



MODEL 9.6

Visible Red Light Meter • 0-199.9 mW/cm²

*Handheld Digital Red Light Radiometer
with Integral Sensor*



APPLICATIONS

- Monitoring Red Fluorescent Lamp Intensity and Aging
- Monitoring Red Light / LED Intensity and Aging
- Monitoring Red HID Lamp Intensity and Aging
- Monitoring Collagen Stimulation Lamp Intensity and Aging
- Measuring Wound Healing Lamp Intensity and Aging
- Measuring Photosynthetic Action Spectrum Red Band
- Measuring Outdoor Red Light



LED / LIGHTING



PUBLIC HEALTH



METROLOGY



ENVIRONMENT



HORTICULTURE

FEATURES AND BENEFITS

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

SENSOR

GaAsP Photodiode packaged in hermetically sealed glass window cap. Filter used to narrow bandwidth as shown on Spectral Response Graph.

METER OPERATION

To operate your Solarmeter, aim the sensor window located on the top panel of the meter directly at a 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 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™ VISIBLE RED LIGHT RADIOMETER

- Wear tinted eye protection when checking intense light sources.
- Allow lights to warm-up prior to taking readings (at least 5 min).
- For individual light intensity, hold meter close to LED or lamp.
- For effective light intensity, hold meter at working distance from the light source.
- When checking aging of lights, keep measuring distance and location constant.
- Lights should be replaced when output drops to about 70% of their original (new) readings.

100 East Glenside Avenue
Glenside, PA 19038 USA

SolarMeter.com
1.215.517.8700



ISO 9001
2015



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PROPER USAGE (CONTINUED)

- If unsure of what new values were, replace an adjacent light with a new identical one and compare the two.
- Do not subject the meter to extremes in temperature, humidity, shock or dust.
- Use a dry, soft cloth to clean the instrument. Keep the sensor free of oil, dirt, etc.

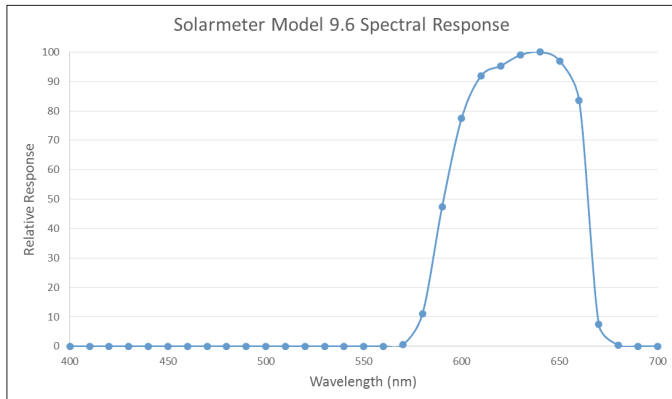


Fig. 1. Model 9.6 Spectral Response

SPECIFICATIONS

MODEL	9.6
IRRADIATION RANGE	0-199.9 mW/cm ²
PEAK RESPONSE	97% at 633 nm
RESPONSE	577-661 nm Red Light
RESOLUTION	0.1 mW/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 90% 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	GaAsP Photodiode with Filter
AGENCY APPROVAL	CE Mark

REV B | MODEL 9.6 | Jun 2021
Specifications subject to change without notice.

SOLARMETER™ by Solar Light Company, LLC 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.

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