

UV/Visible Spot Curing System

# OmniCure® S2000

The OmniCure® S2000  
UV/Visible Spot Curing  
System is the most  
intelligent system of its kind

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

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

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

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

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

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# The OmniCure® S2000

## 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/cm<sup>2</sup>. With automatic lamp hour tracking and broad spectral output, OmniCure®'s patented technology makes the OmniCure® 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.



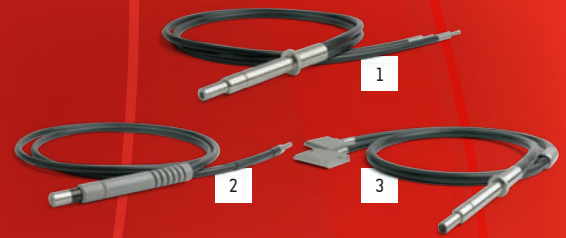
# Expanding Your Options

## Light Delivery

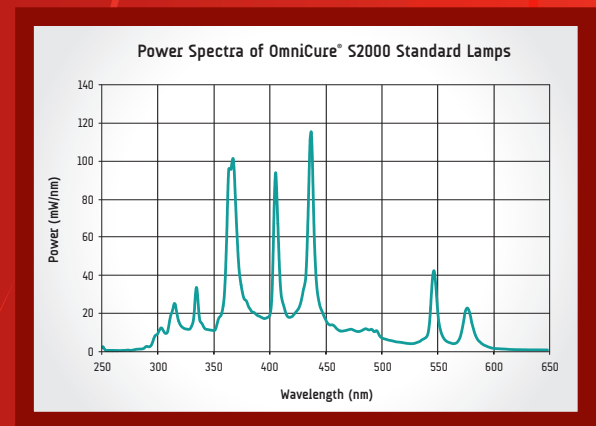
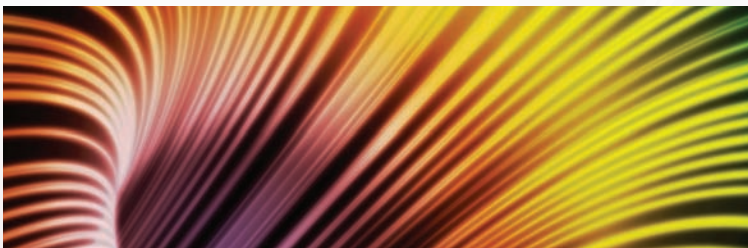
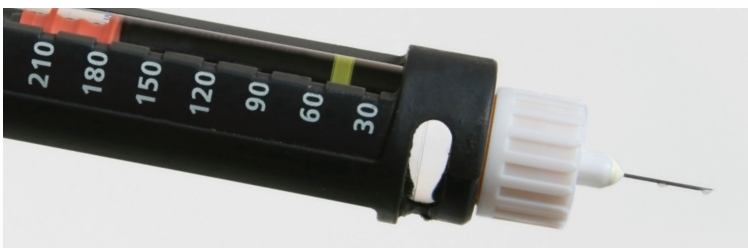
To accommodate the various needs of its' customers, the OmniCure® S2000 is adaptable to four different light guide options. Ideally used with a multi-legged High Power Fiber Light Guide to cure multiple sites with a single light source, Single-Legged, Liquid-Filled and Fiber Light Guides are also available.



Optional Accessory:  
OmniCure® R2000 Radiometer



1. High Power Fiber Light Guide
2. Liquid Light Guide
3. High Power Fiber Light Line



## 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
200W lamp technology with up to 30W/cm <sup>2</sup> 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

DESCRIPTION	
Lamp	High Pressure 200 Watt Mercury Vapor Short Arc
Lamp Life	2000 hours (guaranteed)
Available Filters	Standard: 320-500nm Optional: 250-450nm*, 365nm, 320-390nm, 400-500nm, 250-600nm*
Panel Controls	Power On/Off, Display Mode, Adjust Up/Down, Start/Stop, Lock/Unlock
Panel Displays	Accumulated lamp usage, Exposure time (0.2 - 999.9sec), iris setting (0-100%) / irradiance level (0.2W/cm <sup>2</sup> - 40W/cm <sup>2</sup> ), lamp on/warm-up, shutter open, calibrated, Light Guide detection, shutter/lamp error
Warm-up Period	4-minutes (typical)
Power In	100-120VAC / 200-240VAC, 50/60Hz
Power Supply	High efficiency, switch mode, line isolated

GENERAL SPECIFICATIONS	
Dimensions (LxWxH)	13.3" x 7.1" x 7.9" (33.8cm x 18.0cm x 20.1cm)
Weight	9.9lbs (4.5kg)
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

**EXFO**  
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Industrial Division  
putting you in control

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