

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

Dymax ACCU-CAL™ 160 UV Radiometer UV Intensity Meter



- Simple to operate
- Compact, hand-held, battery operated instrument
- Useful for both UV curing flood lamps and UV curing conveyor systems
- Versions available for measurement of UVA light intensity (broad spectrum lamps) and LED light intensity
- 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

Specifications

Specification	
Spectral sensitivity	315 nm to 400 nm (UVA model); 355 nm to 455 nm (LED model)
Intensity range	1.0 mW/cm ² to 10 W/cm ²
Resolution	Intensity: 1 mW/cm ² Dose: 1 mJ/cm ²

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Specification	
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
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 197 mm

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Ordering Information

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

Next Steps

Our technical sales team are on hand to discuss your application requirements. [Click here](#) to get in touch.

Find out more information on [how to purchase](#).

Supplied by:

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