

UV/Visible Spot Curing System

OmniCure® S1000

The OmniCure® S1000 Provides Excellent Versatility in a Cost-Effective System

100W lamp with a broad spectral output

Intelli-Lamp® technology to cool and monitor the lamp for extended lamp life (typically 2000 hours) and optimal performance

Automatic lamp striking with hot strike prevention that will protect lamp life

Adjustable light output in 1% increments for precise control

Selectable bandpass filters to customize light wavelengths for specific applications

Easy-to-use finger touch controls with LED display



OmniCure® S1000

The OmniCure® Advantage In Spot Curing Systems

The OmniCure® S1000, the entry-level system in the OmniCure® Platform, provides excellent versatility in a cost-effective system. Ideal for manual or semi-automated processes, this system contains many features previously found only in higher-priced curing systems.

Easy to Use

Finger touch controls, a bright orange LED display, process indicators and automatic lamp striking make the OmniCure® S1000 simple to use. The snap-in lamp insertion and low noise fan improves ongoing operation.

Intelligent

The OmniCure® S1000 includes many built-in features which are normally found only in higher-priced curing systems. They include an adjustable iris, patented Intelli-Lamp® technology, bandpass filters, process alarms, and password protection.

Versatile

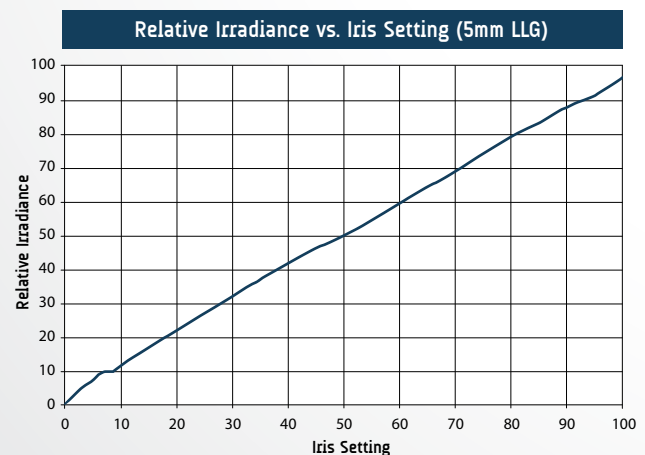
The OmniCure® S1000 includes a powerful 100W lamp providing high-intensity curing and over 2000 hours of lamp life. The broad spectral output makes it ideal for a wide range of applications, while the adjustable iris and selectable bandpass filters allow you to control the light for your specific application.

Adjustable Iris

The adjustable iris allows you to select very precise irradiance levels for your curing application. The iris setting is adjustable in 1% increments with a very linear relationship between the iris position and the output irradiance.

Radiometer Control

For even greater control, combine your OmniCure® S1000 with the OmniCure® R2000 Radiometer to adjust the output to specific irradiance values. Over time, lamp output diminishes effective curing. The OmniCure® R2000 Radiometer enables you to measure the irradiance from the OmniCure® S1000 and, when necessary, adjust the manual iris to compensate for any change in lamp output.





Expanding Your Options

Light Delivery

To accommodate the various needs of its customers, the OmniCure® S1000 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.



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



Optional Accessory:
OmniCure® R2000 Radiometer

Flexible Spectral Output

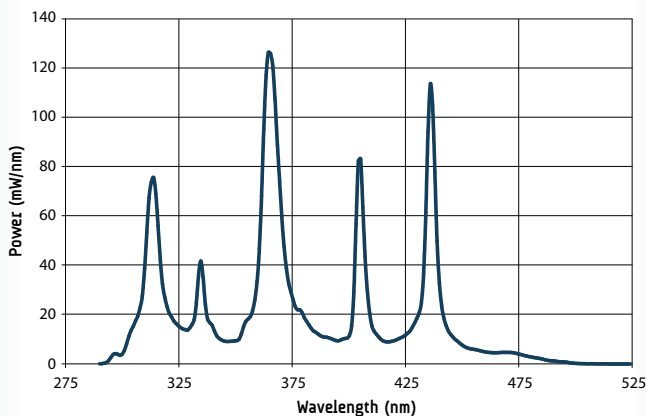
The broad spectral output makes the OmniCure® S1000 ideal for a wide range of applications. Selectable bandpass filters allow you to customize the light for your specific application.

OmniCure® S1000 Filter Options

(W/cm²), 5mm LG & 0mm Working Distance

Filter Range (nm)	Notes on Typical Applications
320-500	General Purpose – suitable for most UV and visible light curing Epoxy and Acrylic adhesives on a broad variety of substrates.
400-500	Visible light output – used with visible curing Acrylic adhesives, particularly when UV-sensitive substrates are involved.
320-390	Narrow band filter – some Epoxy adhesives have superior response to this filter. May also be used when unwanted substrate heating results from visible light irradiation.
365	Peak filter – may be used when unwanted substrate heating results from UV and/or visible light irradiation.
250-450	Provides some UVC input that can be helpful for surface curing of Acrylic adhesives. Must be used in conjunction with an Extended Range Liquid Light Guide or a Quartz Fiber Light Guide.

Power Spectra of OmniCure® S1000 Standard Lamps



FEATURES	BENEFITS
Powerful 100W lamp with a broad spectral output	Versatility: Delivers the intensity and wavelength required for a broad range of applications; ideal for use with multi-legged Light Guides
Long lamp life - 2000 hours (typical)	Lower operating costs
Iris adjustments in 1% increments	Select the specific output intensity required
Advanced shutter/iris wheel	Tested to over 6 million activations for increased reliability
Intelli-Lamp® technology	Maintains optimum operating conditions, stable lamp output, longer lamp life, accumulated lamp hours
Finger touch control panel with LED display	Easy to use
Selectable bandpass filters	Customize the light wavelengths for your application
Shutter, lamp and Light Guide alarms	Confirms process: ensures repeatability and quality control
Hot strike prevention	Protects lamp life
Password protection	Protects settings for ensured repeatability
Foot pedal (standard)	Convenient hands-free operation
Low-noise fan	Quiet operation in the workplace
Small footprint	Ideal for bench-top use and small workstations

DESCRIPTION	
Lamp	High-pressure 100W Mercury Vapor Short Arc
Lamp life	2000 hours (typical)
Available filters	Standard: 320-500nm Optional: 250-450nm*, 365nm, 320-390nm, 400-500nm, NO FILTER*
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%), lamp on, shutter open, Light Guide detection, shutter/lamp error, lamp warm-up
Warm-up period	90 seconds (typical)
Power in	100-120VAC / 200-240VAC, 50/60Hz
Power supply	High efficiency, switch mode, line isolated
Certifications	CE Marked, certified to IEC, Canadian and US Standards, RoHs compliant

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)

* This configuration must be used with Fiber or Extended Range Light Guide



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For a detailed look at our application solutions visit: www.LDGI-OmniCure.com/applications.php

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