

Dymax ACCU-CAL™ 50 UV Radiometer Smart UV Intensity Meter



Description

Consistent UV curing requires periodic monitoring of UV intensity or dose with a UV intensity meter. The **Dymax ACCU-CAL 50 Radiometer** is simple to operate and offers repeatable measurement of UV light.

There are two types of ACCU-CAL 50 radiometers:



ACCU-CAL 50 UV Intensity Meter

can measure UV light emitted from broad-spectrum lightguides (3mm, 5mm and 8mm), UV flood systems and UV conveyors. With a spectral sensitivity of 320nm to 390nm (UV-A), it measures

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intensities from 1mW/cm² to 40 W/cm².



ACCU-CAL 50-LED UV Intensity Meter

Dymax ACCU-CAL™ 50 UV Radiometer

Smart UV Intensity Meter



measures UV light emitted from LED UV equipment and has a spectral sensitivity of 350nm to 450nm. A specially designed detector assembly protects the photo-sensor from the high temperatures sometimes associated with modern high intensity [UV curing spot lamps](#), which can lead to inaccurate measurements. Fixtures are supplied which lock UV lamp lightguides into position over the sensor, giving accurate and repeatable measurements. The ACCU-CAL 50 features an easy-to-use instruction set with a simple, clear display and three button operation.

Features & Benefits

- Simple to operate
- Compact, hand-held, battery operated instrument
- Set screw locks lightguide in place for accuracy and repeatability
- PTB and NIST traceable
- Monitor and maintain a consistent light curing process
- Ensure a safe and operator friendly light curing process
- Measure transmission rates through substrates

Specifications

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Specification	ACCU-CAL 50	ACCU-CAL 50-LED
Spectral sensitivity	320nm to 390nm	350nm to 450nm
Intensity range	1mW/cm ² to 40 W/cm ²	1mW/cm ² to 40 W/cm ²
Resolution	Intensity: 1mW/cm ² to three significant digits Dose: 1mJ/cm ²	Intensity: 1mW/cm ² to three significant digits Dose: 1mJ/cm ²
Calibration period	12 months	12 months
Operating temperatures	Optometer (instrument): +5 to +40°C Detector (sensor): 120°C continuous, 200°C peak	Optometer (instrument): +5 to +40°C Detector (sensor): 120°C continuous, 200°C peak
Measurement modes	Intensity: mW/cm ² and W/cm ² Peak intensity: mW/cm ² and W/cm ² Dose: J/cm ²	Intensity: mW/cm ² Peak intensity: mW/cm ² Dose: J/cm ²

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Specification	ACCU-CAL 50	ACCU-CAL 50-LED
Light sources	Light guides (3, 5 & 8mm dia) Flood lamps Conveyors	Light guides (3, 5 & 8mm dia) LED Flood Lamps
Power supply	2 x AA batteries	2 x AA batteries
Battery life	250 hours (automatic shut off after 1 hour)	250 hours (automatic shut off after 1 hour)
Detector (sensor) dimensions	Sensor aperture: 9mm Diameter: 37mm Thickness: 8mm Cable length: 1m	Sensor aperture: 9mm Diameter: 37mm Thickness: 8mm Cable length: 1m
Optometer (instrument) dimensions	120 x 65 x 23mm	145 x 63 x 30mm

Ordering Information

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Part number	Description
DYM39561	ACCU-CAL 50 for flood lamps and conveyors. Complete radiometer (without lightguide adaptors). Includes storage/carrying case.
DYM39560	ACCU-CAL 50 for spot and flood lamps and conveyors. Complete radiometer with lightguide adaptors (3, 5 & 8mm). Includes storage/carrying case.
DYM40505	ACCU-CAL 50-LED for LED spot and flood units. Complete radiometer with lightguide adaptors (3, 5 & 8mm) and lightguide simulator. Includes storage/carrying case.
DYM40519	ACCU-CAL 50-LED for LED Flood Units. Complete radiometer for LED flood and conveyor systems (without lightguide adaptors). Includes storage/carrying case.

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Part number	Description
DYM39554	Flood to spot adaptor kit Includes three lightguide adaptors (3, 5 & 8mm) and a lightguide simulator
DYM39556	Lightguide adaptor 3mm Fits 3mm lightguides (5mm OD)
DYM39557	Lightguide adaptor 5mm Fits 5mm lightguides (7mm OD)
DYM39558	Lightguide adaptor 8mm Fits 8mm lightguides (10mm OD)
DYM38408	Lightguide simulator 5mm lightguide simulator with standard 'D' connector, suitable for DYNAMAX BlueWave lamps and others

Let’s start by talking about your application

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842842



orders@intertronics.co.uk

- Name*
- Company*
- Phone*
- Email*
- Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

-
- Tell us about your application

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Supplied by:

intertronics

INTERTRONICS

12a Station Field Industrial Estate, Banbury Road, Kidlington

Oxfordshire England OX5 1JD

t 01865 842842 e info@intertronics.co.uk

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