

# SOLARMETER™

## MODEL 7.0

UV Erythemally Effective (Eeff) Meter • 0-199.9 MED/hr

*Handheld Digital UV Radiometer  
with Integral Sensor*



### SENSOR

Silicon Diode (SiC) Photodiode in hermetically sealed UV glass window cap. Interference filter blocks UV above erythema response as shown on Spectral Sensitivity Graph.

### APPLICATIONS

- Monitoring Instantaneous UV in Med/hr
- Monitoring UV Lamp Intensity and Aging
- Measuring Solar Intensity in MED/hr
- Comparison Of Sources in MED/hr
- Tracking Of UV In MED/hr Over Time



PUBLIC HEALTH



METROLOGY



ENVIRONMENT



OUTDOOR  
ACTIVITIES

### FEATURES AND BENEFITS

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

### 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 5 min).
- To take the overall reading at the center of the tanning bed, place meter pointing up with canopy closed.
- To take readings at the body position, hold the meter about 25cm above the bench with canopy closed.
- To take individual lamp readings, hold the meter against the acrylic canopy open.

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SolarMeter.com

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ISO 9001  
2015



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## PROPER USAGE (CONTINUED)

- Time (in minutes) to 4 MEDs =  $240 / (\text{meter reading in MED/hr})$ .
- Do not subject the meter to extremes in temperature, humidity, shock or dust.
- Use a dry, soft cloth to clean the instrument. Keep sensor free of oil, dirt, etc.

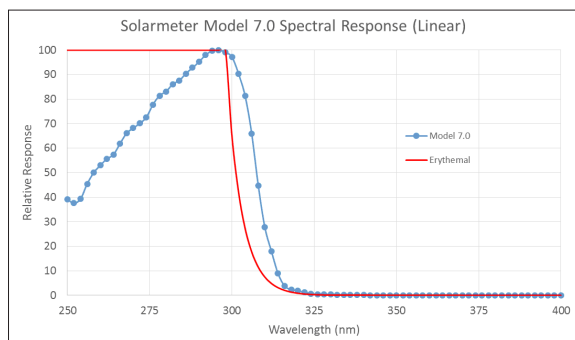


Fig. 1. Model 7.0 Spectral Response (Linear)

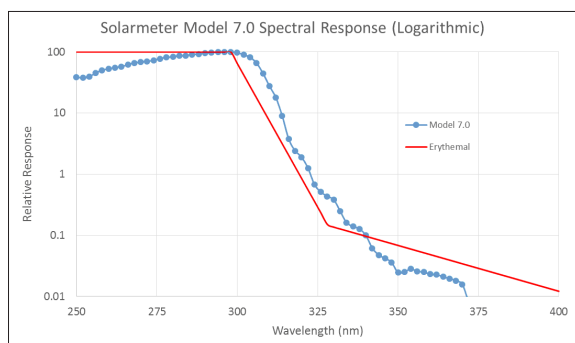


Fig. 2. Model 7.0 Spectral Response (Logarithmic)

## SPECIFICATIONS

MODEL	7.0
IRRADIATION RANGE	0-199.9 MED/hr
RESPONSE	280-400 nm Diffey Erythral Action Spectrum
RESOLUTION	0.01 W/m <sup>2</sup>
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
DETECTOR	SIC Photodiode w/IF
AGENCY APPROVAL	CE Mark

REV A | MODEL 7.0 | Jan 2021  
Specifications subject to change without notice.

**SOLARMETER™** 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.