

OmniCure R2000 Radiometer

Your Technology Advantage for a Repeatable UV Process

Accurate radiometry is essential to maintaining a calibrated and repeatable UV curing process suitable for consistent, high-quality production. The OmniCure® R2000 Radiometer is the most advanced and accurate tool for measuring irradiance or power from your UV Spot Curing System. The portable OmniCure R2000 can be combined with the OmniCure S2000 system to provide a complete curing station with unmatched control and repeatability.

Maintain process control and save setup time by calibrating multiple systems with a preferred irradiance set point

Achieve accurate wideband measurements with our proprietary detector systems

Virtually eliminate beam profile dependence and significantly improve measurement accuracy through our proprietary optical interface

Store data and communicate with PC software for downloading

Ready for use with additional custom accessories such as the Cure Ring and the Cure Site Detectors



OmniCure R2000 Radiometer

Expanding Your Options



PROXIMITY ADAPTOR

The proximity adaptor allows the user to obtain accurate application-specific power or irradiance measurements in flood geometry. Measurements are done by placing the emitting end of the light directly over the top of the proximity adaptor, inserted into the OmniCure® R2000 Radiometer.



LAMP OUTPUT ADAPTOR

The lamp output adaptor is a rigid adaptor that interfaces the curing unit and light source to allow direct measurements of the lamp power. This optical accessory is very important for system maintenance as it can be used to determine if the Light Guide requires replacement due to degradation.



CURE RING DETECTOR

When used in conjunction with the OmniCure R2000 Radiometer, the Cure Ring Detector measures output power from the Cure Ring directly at the cure site, ensuring a highly repeatable process.



CURE SITE DETECTOR

When used in combination with the OmniCure R2000 Radiometer, the Cure Site Detector measures output power of a Light Guide or optical accessory directly at the cure site. This provides accurate data for energy calculations, enabling the user to control the curing process more accurately.

DESCRIPTION

| | |
|------------------|--|
| Wavelength Range | 250 nm - 1µm (with suitable calibration) |
| Maximum Range | Power: 1 mW-12 W Irradiance: 5 mW/cm ² -60 W/cm ² (with 5 mm Light Guide) |
| Resolution | Power: 1 mW Irradiance: 5 mW/cm ² (with 5 mm Light Guide) |
| Accuracy | +/- 5% typical; +/- 10% maximum |
| Auto-ranging | Power: 1-990 mW; 1.0-12.00 W Irradiance: 5-990 mW/cm ² ; 1.0-60 W/cm ² |
| Battery | 3.6V Li |
| Battery Life | 2 years, typical (intermittent use) |
| Functions | Irradiance Measurement, Power Measurement, Automatic Light Guide Detection, Relative Mode, OmniCure Calibration, Store Data Points, External Input, On Button, Auto Off, Calibration Due Message |
| Certification | CE marked; complies with IEC, Canadian and US Standards, RoHS compliant |

GENERAL SPECIFICATIONS

| | |
|------------------------|---|
| Dimensions (L x W x H) | 7 1/2" x 4 3/8" x 2" (19.0 cm x 11.1 cm x 5.0 cm) |
| Weight | 1 lb (450 g) |
| Warranty | 1 year |

¹Calibration of the OmniCure® R2000 Radiometer is recommended every twelve months. Contact Excelitas Technologies for further information.

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



www.excelitas.com
omnicure@excelitas.com

2260 Argenta Road
Mississauga, Ontario
L5N 6H7 CANADA

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

For a complete listing of our global offices, visit www.excelitas.com/locations

© 2014 Excelitas Canada Inc. OmniCure® is a registered trademark of Excelitas Canada Inc. The Excelitas logo and design are registered trademarks of Excelitas Technologies Corp. All other trademarks are the property of their respective owners, and neither Excelitas Technologies Corp., its affiliates or subsidiaries, or any of their respective products, are endorsed or sponsored by or affiliated in any way whatsoever with those organizations whose trademarks and/or logos may be mentioned herein for reference purposes. Excelitas Canada Inc. reserves the right to change this document at any time without notice and disclaims liability for editorial, pictorial or typographical errors.