

OmniCure S2000

The most intelligent UV spot curing system of its kind



Powerful 200 Watt Intelli-Lamp® with a guaranteed lamp life of 2000 hours

Maximum trigger shutter activation latency of only 50 ms in Programmable Logic Controller (PLC) mode

Convenient, downloadable StepCure® software without the requirement of an external Desktop PC

Repeatable cures with Closed-Loop Feedback technology for even the most advanced assembly process

Optional OmniCure® R2000 Radiometer can be combined to calibrate and set absolute irradiance levels from a single reference point



The OmniCure Advantage In Spot Curing Systems

Recognized as the global leader in bonding systems for precision assembly with light-cured adhesives, the OmniCure S2000 provides the power, control and repeatability required for high-speed automated manufacturing assembly. Offering a powerful 200 Watt lamp with a guaranteed life of 2000 hours, the OmniCure S2000 also offers Closed-Loop Feedback technology and a flexible PC software interface for computer-controlled operation. When combined with OmniCure's R2000 Radiometer, the OmniCure S2000's precision and reliability is unmatched. The OmniCure S2000 is also designed to adhere to regulatory validations and is RoHS compliant.



Fast Shutter Activation

The OmniCure S2000 is equipped with a fast shutter activation time, providing a maximum trigger shutter activation latency of only 50ms in PLC mode.

Downloadable StepCure



StepCure software can download a customized multi-phase cure profile directly to the system. Previously only available when connected to an external Desktop PC, this option offers users greater cure control.

200 Watt Intelli-Lamp

The powerful 200 Watt Intelli-Lamp provides even faster curing with high UVA irradiance of up to 10W/cm². With automatic lamp hour tracking and broad spectral output, OmniCure's patented technology makes the S2000 suitable for a wide range of adhesive/substrate bonding applications.

Closed-Loop Feedback

Over time, lamp intensity diminishes effective curing. The OmniCure S2000 internal intensity sensor monitors light output in real time and opens the iris to automatically correct light output within +/-5%, ensuring repeatable and measurable doses of energy every time.



Intelligent Automation



Easily integrated into automated systems, the OmniCure S2000 is ideal for automated processes, minimizing development time. The system can be programmed and controlled externally from a PLC, with or without an external dongle. PC software and commands are included with the system.



Expanding Your Options

Light Delivery

To accommodate the various needs of its customers, the OmniCure S2000 is adaptable to four different light guide options. Ideally used with a multi-legged High Power Fiber Light Guide to cure multiple sites with a single light source; Single-Legged, Liquid-Filled and Fiber Light Guides are also available.

High Power
Fiber Light Guide



Liquid
Light Guide



High Power
Fiber Light Line

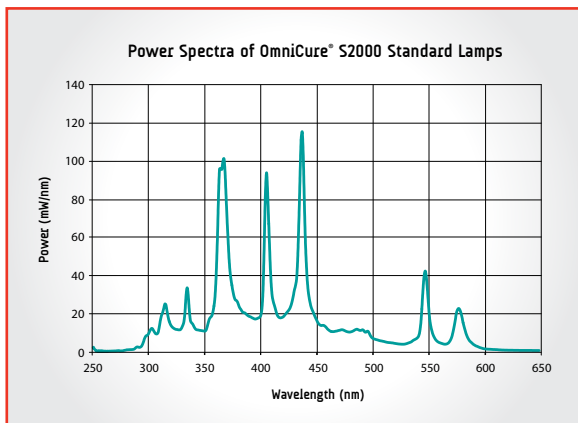


OmniCure R2000

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 curing system to provide a complete curing station with unmatched control and repeatability.



Optional Accessory:
OmniCure R2000 Radiometer



Flexible Spectral Output

The broad spectral output makes the OmniCure S2000 ideal for a wide range of applications. Selectable bandpass filters allow you to customize the light for your specific application.

FEATURES	BENEFITS
Faster Shutter Activation Time	70% improvement of shutter activation latency increasing productivity, especially for high volume manufacturing
Downloadable StepCure Software	Download customized multi-phase cure profiles directly to the unit. No need for a permanently connected PC
Modified PLC Level Mode	Provides trigger signal versatility by selecting either edge or level modes
200 W lamp technology with up to 30 W/cm ² of output and a 2000 hour lamp life guarantee	Lower operating costs
Intelli-Lamp Technology to cool lamp and monitor lamp hours	Maintain optimum operating condition, stable lamp output, longer lamp life, accumulated lamp hours
2 Lamp Options	Special lamp technology for acrylic adhesives provides a tack-free surface cure
Closed-Loop Feedback Technology	Automatically maintains a constant output for a repeatable curing process
External PC Controlled	Beneficial for automated assembly processes
Adjustable light output in 1% increments	Allowing very precise control of output
Easily combined with the OmniCure R2000 Radiometer	Calibrate and set absolute irradiance levels wirelessly from a single reference point

TECHNICAL SPECIFICATIONS	
Lamp	High Pressure 200 Watt Mercury Vapor Short Arc
Lamp Life	2000 hours (guaranteed)
Available Filters	Standard: 320-500 nm Optional: 250-450 nm*, 365 nm, 320-390 nm, 400-500 nm
Panel Controls	Power On/Off, Display Mode, Adjust Up/Down, Start/Stop, Lock/Unlock
Panel Displays	Accumulated lamp usage, Exposure time (0.2 - 999.9 sec), iris setting (0-100%) / irradiance level (0.2 W/cm ² - 40 W/cm ²), lamp on/warm-up, shutter open, calibrated, Light Guide detection, shutter/lamp error
Warm-up Period	4-minutes (typical)
Power In	100-120 VAC / 200-240 VAC, 50/60 Hz
Power Supply	High efficiency, switch mode, line isolated

GENERAL SPECIFICATIONS	
Dimensions (L x W x H)	13.3" x 7.1" x 7.9" (33.8 cm x 18.0 cm x 20.1 cm)
Weight	9.9 lbs (4.5 kg)
Includes	Lamp Module, Selected Filter (installed), Protective Eyewear, Grounded and Shielded Power Cord, Foot Pedal, Manual
Warranty	1 year (excluding Lamp and Light Guide)

* Blank filter; must be used with Fiber or Extended Range Light Guide

To learn more about OmniCure UV curing solutions, please visit www.excelitas.com/omnicure.



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