

# SOLARMETER™

## MODEL 6.2

UVB Meter • 0-1999  $\mu\text{W}/\text{cm}^2$

*Handheld Digital UVB Radiometer  
with Integral Sensor*



### APPLICATIONS

- Monitoring Reptile Lamp Intensity and Aging (Peak sensitivity is 295nm, the point required to induce Vitamin D3 synthesis.)
- Monitoring UV Lamp Intensity & Aging
- Testing Acrylic Shield Transmission
- Testing Eyewear UV Block Capabilities
- Measuring Outdoor Shady Area UVB
- Testing Window Film / Tint Transmission
- Choose Sensitive Model 6.2 For Indoor / Low Intensity Applications
- Choose Standard Model 6.0 For Outdoor / High Intensity Applications



ENVIRONMENT



METROLOGY



OUTDOOR  
ACTIVITIES

### FEATURES AND BENEFITS

- Compact, Handheld, and Durable
- Simple Single-Button Operation
- NIST Traceable Accuracy
- LCD Display
- Made In USA

### SENSOR

Silicon Carbide (SiC) photodiode packaged in a hermetically sealed UV glass window cap. Interference filter blocks most UVA from response as shown on Spectral Sensitivity Graph.

### METER OPERATION

To operate your Solarmeter, aim the sensor window located on the top panel of the meter directly at a UV source. Press and hold the push-button switch on the face of the meter. For best results take note of the distance the reading was taken from the UV source in order to ensure repeatable results.

Battery operation voltage is viable from 9V down to 6.5V. Below 6.5V, the numbers on the LCD display will begin to dim, indicating the need for battery replacement. Under typical service load, a standard 9V battery will last approximately 2 years.

### PROPER USAGE OF SOLARMETER™ ULTRAVIOLET RADIOMETER

- Wear eye protection when checking UV lamps (Glasses that provide wrap around protection are ideal).
- Allow lamps to warm up prior to taking readings (at least 15 minutes).

### LAMP AGING

- When checking lamp aging, make sure to use the same location and distance to ensure accurate readings.
- Lamps should be replaced when output drops to about 50% of their original (new) readings.

### GENERAL

- Do not subject the meter to extremes in temperature, humidity, shock or dust. If accidentally exposed to extreme humidity or damp conditions, abnormally high readings may occur. Allowing the meter to dry out naturally or placing it in a bag with silica gel will restore normal function
- Use a very soft cloth to clean the instrument. Keep sensor free of oil, dirt, etc.

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ISO 9001  
2015



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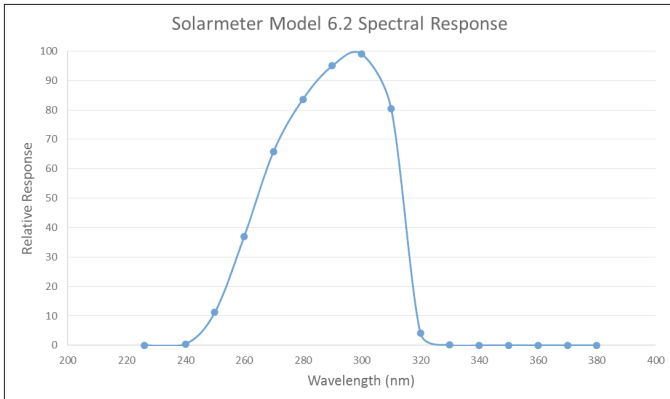


Fig. 1. Model 6.2 Spectral Response

## SPECIFICATIONS

MODEL	6.2
IRRADIATION RANGE	0-1999 $\mu\text{W}/\text{cm}^2$ UVB
RESPONSE	280-322 nm UVB
RESOLUTION	1 $\mu\text{W}/\text{cm}^2$
CONVERSION RATE	3.0 Readings / Sec
DISPLAY	3.5 Digit LCD
DIGIT SIZE	0.4" / 10.2 mm
OPERATIONAL TEMPERATURE	32°F to 100°F / 0°C to 37.8°C
OPERATIONAL HUMIDITY	5% to 80% RH
ACCURACY	±10% Ref. NIST
METER DIMENSIONS	4.2L x 2.4W x 0.9D in / 106.7L x 61W x 22.9D mm
WEIGHT	4.5 oz / 128g Including Battery
POWER SOURCE	9-Volt DC Battery
LENS	UV Glass
DIFFUSER	Teflon
AGENCY APPROVAL	CE Mark

REV A | MODEL 6.2 | Apr 2020  
 Specifications subject to change without notice.

**SOLAR**METER™ by Solar Light Company Inc. is the industry standard for UV and visible light radiometers that measure both indoor and outdoor light sources. Our NIST Traceable meters are used to monitor lamp irradiance and aging for UV sterilization, reptile husbandry, indoor tanning, red/blue light phototherapy, UV curing and UV Index.