

## Advanced UVC LED Solutions for Disinfection

### OmniCure® UVC LED Solutions

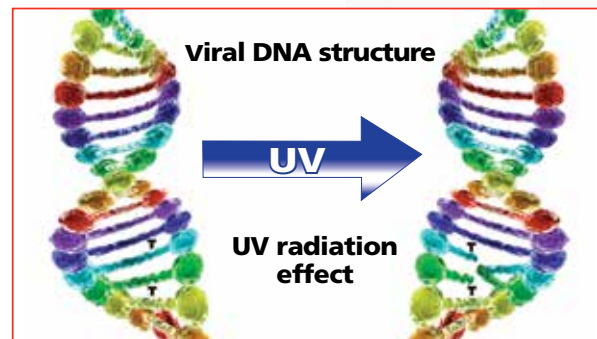
Excelitas Technologies® Corp., a global photonics technology leader, offers a wide range of UV LED solutions and extends its expertise in UV curing to disinfection. Leveraging our OmniCure AC Series platform, we are able to offer flexible, robust, and scalable UVC LED systems that can be integrated into a variety of disinfection applications.



### UVC for Disinfection

UVC disinfection systems utilize UVC light to damage the DNA in a microorganism, preventing replication and effectively inactivating the pathogen over time. Excelitas' LED based UVC disinfection systems are tailored to match the pathogen's peak absorption wavelength, increasing germicidal efficiency on a wide variety of mediums, including air, textiles, and hard surfaces. Excelitas' AC Series UVC LED systems are available in various sizes for a wide variety of commercial and private environments, such as:

- Nursing stations
- Dental offices
- Medical centers
- Food processing facilities
- Surgical suites
- PPE disinfection



### Benefits of UVC LEDs

UVC LED systems offer turnkey, solid state solutions which do not create ozone, require minimal maintenance, and provide many additional benefits:

#### Highly Effective

- No touch disinfection
- Non-strain generating
- Non-chemical disinfection

#### Environmentally Friendly

- Mercury-free
- No ozone generation
- No replacement bulbs
- Energy efficient

#### Increased Repeatability

- Instant on/off
- 1000mW/cm<sup>2</sup> of peak irradiance for fast inactivation of biological material
- Adjustable output power
- Excellent uniformity



## UVC Product Technical Specifications

OmniCure UVC LED System	
LED Peak Wavelengths	272 nm
Active Optical Area	From 25 x 50mm to 25 x 300mm <sup>1</sup>
Peak Irradiance	>1000mW/cm <sup>2</sup>
Longitudinal Uniformity*	Better than ± 10%
Operating Voltage	48V DC
Dimensions (L x W x H)	110x68x190mm   159x80x218mm 235x80x218mm   311x80x218mm
Weight	From 1.1 kg <sup>2</sup>
Cooling	Air
Automation	Integrated PLC controls for UV intensity and system alarms

\*At 100% intensity setting.

<sup>1</sup>In 25mm increments from 25x50mm up to 20 x 300mm. Varies depending on size of optical area.

## UVC Optical Performance

OmniCure® UVC LED solutions are designed to deliver higher power and peak irradiance, while delivering exceptional uniformity at different working distances. Offering an impressive peak irradiance of >1000mW/cm<sup>2</sup> and outstanding uniformity, our UVC LED solutions can help support various applications from coatings to disinfection. Utilizing a patented process for addressing individual UV LED module outputs, superior uniformity over the entire curing area can be achieved. Multiple systems can be adjoined while maintaining optical uniformity between each system.

## Solutions for Custom UVC Applications

Excelitas Technologies is committed to working closely with our customers to develop and customize UV curing solutions tailored to their specific applications. Coupled with our extensive optical and detection product lines, Excelitas' UVC disinfection systems provide a complete solution. For additional details or assistance with your custom application, please contact us at [omnicure@excelitas.com](mailto:omnicure@excelitas.com).

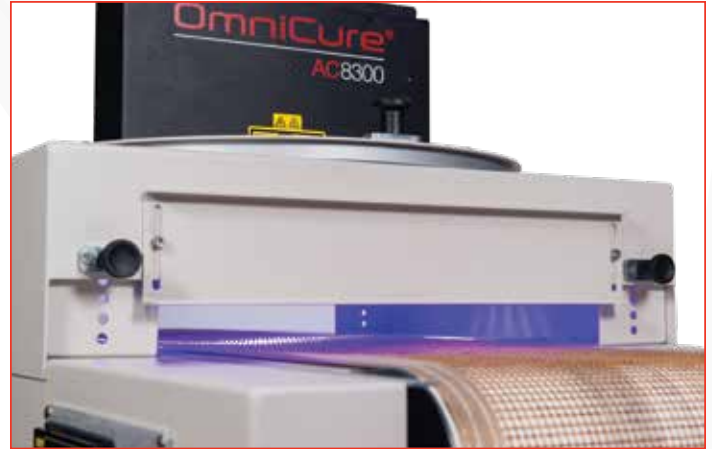
## Try Before You Buy.

Contact us for more information.

[www.excelitas.com](http://www.excelitas.com)

## Ease of Integration

OmniCure UV LED systems utilize air-cooled LED technology in a compact form factor allowing for seamless integration into new or existing projects. The innovative design eliminates the need for costly retooling or external cooling.



## UVC LED Spectral Output vs. Disinfection Bands

