810-00002	Lightguide angle adaptor, 90° angle for 5mm LG
810-00003	Lightguide angle adaptor, 90° angle for 8mm LG
810-00011	Lightguide angle adaptor, 90° angle for 5mm LG w/single lens
810-00012	Lightguide angle adaptor, 90° angle for 5mm LG w/dual lens
810-00013	Light line assembly (50mm x 0.35mm)
810-00014	Large area collimating adaptor dual 1" lenses for 5mm LG
810-00016	Collimating adaptor for 3mm LG (single lens)
810-00017	Collimating adaptor for 5mm LG (single lens)
810-00041	3mm Adjustable Collimating Adaptor
810-00042	5mm Adjustable Collimating Adaptor
810-00043	8mm Adjustable Collimating Adaptor
810-00044	Cover-For 65mm High Power Fiber, Light line
810-00048	Cure ring, slotted, 63.5mm OD, 10mm ID for 5mm LG
810-00049	Cure ring, no-slot, 63.5mm OD, 10mm ID for 8mm LG
810-00050	Cure ring, no slot, 63.5mm OD, 15mm ID for 5mm LG
019-00108	Kit, External Filter Adaptor Assembly
019-01022	320-480nm External Filter
019-01023	320-390nm External Filter
019-01024	365nm External Filter
019-01025	Blank External Filter
019-01026	400-500nm External Filter



# **UV SPOT CURING**

General Accessories

Part Number	Description
014-00070R	Foot Switch (audio jack)
018-00199R	Power cord, European, shielded
018-00200R	Power cord, North American, shielded
018-00203R	Power cord, UK, shielded
019-00052	Light guide cleaning kit
019-00090R	Protective End Cap, 3mm (Red)
019-00091R	Protective End Cap, 5mm (Blue)
019-00092R	Protective End Cap, 8mm (Green)
019-01010	Dual light guide positioning bushing kit
854-00001R	Safety glasses, UV protection grey, CE rated

# **UV SPOT CURING**

**UV** Lamps



Part Number	Description
012-64000R	Standard Spare 200W Lamp for S2000 and S1500 (for 010-00148R, 010-00162R, 010-00224R and 010-00225R)
012-65000R	Spare 200W Lamp for Surface Curing for S2000 (for 010-00163R)
012-60850	Standard Spare 100W Lamp for S1000, Novacure N2100 and Acticure
012-60650	Spare Novacure lamp For models N2001-A1, N2001-A, N2001, N2000.
300-60651	Ultracure 100SS Plus



## LX Series

#### **UV LED SPOT CURING**

#### **OmniCure LX500**

- Outstanding optical stability via Intelli-Lamp® LED technology
- Exceptionally high peak irradiance for increased curing performance
- Calibration utility to maintain long term stability of UV light
- Unparalleled process control with StepCure 2.0
- Real-time programming and data logging via Micro SD card

Part Number	Description	
010-00369R	OmniCure LX500 Controller - 2 Channel	
010-00375R	OmniCure LX500 Controller - 4 Channel	



# **OmniCure LED MAX HEADS**

Part Number	Description
019-00286R	365nm x 55mm LED UV head HDMI, Incl Clamp Sub-Assy
019-00287R	365nm x 125mm LED UV head HDMI, Clamp Assy NOT Incl
019-00288R	385nm x 55mm LED UV head HDMI, Incl Clamp Sub-Assy
019-00289R	385nm x 125mm LED UV head HDMI, Clamp Assy NOT Incl
019-00293R	400nm x 55mm LED UV head HDMI, Incl Clamp Sub-Assy



#### **Features & Benefits**

#### **Outstanding Optical Stability**

Proprietary Intelli-Lamp® LED technology that monitors LED head temperature, lifetime data, and automatically maintains optical stability +/- 5% during an exposure

#### **Exceptional Peak Irradiance**

LED Max heads that deliver exceptional peak irradiance of up to 14W/cm² (365nm), 16W/cm² (385nm) and 9 W/cm² (400nm)

## Calibration/Radiometry

Integrated radiometer for quick calibration and accurate measurement of light intensity; Allows operators to efficiently set and measure the peak irradiance accurately and consistently in a UV process within a manufacturing environment

## Controller Configuration

Newly designed 2.4 inch full color LCD with flexibility to control using a four way keypad, foot pedal, PLC or USB

#### Micro SD

Intuitive programming and error logging in real-time







## **LX500** Accessories

# UV LED SPOT CURING OmniCure LX500

# **OmniCure LED head focusing lenses**

Interchangeable LED focusing lenses allow control over UV spot size and irradiance level to meet the needs of your specific application.

Part Number	Description
810-00053R	3mm Focusing Lens for 365nm/385nm LED heads
810-00054R	6mm Focusing Lens for 365nm/385nm LED heads
810-00060R	8mm Focusing Lens for 365nm/385nm LED heads
810-00061R	10mm Focusing Lens for 365nm/385nm LED heads
810-00066R	12mm Focusing Lens for 365nm/385nm LED heads
810-00062R	3mm Focusing Lens for 400nm LED
810-00063R	6mm Focusing Lens for 400nm LED
810-00065R	8mm Focusing Lens for 400nm LED
810-00064R	10mm Focusing Lens for 400nm LED
810-00078R	5mm Cylindrical Lens, 365/385nm
	·



#### **Extension Cables**

Extension cables allow manufacturing process engineers to accommodate applications where the UV curing station needs to be further away from the controller.

