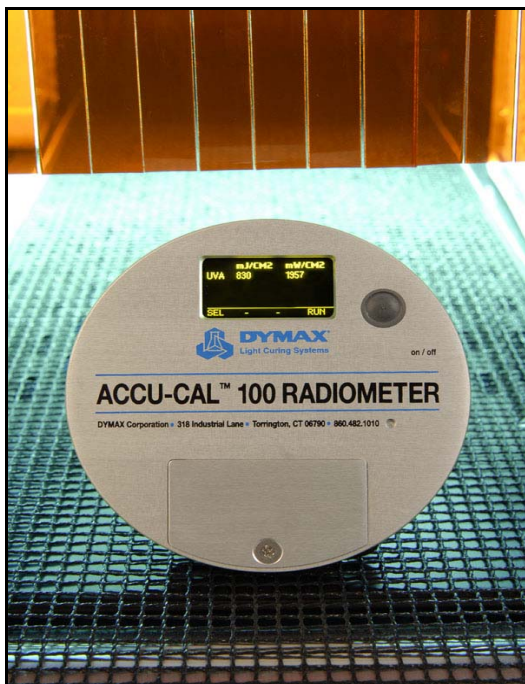


# ACCU-CAL™ 100 RADIOMETER

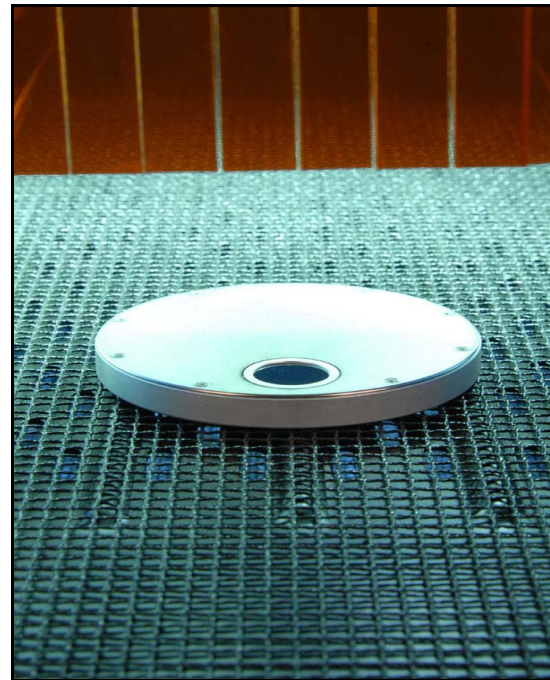
## For UV Light Curing Flood Lamps and Conveyor Systems

Consistent UV curing requires periodic monitoring of UV intensity or dose. The ACCU-CAL™ 100 radiometer is simple to operate and offers repeatable measurement of UV light. The ACCU-CAL 100 can measure UV light up to 10 W/cm<sup>2</sup> emitted from stationary flood curing lamps or lamps used in conveyorized processes. This radiometer can be used to determine intensity (measured in mW/cm<sup>2</sup>) or total energy as derived from intensity and exposure time (measured in mJ/cm<sup>2</sup>). The ACCU-CAL 100 radiometer greatly simplifies both validating and monitoring a UV curing process.

**Simple to Operate • PTB and NIST Traceable • CE Marked**



ACCU-CAL 100 for measuring UV light emitted from UV light curing flood lamps and conveyor systems only  
PN 39677



ACCU-CAL 100 is shown measuring the UV light transmission inside a DYMAX UV curing conveyor system

## TWO REASONS TO USE A UV RADIOMETER

**Validating and Maintaining a Light-Curing Process** – A radiometer provides a quantifiable measurement that verifies if the UV curing process is operating within the qualified parameters. Since all UV bulbs degrade over time, the radiometer will reveal the optimal time for bulb replacement in the UV curing device. Radiometers provide the same monitoring control for light-curing processes that thermometers provide for thermal processes.

**Measuring Transmission Rates Through Substrates** – A radiometer can be used to measure the light transmission rates of various wavelengths through substrates that absorb UV and/or visible light. To assure an effective curing process it is critical to measure the light intensity reaching the resin below the intervening substrate.

## SPECIFICATIONS

<b>Part Number</b>	<b>39677</b>
<b>Light Sources</b>	UV curing flood lamps and conveyor systems
<b>Spectral Sensitivity</b>	320 to 390 nm
<b>Intensity Range</b>	10 mW/cm <sup>2</sup> to 10 W/cm <sup>2</sup>
<b>Accuracy</b>	± 10%, ± 5% typical
<b>Resolution</b>	Intensity (1 mW/cm <sup>2</sup> ) Dose (1 mJ/cm <sup>2</sup> )
<b>Calibration Period</b>	6 months
<b>Operating Temperature Ranges</b>	0-75°C Internal temperature; tolerates high external temperatures for short periods (audible alarm indicates when temperature has exceeded tolerance)
<b>Measurements</b>	Peak Intensity (mW/cm <sup>2</sup> ) Dose (mJ/cm <sup>2</sup> )
<b>Power Supply</b>	Two (2) AAA batteries
<b>Battery Life</b>	20 hours with display on (automatic shutoff after 2 minutes)
<b>Instrument Dimensions</b>	4.60 x 0.50 inches; 117 mm x 12.7 mm (D x H)
<b>Instrument Weight</b>	10.1 ounces (289 grams)
<b>Instrument Materials</b>	Aluminum, stainless steel
<b>Carrying Case Dimensions</b>	10.75 x 3.5 x 7.75 inches; 274 x 89 x 197 mm (W x H x D).
<b>Carrying Case Weight</b>	9 ounces (260 grams)
<b>Carrying Case Materials</b>	Cut polyurethane interior, scuff resistant nylon exterior cover

For further assistance with adhesive and equipment selection, contact your DYMAX Applications Engineer.



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 In North and South America Call: 860.482.1010  
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