Radiometry

OmniCure® R2000 Radiometer

The OmniCure® R2000 Radiometer: Your Technology Advantage for a Repeatable Assembly 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. Developed in cooperation with the OmniCure® Platform of UV Curing Systems, the portable OmniCure® R2000 Radiometer offers unmatched performance to calibrate and set irradiance levels on your OmniCure® S2000 Curing System.

- Using a single Radiometer, maintain process control and save setup time by calibrating multiple systems with a preferred irradiance set point
- Proprietary detector system for accurate wideband measurements suitable for many different light sources
- Proprietary optical interface that virtually eliminates beam profile dependence and significantly improves measurement accuracy
- Memory for storing data and communicating with PC software for downloading
- Ready for use with additional custom accessories such as the Cure Ring Detector and the Cure Site Detector

LUMEN DYNAMICS
PUTTING YOU IN CONTROL

OmniCure®
UV Bonding • In Control

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	250nm - 1µm (with suitable calibration)
Maximum Range	Power: 1mW-12W Irradiance: 5mW/cm^2-60W/cm^2 (with 5mm Light Guide)
Resolution	Power: 1mW Irradiance: 5mW/cm^2 (with 5mm Light Guide)
Accuracy	+/- 5% typical; +/- 10% maximum
Auto-ranging	Power: 1-990 mW; 1.0-12.00W Irradiance: 5-990mW/cm^2; 1.0-60W/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 (LxWxH)	7 1/2" x 4 3/8" x 2" (19.0cm x 11.1cm x 5.0cm)
Weight	1lb (450g)
Warranty	1 year

[1]Calibration of the OmniCure® R2000 Radiometer is recommended every twelve months. Contact Lumen Dynamics for further information.

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