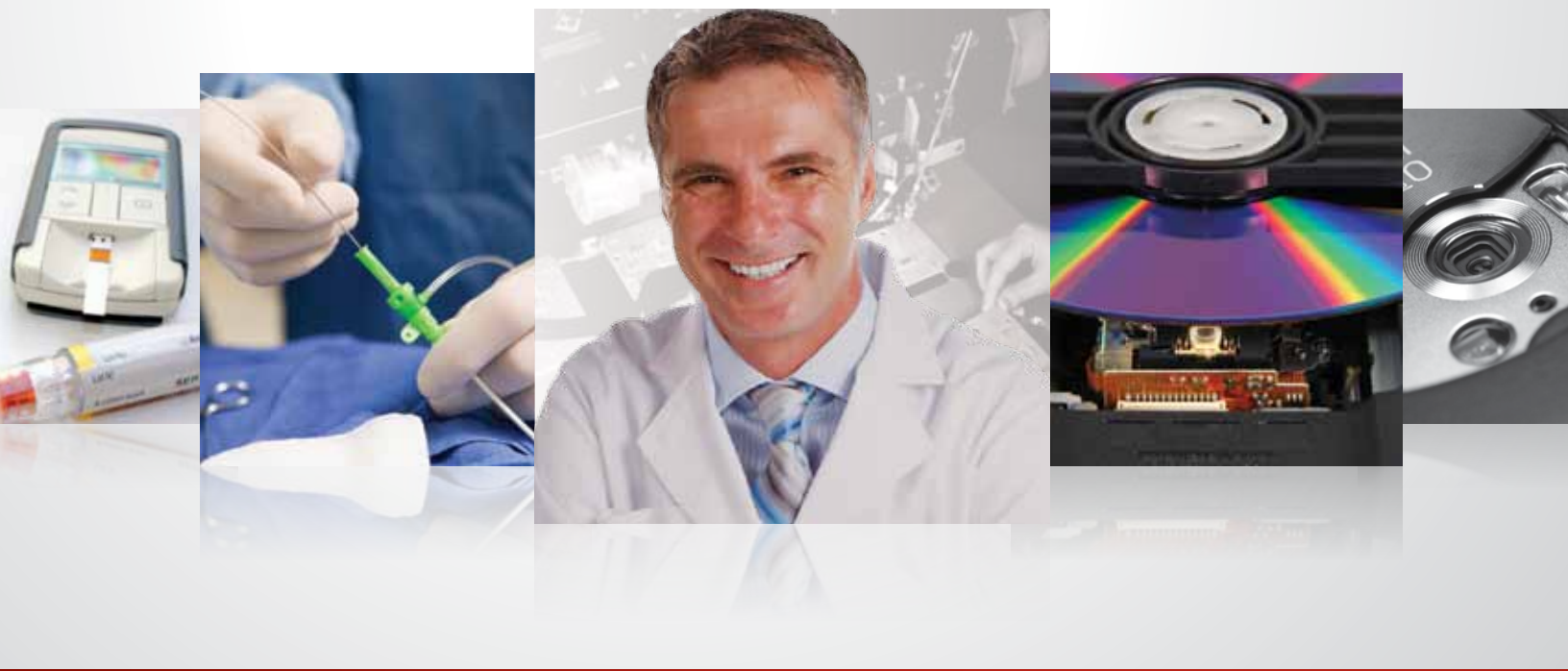


The most advanced, versatile and
easy-to-use UV LED spot curing system

OmniCure® LX400+

Delivering high irradiance with fast curing in UV assembly
manufacturing; ideal for a wide variety of applications



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



OmniCure®

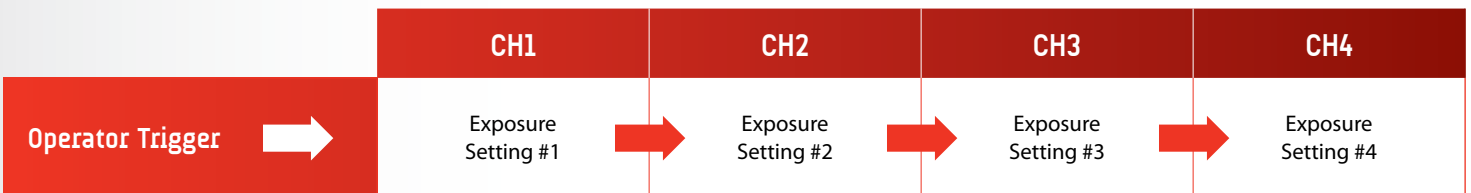
..... LX400+

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"> • 9,500mW/cm² (typical) at 365nm (NEW) • 12,400mW/cm² (typical) at 385nm (NEW) • 9,000mW/cm² (typical) at 400nm 	<p>Reduction in UV assembly manufacturing costs with faster curing time 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 assembly manufacturing processes for consistent and highest product quality</p>
<p>NEW: 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>NEW: 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*

*For the complete list of accessories, see the OmniCure® Product Selection Guide

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.



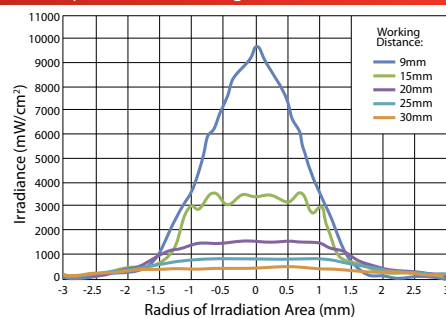
FOCUSING LENSES

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.