Description	
Extension Cable: 1m	
Extension Cable: 3m	
Extension Cable: 5m	
Extension Cable: 10m	
Cable Assembly - LX400 UV LED Head to LX500 Controller Adaptor	
90deg Adaptor, 6mm spot, 365/385nm LED heads	
90deg Adaptor, 8mm spot, 365/385nm LED heads	
90deg Adaptor, 10mm spot, 365/385nm LED heads	





# **Mounting Clamps**

Additional LED head mounting clamps are available to order. LED head mounting clamps provide secure, precise fixtures and lower LED head temperatures for longer life operation.

Part Number	Description	
019-00087R	Mounting clamp/heat sink (includes an allen key)	





# UV LED AREA CURING OmniCure AC SERIES

#### **UV LED Area Curing Systems for Adhesives, Coatings & Inks**

Designed for a range of applications using small to wide substrates, the AC Series UV LED curing systems deliver a unique solution with high power UV output and low temperature curing for outstanding throughput performance and increased production yields. The AC Series is available in various form factors and 365nm, 385nm, 395nm and 405nm wavelengths, utilizing high output LEDs (also remove the space between the numbers and nm) and customizable optics to achieve industry-leading peak irradiance at long working distances for greater flexibility in developing a UV curing process.

# **Full System Configuration Ordering Guide**

An OmmiCure UV LED curing system is typically comprised of a UV LED head, paired with an appropriate SC Series power supply, cables, and an optional PLC controller for easy integration and testing. The following configuration guide can be used to build a solution that will suit your needs.



- 1. 018-00559R for AC4, AC5, AC7 and AC8225-F+ Series; 018-00595R for AC8, AC9, AC8150P-HD and AC9225-F Series; 018-00661R for AC8225P-HD & AC8300P-HD.
- 2. Optional. Additional accessories are available. Please visit www.excelitas.com/omnicure for more details.

#### AC Series UV LED head configurations supported by each SC Series product:

Product	SC0650	SC0750	SC1000	SC2000	SC3000
AC275/AC2110	1	2	2	2	43
AC450/AC550	1	1	2	2	43
AC475/AC575	1	1	1	2	43
AC7150	1	2	2	2	43
AC7300	N/A	1	1	2	43
AC8150/9150	N/A	N/A	N/A	1	2
AC8225/9225	N/A	N/A	N/A	1	1
AC8300/9300	N/A	N/A	N/A	N/A	1
AC8225-F+	N/A	N/A	1	2	3
AC9225-F	N/A	N/A	N/A	1	2
AC8150P-HD	N/A	N/A	N/A	1	1
AC8225P-HD	N/A	N/A	N/A	14	14

<sup>3.</sup> SC3000 has 4 DC output connectors.



<sup>4. 220-240</sup>VAC input needed.



# UV LED AREA CURING OmniCure AC2 SERIES

#### **UV LED Area Curing Systems for Adhesives, Coatings & Inks**

The OmniCure AC275 and OmniCure AC2110 air-cooled UV LED curing systems are compact and ideal for applications with space constraints. The units are designed with advanced front-end optics to provide high peak irradiance and exceptional uniformity.

Part Number	Description	
019-00251R	AC275-365 UV LED head: 365nm, 10x75mm	
019-00270R	AC275F-365 (Focus) UV LED head: 365nm, 10x75mm	
019-00236R	AC275-395 UV LED head: 395nm, 10x75mm	
019-00263R	AC275F-395 (Focus) UV LED head: 395nm, 10x75mm	
019-00271R	AC2110-365 UV LED head @ 365nm, 10x114mm	
019-00272R	AC2110F-365 (Focus) UV LED head @ 365nm, 10x114mm	
019-00239R	AC2110-395 UV LED head: 395nm, 10x114mm	
019-00254R	AC2110F-395 (Focus) UV LED head: 395nm, 10x114mm	
AC2 Series Accessories		
019-00195R	650W, Single output Power Supply Unit (PSU)	
019-00199R	750W, Dual output Power Supply Unit (PSU)	
018-00624R	AC2 Series Power / Control Cable	
019-00214R	PLC2000 External PLC Controller	



#### **Applications:**

The AC275 and AC2110 systems are ideally suited for a wide range of printing, medical device, electronic and optoelectronics applications such as the following:

**Printing:** Pinning, 3D printing, coding, product marking, serial numbers, posters and signage and packaging

**Medical:** Anesthesia masks, blood bags, catheters, contact lens, Endoscopes, filter sets, insulin pens, syringes and tube sets

**Electronics:** Camera modules, chip on glass, connectors, display bonding, flex circuit assembly, hard disk drives, lens bonding, microspeakers and OLED display manufacturing



# UV LED AREA CURING OmniCure AC4 SERIES

#### For Small Area UV LED Curing

The OmniCure AC450/P and AC475/P air-cooled UV LED small area curing systems provide high irradiance (8W/ cm²) at flexible working distances.

