

R2000 RADIOMETER

ACCURATELY MEASURE POWER OR IRRADIANCE



The EXFO R2000 Radiometer is the most advanced and accurate tool for measuring irradiance. Developed in cooperation with the EXFO OmniCure® Platform of UV Curing Systems, the EXFO R2000 portable Radiometer offers unmatched performance to calibrate and set irradiance levels on your OmniCure® Series 2000 curing system through wireless or serial communication.

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EXFO

EXPERTISE REACHING OUT

REPEATABILITY

CONTROL

SPEED

PRECISION

Precision Technology Light Years Ahead

Light Guide Port

Automatically senses a diverse range of any industry standard light guide diameters.

Control/Display

User-friendly controls and comprehensive display for easy unit operation and maintenance.

Accuracy

The EXFO R2000 Radiometer includes a proprietary detector system for accurate broadband measurement and maintains precision between 250nm-600nm. The EXFO R2000 Radiometer is auto-ranging to maintain precision from $5\text{mW}/\text{cm}^2$ - $60\text{W}/\text{cm}^2$.

Control

Custom electronic configurations built into the EXFO R2000 Radiometer allows for the connection of custom sensors to be added that will measure light energy directly at the cure site. Cure Site Radiometry provides the most advanced and accurate form of process control by measuring the actual amount of light seen by the adhesive.

Repeatability

The EXFO R2000 Radiometer's proprietary optical interface collects light over a large area and numerical aperture, virtually eliminating beam profile dependence.

OmniCure® Series 2000

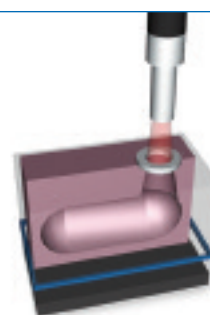
The EXFO R2000 Radiometer, developed in cooperation with EXFO's OmniCure® Platform of UV Spot Curing Systems will inherit unique features when specifically used with the OmniCure® Series 2000. Wireless communication between the EXFO R2000 Radiometer and the OmniCure® Series 2000 Spot Cure System allows the user to calibrate their system and set irradiance levels through the advanced EXFO R2000 Radiometer interface controls.



Cure Site Radiometry



Optical Interface



OmniCure® Series 2000



Features

Benefits

Accurate broadband measurement between 250-600nm	Suitable for many different light sources
Measures power or irradiance	Allows for industry specific measurements
Optical interface; collects light over a large area and numerical aperture (NA)	Eliminates beam intensity and radiance dependence; significantly improves measurement accuracy
Auto-ranging	Maintains precision over full range
Relative mode	References all measurements to a benchmark value
Fits standard Light Guides (2mm, 3mm, 5mm, 8mm)	Automatically senses the diameter of industry standard Light Guides
CE marked; complies with IEC, Canadian and US Standards	Ready for use worldwide
Calibration traceable to NIST	Quality Assurance
Wireless and/or serial communication with the OmniCure® Series 2000 to set irradiance levels and calibrate system	Easy to set system and maintain process control
Light Guide detector and color coded adaptors to ensure accurate measurements	Automatically calculates irradiance values based on light guide diameter
Memory for storing data with PC software for downloading	Check “as found” status of the curing system and download data to a PC

Proximity Measurement Adaptor

The proximity measurement 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 EXFO R2000 Radiometer.

Proximity Measurement Adaptor



Lamp Output Adaptor

The lamp output adaptor is a rigid adaptor that interfaces the EXFO R2000 Radiometer 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.

Lamp Output Adaptor



Specifications

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

General Specifications

Dimensions	7 1/2 " x 4 3/8 " x 2 " 19.1cm x 11.1cm x 5.1cm
Weight	1lbs 450g

Warranty

1 year

*Calibration of the EXFO R2000 Radiometer is recommended every 12 months.

Contact EXFO Precision Assembly Group at bdg.toronto@exfo.com or +1 905 821-2600 for further information.



EXFO Precision Assembly Group is certified under the ISO 9000 Quality Management System. Our global customers can trust that EXFO strives to be the best possible supplier in all aspects of our business.

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