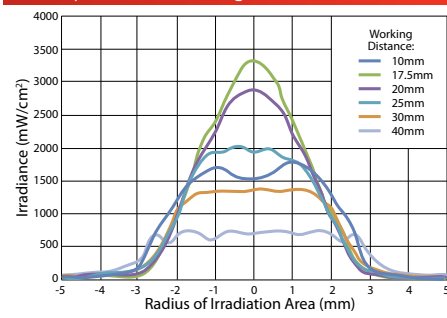
Beam profiles for the NEW OmniCure® 365nm UV LED MAX heads with the 3mm, 6mm and 8mm lenses are illustrated below. Additional beam profiles and technical information are available on the OmniCure® website (www.LDGI-OmniCure.com).



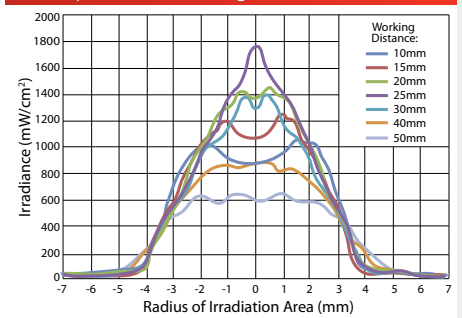
With a 3mm Focusing Lens
Optimized for a working distance of 9±1mm



With a 6mm Focusing Lens
Optimized for a working distance of 18±1mm



With an 8mm Focusing Lens
Optimized for a working distance of 25±1mm



UV LED LIGHT METER **NEW**

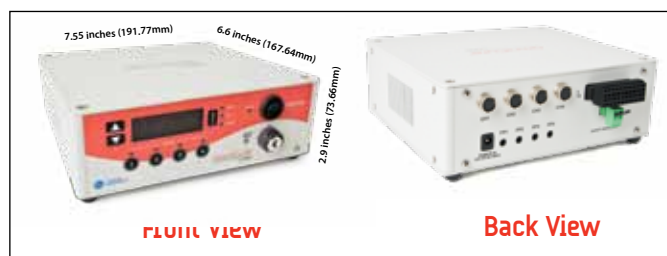
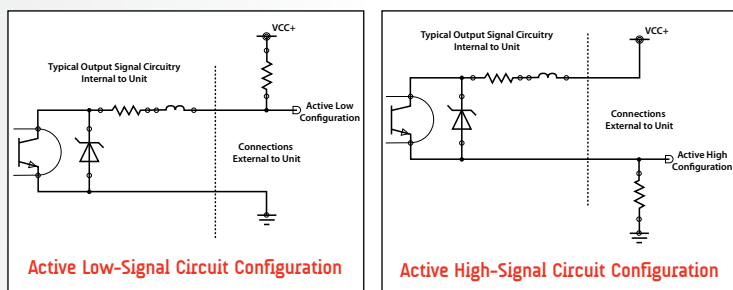
The OmniCure® LED Light Meter can measure power and irradiance by selecting a specific wavelength on the meter that corresponds to the wavelength of the LED UV source. This enables manufacturers to achieve greater accuracy with ease of use while maintaining reliable and controlled UV assembly processes. (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"> • Countdown Mode: Range programmable from 999.9s to 0.1s, in 0.1s intervals • Count Up Mode: User controlled timing via the front panel or foot pedals
Exposure Time Control	Programmable trigger mode: <ul style="list-style-type: none"> • Countdown Mode: Range programmable from 999.9s to 0.1s, in 0.1s intervals • Count Up Mode: User controlled timing via the front panel or foot pedals
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 365nm MAX heads: 65°C, 385nm MAX heads: 65°C, 400nm heads: 60°C
Controller Dimensions and Weight	W x L x H : 7.55" (191.77mm) x 6.6" (167.64mm) x 2.9" (73.66mm) 2.15 lbs (0.98 kg)

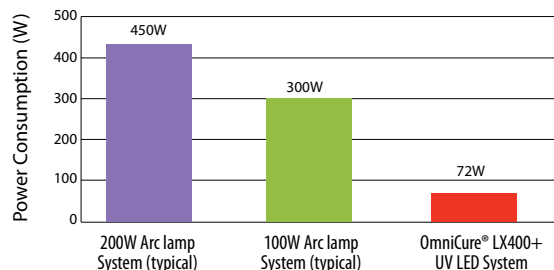
PLC Connector Pin-Outs



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 NEW	FP1 Controls CH 1, 2 Simultaneously		FP3 Controls CH 3, 4 Simultaneously	
FP6 Mode NEW	FP1 Sequentially Exposes CH 1,2,3,4			

LX 400+ 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® LX 400+ Controller	010-00243R

Gentec Belux www.gentec.be
+32 2 351 1800



2260 Argentia Road,
Mississauga, Ontario,
LSN 6H7 CANADA

www.LDGI-OmniCure.com

Telephone: +1 905 821-2600
Toll Free (USA and Canada): +1 800 668-8752
Facsimile: +1 905 821-2055

OmniCure@LDGI.com



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