Part Number	Description
019-00194R	AC450-365 UV LED head: 4W/cm <sup>2</sup> , 25x50mm @ 365nm
019-00194R-03	AC450-365 UV LED head: 8W/cm <sup>2</sup> , 25x50mm @ 365 nm
019-00230R	AC450/P-365 (Print) UV LED head: 4W/cm², 25x50mm @ 365nm
019-00230R-03	AC450/P-365 (Print) UV LED head: 8W/cm², 25x50mm @ 365nm
019-00191R	AC450-395 UV LED head, 8W/cm <sup>2</sup> , 25x50mm @ 395nm
019-00228R	AC450/P-395 (Print) UV LED head: 8W/cm <sup>2</sup> , 25x50mm @395nm
019-00193R	AC475-365 UV LED head, 4W/cm <sup>2</sup> , 25x75mm @ 365nm
019-00193R-03	AC475-365 UV LED head: 8W/cm², 25x75mm @ 365nm
019-00231R	AC475/P-365 (Print) UV LED head, 4W/cm <sup>2</sup> , 25x75mm @ 365nm
019-00231R-03	AC475/P-365 (Print) UV LED head, 8W/cm <sup>2</sup> , 25x75mm @ 365nm
019-00192R	AC475-395 UV LED head, 8W/cm <sup>2</sup> , 25x75 mm @ 395nm
019-00229R	AC475/P-395 (Print) UV LED head, 8W/cm <sup>2</sup> , 25x75mm @ 395nm
AC4 Series Access	ories
019-00195R	650W, single output Power Supply Unit (PSU)
018-00559R	5m, 5W5 DC power cable (For AC4, AC5 & AC7 Only)
019-00214R	PLC2000 External PLC Controller
010-00329R	CV300 Conveyor System, 300mm-wide belt (U.S. Only)
018-00540R	HD15 M-F PLC Control cable, 15FT, 5m
019-00203R	Kit, window protector, AC450
019-00204R	Kit, window protector, AC475
019-00232R	Protective Window - AC4 Series
019-00209R	AC4 Series 100PPI Air Filter Kit, 10-Pack
019-00208R	AC4 Series Air Deflector Kit



#### **Applications:**

The AC450/P and AC475/P systems are ideally suited for the many medical device assembly and electronic applications requiring high throughput, low temperature curing of parts including:

**Medical:** Anesthesia masks, blood bags, catheters, contact lens, endoscopes, filter sets, insulin pens, syringes and tube sets

**Electronics:** Camera modules, Flex circuit assembly, chip on glass, hard disk drives, connectors, lens bonding, microspeakers and OLED manufacturing

Printing: Coding, labels, product marking and serial numbers





# UV LED AREA CURING OmniCure AC5 SERIES

#### For Small Area UV LED Curing

The OmniCure AC550/P and AC575/P air-cooled UV LED small area curing systems provide high irradiance (14W/ cm²) at flexible working distances.

Part Number	Description	
019-00279R	AC550-395 UV LED head, 14W/cm² 25x50mm @ 395nm	
019-00280R	AC575-395 UV LED head, 14W/cm² 25x75mm @ 395nm	
019-00281R	AC550/P-395 (Print) UV LED head, 14W/cm <sup>2</sup> 25x50mm @ 395nm	
019-00282R	AC575/P-395 (Print) UV LED head, 14W/cm <sup>2</sup> 25x75mm @ 395nm	
<b>AC5 Series Acce</b>	ssories	
019-00195R	650W, Single output Power Supply Unit (PSU)	
018-00559R	5m, 5W5 DC Power cable (For AC4, AC5 & AC7 Only)	
019-00214R	PLC2000 External PLC Controller	
010-00329R	CV300 Conveyor System, 300 mm-wide belt (U.S. Only)	
018-00540R	HD15 M-F PLC Control cable, 15FT, 5m	
019-00203R	Kit, window protector, AC450/AC550	
019-00204R	Kit, window protector, AC475/AC575	
019-00232R	Protective Window - AC4/AC5 Series	
019-00209R	AC4/AC5 Series 100PPI Air Filter Kit, 10-Pack	
019-00208R	AC4/AC5 Series Air Deflector Kit	



#### **Applications:**

The AC550/P and AC575/P systems are ideally suited for the many medical device and electronic assembly applications requiring high throughput, low temperature curing of often plastic parts and printing applications including:

**Medical:** Anesthesia masks, blood bags, catheters, contact lens, endoscopes, filter sets, insulin pens, syringes and tube sets

**Electronics:** Camera modules, chip on glass, connectors, display bonding, flex circuit assembly, hard disk drives, lens bonding and microspeakers

**Printing:** Coding, labels, product marking and serial numbers

Industrial: Wood coatings, solar panels, UV film lamination, lens bonding, pressure sensitive adhesives



# UV LED AREA CURING OmniCure AC7 SERIES

#### For Large Area UV LED Curing

Designed with a unique combination of high output LEDs and custom optics, these air-cooled UV LED systems provide high irradiance at flexible working distances, enabling manufacturers to achieve outstanding productivity with reduced running costs.

