

# ACCU-CAL<sup>™</sup> 150 Radiometer

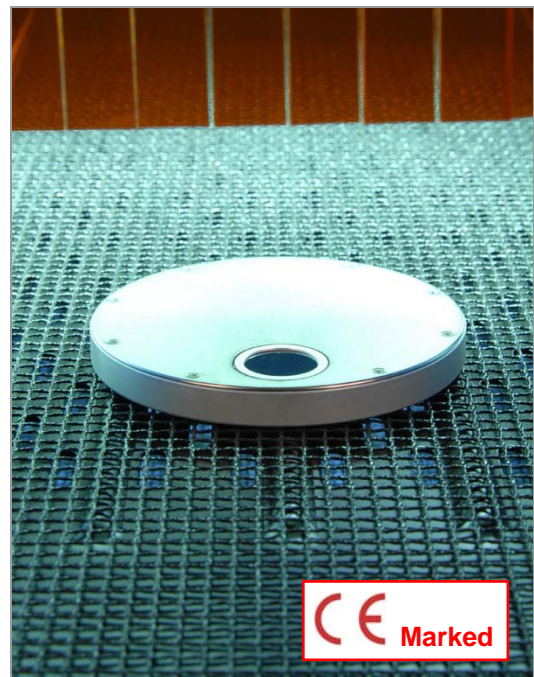
## For UV Light-Curing Flood Lamps and Conveyor Systems

Consistent UV curing requires periodic monitoring of UV intensity or dose. The ACCU-CAL<sup>™</sup> 150 radiometer is simple to operate and offers repeatable measurement of UV light. The ACCU-CAL 150 can measure UV light up to 10 W/cm<sup>2</sup> emitted from stationary light-curing flood 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 150 radiometer greatly simplifies both validating and monitoring a UV light-curing process.

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



ACCU-CAL 150 for measuring UV light emitted from UV light-curing flood lamps and conveyor systems only (PN 40550)



ACCU-CAL 150 is shown measuring the UV light transmission inside a DYMAX 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 light-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>PN 40550</b>
<b>Light Sources</b>	UV light-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 (D x H)</b>	4.60" x 0.50" (117 mm x 12.7 mm)
<b>Instrument Weight</b>	10.1 ounces (289 grams)
<b>Instrument Materials</b>	Aluminum, stainless steel
<b>Carrying Case Dimensions (W x H x D)</b>	10.75" x 3.5" x 7.75" (274 mm x 89 mm x 197 mm)
<b>Carrying Case Weight</b>	9 ounces (260 grams)
<b>Carrying Case Materials</b>	Cut polyurethane interior; scuff-resistant nylon exterior cover
<b>Optional Data Download Kit</b>	<b>PN 40629</b> - Allows data capture and download to PC

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