

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.



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