The OmniCure AC7150 and AC7300 provide exceptional uniformity over the full curing area for even and consistent curing. For even greater flexibility in curing larger parts, multiple systems can be joined together without comprising uniformity between systems.



Part Number	Description	
019-00197R	AC7150-365 UV LED head, 3W/cm <sup>2</sup> , 15x150mm @ 365nm	
019-00198R	AC7150-395 UV LED head, 5W/cm², 15x150mm @ 395nm	
019-00187R	AC7300-365 UV LED head, 3W/cm², 15x300mm @ 365nm	
019-00196R	AC7300-395 UV LED head, 5W/cm <sup>2</sup> , 15x300mm @ 395nm	
<b>AC7 Series Accesso</b>	pries	
019-00195R	650W, Single output Power Supply Unit (PSU)	
019-00199R	750W, Dual output Power Supply Unit (PSU)	
019-00186R	1000W, Dual output Power Supply Unit (PSU)	
018-00559R	5m, 5W5 DC power cable (For AC4, AC5 & AC7 Only)	
019-00214R	PLC2000 External PLC Controller	
018-00540R	HD15 M-F PLC Control cable, 15FT, 5m	
010-00329R	CV300 Conveyor System, 300 mm-wide belt (U.S. Only)	
020-00869	AC7300 Replacement air filters, qty 1	
020-00860	AC7150 Replacement air filters, qty 1	

#### **Applications:**

The OmniCure AC7150 and AC7300 systems are ideally suited for the many medical device and electronic assembly applications requiring high throughput, low temperature curing of often plastic parts and printing applications including:

**Medical:** Anesthesia masks, blood bags, catheters, contact lens, endoscopes, filter sets, hydrogels, insulin pens, syringes and tube sets

**Electronics:** camera modules, chip on glass, display bonding, flex circuit assembly, hard disk drives microspeakers, optical film coating, touch panels and OLED manufacturing

**Automotive:** Automotive filers, automotive gaskets and sealing and sealants

**Optical Fiber:** Fiber coating, fiber connectors and fiber ribbon

Industrial: Lens bonding, pressure sensitive adhesives, solar panels and UV film and lamination





# **UV LED AREA CURING OmniCure AC8 SERIES**

#### For Large Area UV LED Curing

The OmniCure AC8150/P, AC8225/P and AC8300/P air-cooled UV LED curing systems are designed with advanced custo peak irradiance and exceptional u deliver over 8 W/cm<sup>2</sup> peak irradian "P" versions of the AC8 Series have working distances required by prin the process requirements of the in be applicable for a range of varyin

om front-end optics to provide high-powered,	gh stems ces. ort
	AC8 Series Accessories
IED hoad: 1\1/1cm² 25v150mm @ 265nm	2000W Dual output

Part Number	Description
019-00218R	AC8150-365 UV LED head: 4W/cm <sup>2</sup> , 25x150mm @ 365nm
019-00218R-03	AC8150-365 UV LED head: 8W/cm <sup>2</sup> , 25x150mm @ 365nm
019-00217R	AC8150-395 UV LED head, 8W/cm <sup>2</sup> , 25x150mm @ 395nm
019-00221R	AC8150P-395 (Print) UV LED head, 8W/cm <sup>2</sup> , 25x150mm @ 395nm
019-00261R	AC8150-385 UV LED head, 8W/cm <sup>2</sup> , 25x150mm @ 385nm
019-00266R	AC8150P-385 (Print) UV LED head, 8W/cm <sup>2</sup> , 25x150mm @ 385nm
019-00219R	AC8225-365 UV LED head: 4W/cm <sup>2</sup> , 25x225mm @ 365nm
019-00219R-03	AC8225-365 UV LED head: 8W/cm <sup>2</sup> , 25x225mm @ 365nm
019-00212R	AC8225-395 UV LED head, 8W/cm <sup>2</sup> , 25x225mm @ 395nm
019-00222R	AC8225P-395 (Print) UV LED head, 8W/cm <sup>2</sup> , 25x225mm @ 395nm
019-00260R	AC8225-385 UV LED head, 8W/cm <sup>2</sup> , 25x225mm @ 385nm
019-00267R	AC8225P-385 (Print) UV LED head, 8W/cm <sup>2</sup> , 25x225mm @ 385nm
019-00220R	AC8300-365 UV LED head: 4W/cm <sup>2</sup> , 25x300mm @ 365nm
019-00220R-03	AC8300-365 UV LED head: 8W/cm <sup>2</sup> , 25x300mm @ 365nm
019-00216R	AC8300-395 UV LED head, 8W/cm <sup>2</sup> , 25x300mm @ 395nm
019-00244R	AC8300P-395 (Print) UV LED head, 8W/cm <sup>2</sup> , 25x300mm @ 395nm
019-00262R	AC8300-385 UV LED head, 8W/cm <sup>2</sup> , 25x300mm @ 385nm
019-00268R	AC8300P-385 UV LED head, 8W/cm <sup>2</sup> , 25x300mm @ 385nm

