

Consistent UV curing requires periodic monitoring of UV intensity or dose. The ACCU-CAL™ 50 radiometer is simple to operate and offers repeatable measurement of UV light. The ACCU-CAL™ 50 can measure UV light emitted from lightguides (3 mm, 5 mm, and 8 mm), UV flood systems, and UV conveyors. With a spectral sensitivity from 320 to 395 nm (UVA), the ACCU-CAL™ 50 measures intensities from 1 mW/cm<sup>2</sup> to 40 W/cm<sup>2</sup>. A specially designed photo-sensor assembly protects the photo-sensor from the high temperatures sometimes associated with today's high intensity UV spot lamps.

**Simple to Operate ✦ Set Screw Locks Lightguide in Place ✦ PTB and NIST Traceable**



ACCU-CAL™ 50 for measuring floods and conveyors only



ACCU-CAL™ 50 for measuring spots, floods, and conveyors

- ✦ **! " " –** A radiometer measures whether a light curing system is providing intensity above the "bulb change" intensity. Radiometers provide the same monitoring control for light curing processes that thermometers provide for thermal processes.
- ✦ **# \$ % &! ' ! \$0 ! " " –** The ACCU-CAL™ 50 is sufficiently sensitive to measure the intensity of stray or reflected UV light (as little as 1 mW/cm<sup>2</sup>). DYMAX recommends that worker UVA exposure not exceed 1 mW/cm<sup>2</sup>. For reference, UV (320-395 nm) intensity on a sunny day can range from 2-6 mW/cm<sup>2</sup>.
- ✦ **! " " " " ! " + " ! " –** A radiometer can be used to measure the 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.

.! ( ! " # )	320 to 395 nm
! " ) !	1 mW/cm <sup>2</sup> to 40 W/cm <sup>2</sup>
!" (	Intensity (1 mW/cm <sup>2</sup> ; to three significant digits) Dose (1 mJ/cm <sup>2</sup> )
(+ ! \$	12 months
.! !* ! ! !"	Optometer: +5 to +40°C Detector: 120°C continuous, Peak 200°C
! " !* ! \$!"	Intensity (mW/cm <sup>2</sup> and W/cm <sup>2</sup> ) Peak Intensity (mW/cm <sup>2</sup> and W/cm <sup>2</sup> ) Dose (J/cm <sup>2</sup> )
!"	Lightguides (3 mm, 5 mm, and 8 mm) Floods/Conveyors
0 ! .. 0	Two (2) AA batteries
! ) ;!	250 hours (automatic shutoff after 1 hour)
! " * ! " "	Photo-Sensor Diameter = 9 mm Diameter = 37 mm Thickness = 8 mm Cable Length = 1 M
!! * ! " "	120 mm (Length) x 65 mm (Width) x 23 mm (Thickness)

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ACCU-CAL™ 50 for Flood Lamps and Conveyors	<= 9 >	Complete radiometer (without lightguide adapters) Includes storage/carrying case
ACCU-CAL™ 50 for Spot and Flood Lamps and Conveyors	<= 9	Complete radiometer with lightguide adapters (3 mm, 5 mm, and 8 mm) Includes storage/carrying case
Flood to Spot Adapter Kit	<= ?	Kit includes three lightguide adapters (3 mm, 5 mm, and 8 mm) and a lightguide simulator*
3 mm Lightguide Adapter	<= 9	Fits 3 mm ID lightguides (5 mm OD)
5 mm Lightguide Adapter	<= @	Fits 5 mm ID lightguides (7 mm OD)
8 mm Lightguide Adapter	<= A	Fits 8 mm ID lightguides (10 mm OD)
5 mm Lightguide Simulator	<A? A	5 mm lightguide simulator with a standard D connection

\*A lightguide simulator is used to measure direct spot lamp intensity (required to calculate lightguide transmission)

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7 8 9 , - . . \$ \* ! " \$ ) \* ! " . ( " ! : !! DYMIX does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained in DYMIX's standard Conditions of Sale. DYMIX recommends that any intended application be evaluated and tested by the user to insure that desired performance criteria are satisfied. DYMIX is willing to assist users in their performance testing and evaluation by offering equipment trial rental and leasing programs to assist in such testing and evaluation. Data sheets are available for valve controllers or pressure pots upon request

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