

ACCU-CAL[™] 150 Radiometer

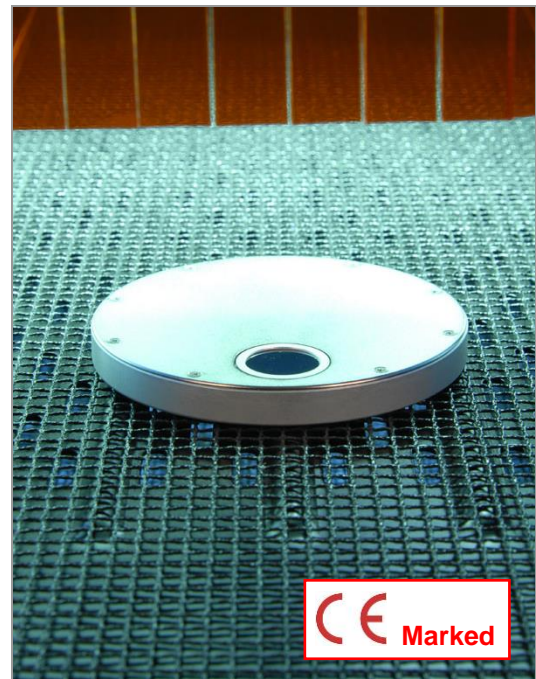
For UV Light-Curing Flood Lamps and Conveyor Systems

Consistent UV curing requires periodic monitoring of UV intensity or dose. The ACCU-CAL[™] 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/cm² emitted from stationary light-curing flood lamps or lamps used in conveyorized processes. This radiometer can be used to determine intensity (measured in mW/cm²) or total energy as derived from intensity and exposure time (measured in mJ/cm²). 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

Part Number	PN 40550
Light Sources	UV light-curing flood lamps and conveyor systems
Spectral Sensitivity	320 to 390 nm
Intensity Range	10 mW/cm ² to 10 W/cm ²
Accuracy	± 10%, ± 5% typical
Resolution	Intensity (1 mW/cm ²) Dose (1 mJ/cm ²)
Calibration Period	6 months
Operating Temperature Ranges	0-75°C internal temperature; tolerates high external temperatures for short periods (audible alarm indicates when temperature has exceeded tolerance)
Measurements	Peak intensity (mW/cm ²) Dose (mJ/cm ²)
Power Supply	Two (2) AAA batteries
Battery Life	20 hours with display on (automatic shutoff after 2 minutes)
Instrument Dimensions (D x H)	4.60" x 0.50" (117 mm x 12.7 mm)
Instrument Weight	10.1 ounces (289 grams)
Instrument Materials	Aluminum, stainless steel
Carrying Case Dimensions (W x H x D)	10.75" x 3.5" x 7.75" (274 mm x 89 mm x 197 mm)
Carrying Case Weight	9 ounces (260 grams)
Carrying Case Materials	Cut polyurethane interior; scuff-resistant nylon exterior cover
Optional Data Download Kit	PN 40629 - Allows data capture and download to PC

RADIOMETER CALIBRATION

Dymax recommends calibrating the ACCU-CAL™ 150 radiometer every six months to ensure proper operation of the instrument. Calibration services are available through Dymax. Please contact Dymax Customer Support for more information.



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