AC8 Series Accessories			
019-00211R	2000W, Dual output Power Supply Unit (PSU)		
019-00213R	3000W, Quadruple output Power Supply Unit (PSU)		
018-00595R	5m, 5C5W5 DC cable		
019-00214R	PLC2000 External PLC Controller		
010-00329R	CV300 Conveyor System, 300 mm-wide belt (U.S. Only)		
018-00540R	HD15 M-F PLC Control cable, 15FT, 5m		
020-00901	AC8225/9225 Replace- ment air filters, qty 1		

# **Applications:**

The AC8150/AC8150P, AC8225/AC8225P & AC8300/AC300P systems from are ideally suited for a wide range of medical device, electronic and optoelectronics, and printing applications such as the following:

Medical: Anesthesia masks, blood bags, catheters, contact lens, endoscopes, filter sets, insulin pens, syringes and tube sets

Electronics: Camera modules, chip on glass, connectors, display bonding, wafer tape removal, flex circuit assembly, hard disk drives, lens bonding, microspeakers and OLED manufacturing

Printing: Coding, labels, product marking, serial numbers, posters and signage, packaging and 3D printing

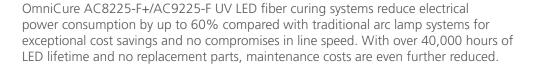


#### **UV LED AREA CURING**

#### OmniCure AC8225-F+ and AC9225-F

#### Air-Cooled UV LED Solutions for Fiber Curing Applications

The OmniCure AC8225-F+ and AC9225-F UV LED curing systems are specifically designed for fiber curing applications. Featuring a custom optical design to enhance output and optimize delivery of UV onto the fiber, the OmniCure AC8225-F+ and AC9225-F provide an air-cooled, high output solution to meet the market demand for increased process speeds. The AC8225-F+ delivers up to 16W/cm² peak irradiance at a 10 to 18mm working distance while the AC9225-F offers up to 20W/cm² peak irradiance. Featuring a replaceable outer window and the same mechanical enclosure, the OmniCure AC8225-F+ and AC9225-F fiber curing solutions enable customers to easily scale production speeds without complex changes in integration. Both UV curing systems utilize a patented LED control technology for exceptional uniformity and the ability to adjoin multiple systems while maintaining optical uniformity between each system.



Part Number	Description
019-00304R	AC8225-F+ 395nm UV LED head, 16W/cm <sup>2</sup> 15x225mm
019-00356R	AC9225-F 395nm UV LED head, 20W/cm <sup>2</sup> , 15x225mm
019-00211R	2000W Dual output power supply Unit (PSU)
019-00213R	3000W Quadruple power supply unit (PSU)
018-00559R	5m, 5W5 DC power cable
018-00595R	5m, 5C5W5 DC Power Cable
019-00214R	PLC2000: External PLC controller unit

Product	SC0650	SC0750	SC1000	SC2000	SC3000
AC8225-F+	N/A	N/A	1	2	3
AC9225-F	N/A	N/A	N/A	1	2

<sup>\*</sup>AC8225-F+ can use 018-00559R power cable. AC9225-F must use 018-00595R DC power cable.







#### **UV LED AREA CURING**

#### **OmniCure AC8-HD SERIES**

#### **High Dose for Large Area UV LED Curing**

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.

The AC8-HD systems deliver over 15W/cm<sup>2</sup> peak irradiance and nearly double the dose of the AC8 Series of products, making these systems ideal for applications that demand high dosage.



With the increased power requirements of the new OmniCure AC8-HD Series, a different power cable is required for the UV LED heads. The pairing of the SC power supplies are also different than the legacy AC8 and AC9 Series of products. The AC8300P-HD will require an off-the shelf power supply. The table below highlights the configurations supported by each SC Series product, as well as corresponding power cable.

Product	SC0650	SC0750	SC1000	SC2000	SC3000	Power Cable
AC8150PHD-385/395/405	N/A	N/A	N/A	1	1	018-00595R / 018-00661R
AC8225PHD-385/395/405	N/A	N/A	N/A	1; requires 220-240VAC	1; requires 220-240VAC	018-00661R
AC8300PHD-385/395/405	N/A	N/A	N/A	N/A	N/A	018-00661R

SC Series Power Supply and Power Cable Pairings for AC8-HD Series.

#### **Applications:**

The AC8150P-HD, AC8225P-HD, and AC8300P-HD are ideally suited for a wide range of medical, industrial, electronics, printing and coating applications such as the following:

Printing: Wide format graphics, coding, labels, product marking serial numbers, posters and signage, packaging, screen, bottle printing

Medical: Anesthesia masks, blood bags, catheters, contact lens, endoscopes filter sets, insulin pens, syringes, tube sets

**Electronics:** Camera modules, chip on glass, connectors, display bonding, OLED display wafer tape removal, flex circuit assembly, hard disk drives, lens bonding, micro-speakers

Industrial: Wood coatings solar panels, UV film lamination, lens bonding, pressure sensitive adhesives

www.excelitas.com omnicure@excelitas.com



# UV LED AREA CURING OmniCure AC9 SERIES

#### For Small Area UV LED Curing

The OmniCure AC9 Series are high-power UV LED Curing Systems delivering over 14 W/cm² peak irradiance for fast curing of inks, adhesives and coatings. The AC9 Series' innovative design features a high-performing, small form-factor, air-cooled solution to enable fast line speeds in industrial manufacturing and printing.

