

Dymax ACCU-CAL™ 160 UV Radiometer UV Intensity Meter



Description

Consistent UV curing requires periodic monitoring of UV intensity or dose. The Dymax **ACCU-CAL 160** radiometer greatly simplifies both validating and monitoring a light-curing process for both UV curing flood lamps and UV curing conveyor systems. This UV Intensity Meter is available in both UV and LED versions and can measure emitted light up to 10 W/cm^2 .

It can be used to determine intensity (measured in mW/cm^2) or total energy as derived from intensity and exposure time (measured in mJ/cm^2). The unit is simple to operate and can be controlled manually via four buttons on the faceplate or by a USB remote interface. Measurement results are displayed on the integrated LCD display or transmitted by the USB remote interface to a computer.

For intensity measurement of UV curing spot lamps, please see the [Accu-Cal 50 radiometer](#).

Features & Benefits

- Simple to operate
- Compact, hand-held, battery operated instrument
- Useful for both UV curing flood lamps and UV curing conveyor systems
- Set screw locks lightguide in place for accuracy and repeatability
- PTB and NIST traceable
- Provides a quantifiable measurement to validate and maintain a light curing process
- Measures transmission rates through substrates to assure an effective curing process

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Specifications

Spectral sensitivity	315nm to 400nm (UVA model); 355nm to 455nm (LED model)
Intensity range	1.0mW/cm ² to 10W/cm ²
Resolution	Intensity: 1mW/cm ² Dose: 1mJ/cm ²
Calibration period	12 months
Operating temperatures	0-75°C internal temperature; tolerates high external temperatures for short periods (audible alarm indicates when temperature has exceeded tolerance)
Measurement modes	Peak intensity (mW/cm ²) Dose (mJ/cm ²)
Light sources	Dependent on model; UV or LED light-curing flood lamps and conveyor systems

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Power supply	Lithium polymer battery, 800 mAh, charged via USB interface (Mini-B), 5 VDC, 500 mA
Battery life	10 hours (backlight on, no operation) or 6 hours (backlight on, full operation)
Carrying case dimensions (W x H x D)	274 x 89 x 197mm

Ordering Information

Part number	Description
DYM41590	ACCU-CAL 160 Radiometer – UVA
DYM41585	ACCU-CAL 160 Radiometer – LED

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