

## OmniCure LX400+

The Most Advanced, Versatile and Easy-to-use UV LED Spot Curing System



- Fast curing time and high power efficiency
- Flexibility with a wide range of UV curable adhesives
- Maximum versatility for curing processes
- Reduction in UV manufacturing costs
- Ease of use with a single solution for multiple applications
- Low cost of set up and ownership



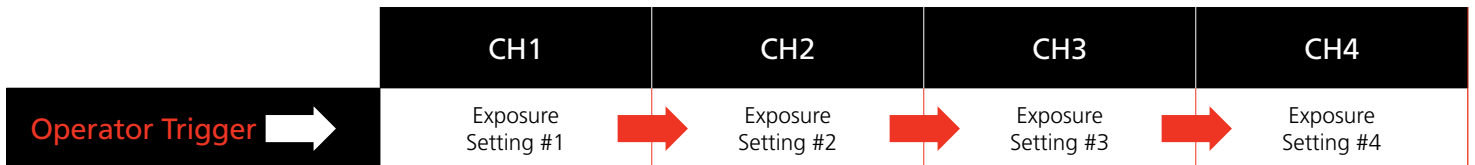


Utilizing advanced UV LED technology, the OmniCure® LX400+ LED spot curing system has been specially designed to reduce UV bonding manufacturing costs through faster curing times, higher power efficiency and superior control with monitoring capabilities.



The LX400+ system offers a robust and intuitive user interface with quick configuration capabilities including ready to use timer, power level and head temperature display modes, as well as a durable and reliable “Start/Stop” activation button.

Sequential exposure of channels 1, 2, 3 and 4 with the channel configuration mode FP6



FEATURES	BENEFITS
<p>Latest UV LED technology to provide high irradiance at different wavelengths:</p> <ul style="list-style-type: none"> <li>• 9,500mW/cm<sup>2</sup> (typical) at 365nm</li> <li>• 12,400mW/cm<sup>2</sup> (typical) at 385nm</li> <li>• 9,000mW/cm<sup>2</sup> (typical) at 400nm</li> </ul>	<p>Reduction in UV manufacturing costs with faster curing times and higher power efficiency while supporting a wide range of UV cured adhesives</p>
<p>Full Control of up to four UV LED heads simultaneously or independently</p>	<p>Maximum flexibility for manufacturing setups where single or multiple foot pedals are needed to control a number of curing stations simultaneously</p>
<p>Precise monitoring and regulation of UV light exposure time (+/- 0.1 seconds) and intensity level (+/- 1%) of up to four different UV LED heads</p>	<p>Repeatability in UV curing processes for consistent and highest product quality</p>
<p>Highly efficient and Intelligent UV LED heads with extra cooling capability and patented Intelli-Lamp® technology</p>	<p>Maximum UV LED head power efficiency, long term reliability and guaranteed lifetime</p>
<p>UV LED head temperature on display in real time</p>	<p>Optimization of UV LED head output power efficiency</p>
<p>Customized multi-phase curing processes directly from the LX400+ controller</p>	<p>Ease of use while eliminating the need for an external control unit</p>

# Overview of Accessories Available

## Interchangeable/Replaceable Focusing Lens Options

### UV LED HEADS

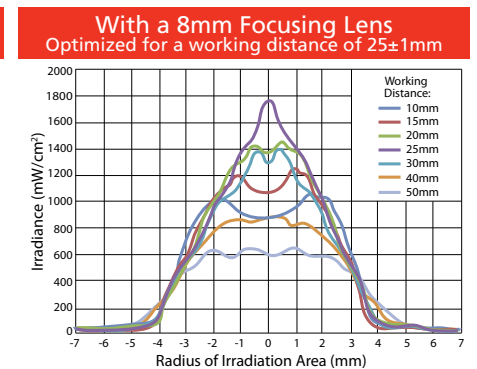
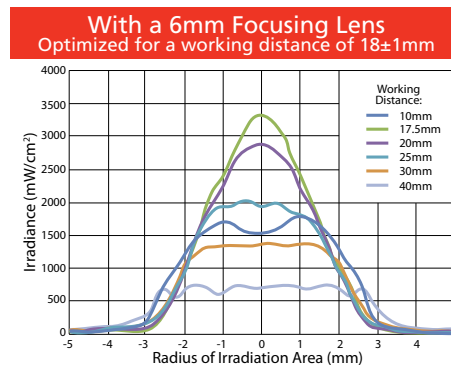
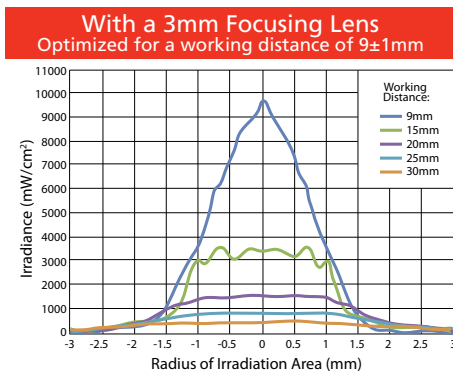
The LED Heads have been uniquely designed for highly efficient cooling to maximize continuous operation without over-heating. This will minimize costly downtime and extend the life of the LED Heads, resulting in low cost of ownership and convenience that manufacturers can rely on. Due to its superior design, when properly clamped, the head may be used continuously while remaining cool.