A patented process for addressing individual UV LED module outputs provides exceptional uniformity for even curing over the entire area. The scalable design allows for multiple heads to be adjoined for customization and flexibility without compromising on output uniformity.

Part Number	Description
	•
019-00241R	AC9150-395 UV LED head, 14W/cm², 25x150mm @ 395nm
019-00252R	AC9150P-395 (Print) UV LED head, 14W/cm <sup>2</sup> , 25x150mm @ 395nm
019-00255R	AC9225-395 UV LED head, 14W/cm <sup>2</sup> , 25x225mm @ 395nm
019-00253R	AC9225P-395 (Print) UV LED head, 14W/cm², 25x225mm @ 395nm
019-00247R	AC9300-395 UV LED head, 14W/cm², 25x300mm @ 395nm
019-00246R	AC9300P-395 (Print) UV LED head, 14W/cm <sup>2</sup> , 25x300mm @ 395nm
<b>AC9 Series Access</b>	ories
019-00211R	2000W, Dual output Power Supply Unit (PSU)
019-00213R	3000W, Quadruple output Power Supply Unit (PSU)
018-00595R	5m, 5C5W5 DC cable
019-00214R	PLC2000 External PLC Controller
010-00329R	CV300 Conveyor System, 300 mm-wide belt (U.S. Only)
018-00540R	HD15 M-F PLC Control cable, 15FT, 5m
020-00901	AC8225/9225 Replacement air filters, qty 1
020-00899	AC8300/9300 replacement air filters, qty 1
020-00900	AC8150/9150 replacement air filters, qty 1



### **Applications:**

The AC9150/AC9150P, AC9225/AC9225P & AC9300 and AC9300P systems are ideally suited for a wide range of applications such as digital printing, industrial and electronics manufacturing, touch panel/display, solar panel, conformal coatings and automotive.

**Printing:** Wide format graphics, coding, labels, product marking, serial numbers, posters and signage, packaging, screen and bottle printing

**Medical:** Anesthesia masks, blood bags, catheters, contact lens, endoscopes, filter sets, insulin pens, syringes and tube sets

**Electronic:** Camera modules, chip on glass, connectors, display bonding, wafer tape removal, flex circuit assembly, hard disk drives, lens bonding and microspeaker

Industrial: Wood coatings, solar panels, UV film lamination, lens bonding, and pressure sensitive adhesives





#### **UV LED AREA CURING**

# **OmniCure AC Series Optical Adaptors**

The OmniCure AC Series of high power UV LED curing solutions offers optical adaptors to suit a wide range of applications and customer needs. OmniCure provides a portfolio of adaptors customized for use with the OmniCure AC Series of UV LED systems.

By attaching to the front face of the OmniCure UV LED system, the AC Optical Adaptors convert a smaller area of high output power into a larger area, while optimizing optical power and delivering evenly distributed irradiance and uniformity. These adaptors increase the flexibility of the AC Series of products by expanding the range of applications that can be addressed.

#### Available in the following configurations:

- 100mm x 100mm
- 100mm x 150mm
- 70mm x 70mm
- 8mm x 350mm





The optical adaptors are utilized to uniformly illuminate the desired area with the UV light source (or in this case shown, two light sources).

<sup>\*</sup> Other custom sizes available. For special requests see page 25.



#### Accessories

#### **UV LED AREA CURING**

#### **OmniCure SC Series**

The OmniCure SC Series system controllers are tailored specifically for the 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. With a small form factor, the OmniCure SC0650 is suitable for many single LED head applications with minimal existing customer infrastructure requirements and quickest commissioning time.

Part Number	Description
019-00195R	650W, Single output Power Supply Unit (PSU)
019-00199R	750W, Dual output Power Supply Unit (PSU)
019-00186R	1000W, Dual output Power Supply Unit (PSU)
019-00211R	2000W, Dual output Power Supply Unit (PSU)
019-00213R	3000W, Quadruple output Power Supply Unit (PSU)



#### **Power Cables**

Part Number	Description
018-00559R	5m, 5W5 DC Power cable (For AC4, AC5, AC7 & AC8225F/F+ Only)
018-00595R	5m, 5C5W5 DC Power cable (For AC8 & AC9 Series)
018-00661R	5m, 5CW5 8AWG DC Power Cable (for AC8-HD Series)

#### **OmniCure CV300**

#### **Small Volume Production Conveyor**

Designed to complement the OmniCure AC Series of high power UV LED area curing systems, the OmniCure CV300 is a versatile conveyor system suitable for production, laboratory, and research and development applications.

The CV300 can handle substrates up to 310mm (12.2") wide on its open mesh Teflon® coated fiberglass belt with an effective curing area of up to 300mm (12") depending on the OmniCure LED system being utilized. The unique mounting design of the OmniCure CV300 conveyor allows for multiple configurations of the OmniCure AC Series high power UV LED curing systems. The length of the LED systems can be positioned perpendicular to the conveyor belt's direction of travel or in 15 degree steps towards a parallel orientation.



010-00329R (AC7300 unit shown, not included) Only available in the USA. China Export (Not CE)





#### Accessories

## **UV LED AREA CURING ACCESSORY**

#### **OmniCure PLC2000**

#### Intelligent External PLC Controller for AC Series UV LED Curing Systems

The OmniCure PLC2000 is an innovative product accessory specially designed to complement the OmniCure AC Series of high power UV LED curing systems. When connected to an OmniCure AC Series UV LED head, this multi-purpose external controller device enables the immediate ability to intelligently manage, monitor and control an LED system.

Providing unparalleled control of the OmniCure UV LED lamp systems, the PLC2000 can be used to dynamically adjust the output intensity, exposure time, and on/off capabilities while providing system information and error monitoring. With flexibility of operating the PLC2000 locally or remotely through an automated system, the portable and compact PLC controller is well suited for use in manufacturing environments, laboratory or research & development applications.

Part Number	Description
019-00214R	PLC2000 External PLC Controller

# **OmniCure Extended Warranty (U.S. ONLY)**

Part Number	Description
023-00001	S Series 2nd Year Extended Warranty
023-00010	AC7 Series 3rd Year Extended Warranty**
023-00002	S Series 3rd Year Extended Warranty
023-00003	S Series 4th Year Extended Warranty
023-00004	LX Series 2nd Year Extended Warranty
023-00005	LX Series 3rd Year Extended Warranty
023-00011	AC8 Series 2nd Year Extended Warranty*
023-00012	AC8 Series 3rd Year Extended Warranty**
023-00020	Radiometer 2nd Year Extended Warranty
023-00019	Radiometer 3rd Year Extended Warranty
023-00006	LX Series 4th Year Extended Warranty
023-00013	AC2 Series 2nd Year Extended Warranty*
023-00018	Radiometer 4th Year Extended Warranty
023-00014	AC2 Series 3rd Year Extended Warranty**
023-00022	AC9 Series 2nd Year Extended Warranty*
023-00007	AC4 Series 2nd Year Extended Warranty*
023-00023	AC9 Series 3rd Year Extended Warranty* *
023-00008	AC4 Series 3rd Year Extended Warranty**
023-00025	AC5 Series 2nd Year Extended Warranty*
023-00009	AC7 Series 2nd Year Extended Warranty*
023-00026	AC5 Series 3rd Year Extended Warranty**

<sup>\*</sup> Currently the AC Series includes two years or 10,000 hours warranty (whichever comes first) on the LED modules and one year on the remainder of the head; AC Series second year warranty provides a full two years / 10,000 hours on a complete LED head.





<sup>\*\*</sup> AC Series third year includes three years or 15,000 hours on a complete LED Head (whichever comes first).



# **Custom Solutions and System Integration**

#### **UV CURING SOLUTIONS**

# **Solutions for Custom UV Applications**

Excelitas Technologies is committed to working closely with our customers to develop and customize UV curing solutions tailored to their specific applications. Through working in collaboration, we leverage our technology expertise to address our customers' specific UV application requirements and deliver the right solution that helps them achieve their needs including business differentiation, improved time to market and increased flexibility.

Our collaborative and custom approach to developing UV LED curing solutions helps drive key benefits for our customers including:

- Scalability and flexibility
- Robustness of application
- Protection in their investment
- Risk management
- Application performance improvement

For additional details, please contact us at **omnicure@excelitas.com** for assistance with your custom UV application.



Small area OmniCure UV LED Curing System with SC Series Power Supply



Conveyor integration of AC Series UV LED Curing System











# **EXCELITAS** Representatives & Distributors

#### **OmniCure North America Representatives**

Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Vermont

TTG Thomas Technology Group 5 Sewall Street #2 Marblehead, MA 01945 Tel: 781-639-0715 Fax: 781-639-2070 sales@thomastec.com

# Delaware, Dist. Of Columbia, Maryland, Ohio, Pennsylvania, Southern New Jersey, Virginia, West Virginia

Inpro Technologies, Inc. 5104 Pegasus Court, Suite K Frederick, MD 21704 Tel.: +1 301 698-9711 inpro@inprotechnologies.com

#### North Carolina and South Carolina

EMS Associates 299 Lewis Mustian Rd Norlina, NC 27563 Tel.: 704-576-2236 eseagrave@mindspring.com

#### Alabama; Georgia; Tennessee; Florida; Lexington, Kentucky

Blue Ridge Industrial Sales, Inc. 3328 E Ponce de Leon Avenue, Unit 851 Scottdale, GA 30079 Tel.: +1 404-697-6631 info@blueridgesales.com

### Illinois, Indiana, Michigan, Wisconsin

Six Sigma Marketing, Inc 507 Estes Ave. Schaumburg, IL 60193 Tel.: +1-847-456-9919 gerry@sixsigma-inc.com