### FOCUSING LENSES

OmniCure UV LED Heads use replaceable focusing lenses that offer the flexibility essential to meet the spot size and irradiance level required for a specific application.

Beam profiles for the OmniCure 365nm UV LED MAX heads with the 3mm, 6mm and 8mm lenses are illustrated below. Additional beam profiles and technical information are available on the OmniCure website ([www.excelitas.com/omnicure](http://www.excelitas.com/omnicure)).



### UV LED LIGHT METER

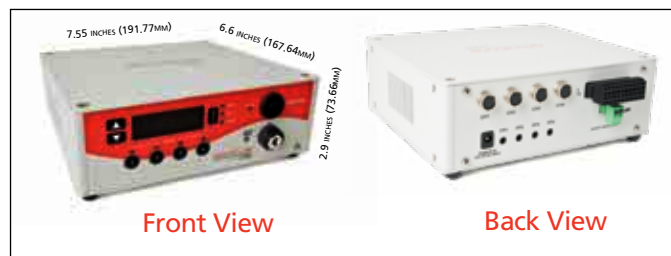
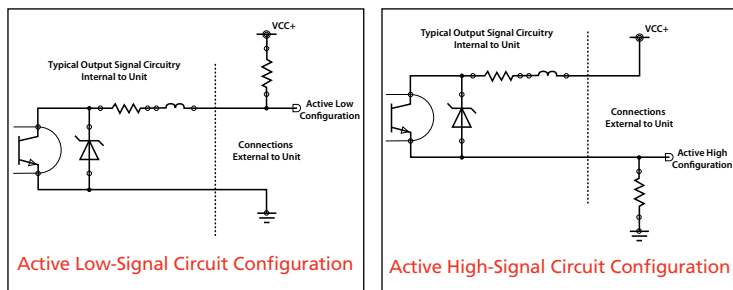
The OmniCure LED Light Meter can measure power and irradiance by selecting a specific wavelength on the meter that corresponds to the wavelength of the UV LED source. This enables manufacturers to achieve greater accuracy with ease of use while maintaining reliable and controlled UV processes. (NIST, NRC Traceable)



## USER INTERFACE GENERAL SPECIFICATIONS

UV LED Heads	Up to 4 interchangeable individual heads
LED Indicators	Mode and Up/Down buttons to control the display mode
Mode Control	Programmable trigger mode: <ul style="list-style-type: none"> <li>Countdown Mode: Range programmable from 999.9s to 0.1s, in 0.1s intervals</li> <li>Count Up Mode: User controlled timing via the front panel or foot pedals</li> </ul>
Exposure Time Control	Programmable trigger mode: <ul style="list-style-type: none"> <li>Countdown Mode: Range programmable from 999.9s to 0.1s, in 0.1s intervals</li> <li>Count Up Mode: User controlled timing via the front panel or foot pedals</li> </ul>
Intensity Level Control	15%-100% (with 1% increments)
Head Actuation Button	Control start or stop of UV LED emission
Foot Pedal Ports	4 foot pedal ports to control start or stop of the LED Emission
LED Indicators	Indicates Timer Control, Level, Trigger Mode and UV Emission (UV ON)
Key Switch	Turn on/off controller
External Unit Controller Input (PLC Port)	PLC port allowing external control and monitoring: Start/stop, intensity level selection, lock front panel interface and timer mode selection
UV LED Head Over Temperature Protection	Cutoff temperatures 365 nm MAX heads: 65°C, 385 nm MAX heads: 65°C, 400 nm heads: 60°C
Controller Dimensions and Weight	W x L x H : 7.55" (191.77 mm) x 6.6" (167.64 mm) x 2.9" (73.66 mm) 2.15 lbs (0.98 kg)

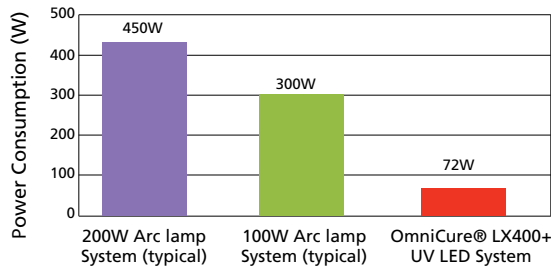
### PLC Connector Pin-Outs



### Foot Pedal Channel Control

	CH1	CH2	CH3	CH4
FP1 Mode	FP1	FP2	FP3	FP4
FP2 Mode	FP1 Controls CH 1, 2 Simultaneously		FP3	FP4
FP3 Mode	FP1 Controls CH 1, 2, 3 Simultaneously			FP4
FP4 Mode	FP1 Controls All Channels Simultaneously			
FP5 Mode	FP1 Controls CH 1, 2 Simultaneously		FP3 Controls CH 3, 4 Simultaneously	
FP6 Mode	FP1 Sequentially Exposes CH 1,2,3,4			

### LX400+ Energy Efficiency OmniCure® LX400+ vs Typical UV Arc Lamp Systems



LX400+ offers energy savings and is eco-friendly. OmniCure LX400+ UV LED curing system consumes about 75% less energy than a typical UV arc lamp curing system.

OmniCure LX Series Controller	Part Number
OmniCure LX400+ Controller	010-00243R

To learn more about OmniCure UV curing solutions, please visit [www.excelitas.com/omnicure](http://www.excelitas.com/omnicure).



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