# Iowa, Minnesota, North Dakota, Northern Wisconsin, South Dakota

Production Automation Corp (PAC) 6200 Bury Drive. Eden Prairie, MN 55346 Tel.: +1 952 903-0333 info@gotopac.com

#### Idaho, Oregon, Northern California, Washington, British Columbia, Canada, Tijuana/Nevada

Tom Ridino Tel: 415-297-0066 tom.ridino@excelitas.com

www.excelitas.com omnicure@excelitas.com

#### Kansas, Kentucky, Missouri, Nebraska, Arkansas, Louisiana, Oklahoma, Texas, Alaska, Hawaii, Montana, Wyoming, Brazil (South America), Puerto Rico, Dominican Republic

Excelitas Technologies 2260 Argentia Road Mississauga, ON L5N 6H7 Tel: +1 905 821-2600 omnicure@excelitas.com

# Colorado; New Mexico; Utah; Arizona; Southern California; Baja, Mexico

Full Spectrum Technologies 63 Via Pico Plaza San Clemente, CA 92672 Tel.: +1 949 502-7733 Rick@fullspectech.com

# Texas, Oklahoma, Arkansas, Louisiana, Texas Valley (Mexico border)

Anton & Associates 4115 Mesa Drive Denton, TX 76207 Tel.: +1 940-484-7037 mail@antonassoc.com

#### Costa Rica

Escazu, San Jose, Costa Rica Tel: +506 4034-9837 info@idscocr.com

#### Mexico; El Paso, Texas

Hitech Automation 8330 White Road, El Paso, TX, USA 79907 Tel: +1 915 860-2072 or 915-920-9989 Javier8a@mac.com

#### **OmniCure European Distributors**

#### Belgium, the Netherlands, Luxembourg

Gentec Benelux Rue de L'Industrie, 12 Nivelles, B-1400 Belgium Tel.: +32 2 351 1800

Tel.: +32 2 351 1800 info@gentec.be

#### Czech Republic

PROFiber Networking s.r.o. Mezi Vodami 205/29 143 00 Praha 4 Czech Republic Tel: + 420 225 152 050 info@profiber.eu



#### **France**

Bureau commercial FDS en France 25 rue des Trois Sœurs FR-74600 Seynod France Tel.: +33 4 58 00 10 07 contact@uv-industrie.com

Poly Dispensing Systems 122, Chemin de la Cavée Orgeval, 78630

France Tel.: +33 01 39 62 40 92

# Germany, Austria

igb-tech GmbH Gewerbestr. 2 Freinsheim, 67251 Germany Tel.: +49 6322 949 5787 anfragen@igb-tech.de

Polytec GmbH Polytec-Platz 1-7 Waldbronn, 76337 Germany Tel: +49 7243 604 1540 ot@polytec.de

uv-technik meyer gmbh Glauburgstraße 34 D-63683 Ortenberg / Bleichenbach Germany Tel: +49 6041 962 80 welcome@uv-technik.com

#### Israel

Memcom Advanced Communications Ltd. PO Box 23139 Jerusalem 91230 Israel Tel.: +972 2 5862224

Tel.: +972 2 5862224 sales@memcom.co.il

#### Italy

Via Marocco, 13 Milano, 20127 Italy Tel: +39 02 28 20 646 info@ammirata.it

Guido Ammirata Srl.

#### **Poland**

AMB Technic ul. Blizna 31 62-600 Kolo, 62600 Poland Tel: +48 63 272 0970, 2616 267 amb@amb.pl

#### Scandinavia, Baltic

Efsen Engineering A/S Skelstedet 6 DK-2950 Vedbaek Denmark Tel.: +45 45 65 02 60 efsen@efsen.dk

#### Switzerland, Liechtenstein

Fast Drying Systems (FDS) SA Chemin Terroux 21 CH-1218 Grand-Saconnex / GE Suisse Tel.: +41 22 788 84 88

rel.: +41 22 /88 84 88 contact@uv-industrie.com

#### **United Kingdom, Ireland**

Jenton International LTD. 9/10 Ardglen Industrial Estate Ardglen Road, Whitchurch Hampshire RG28 7BB United Kingdom Tel.: +44 125 689 2194 sales@jenton.co.uk

# For All Other European Regions, please contact:

Excelitas Technologies Jörg Hannig Tel.: +49 (89) 255 458 754 Joerg.Hannig@excelitas.com

#### **OmniCure Australia Distributors**

Alpha Services PTY LTD Tel.: +61 2 9449 2929 adam@alphauv.com.au

#### **OmniCure Asia Support**

Excelitas Technologies Office 818, Enterprise Square. No.228, Meiyuan Rd. Zhabei District, 200070, Shanghai, China Tel.: (86)2163815578 omnicure@excelitas.com





# **Customer Service**



1-800-668-8752 Customer Service



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www.excelitas.com omnicure@excelitas.com L5N 6H7 CANADA

2260 Argentia Road Telephone: +1 905 821-2600
Mississauga, Ontario Toll Free (USA and CAN): +1 800 668-8752 Fax: +1 905 821-2055