

Solar Light's versatile NIST-Traceable [Model PMA2200 Radiometer / Photometer](#) accepts over 85 different PMA21xx-Series sensors measuring UV, Visible and IR wavelengths. Solar Light's patented Intelligent Detector Technology allows users to interchange sensors without losing the functionality of a single purpose meter, while the Automatic Sensor Recognition feature eliminates the need to match meters and sensors. Any PMA Sensor can interface with any PMA Meter thanks to a memory chip, which makes it unnecessary to permanently load sensor information into the meter. This is especially useful in labs that have more than one meter and several sensors! Instant values (such as power) can be time-integrated to also show energy, and the unit has a programmable alarm for time integral or maximum value.



Applications

- Laboratory and Industrial Radiometry
- UV Curing, Printing, and Photolithography
- Skin and SPF Testing
- Clinical Studies
- Phototherapy
- Environmental Monitoring
- Material Testing
- UV-A Transmission Measurements

Features and Benefits

- High Sensitivity
- Dynamic Range (6.5 Digit Display)
- User Selectable Units
- Dose Integration Capability
- 2-Line LCD Display with Anti-Glare Screen
- Displays Min and Max Readings
- Programmable I/O
- Automatic sensor recognition
- NIST traceable calibration
- Radiometric units
- Made in USA



SPECIFICATIONS

Detector Inputs	1 Detector Input with Up to 4 Analog Signals
Input Ranges	±4V, single range (<i>autoranging not necessary</i>)
Resolution	13µV on 4V Range
Dynamic Range	2.6 x10 ⁶ (6.5 digits)
Accuracy	Within 0.5% FS
Non-Linearity	0.003% Integral Non-linearity
Operating Environment	32 to 120°F (0 to +50°C)
Temperature Coefficient	Max 50ppm/°C
Power Source	4 x AA NiCd or Alkaline Batteries, 9-12V AC or DC Charger
Sampling Rate	3 per second
Screen Refresh Rate	10 per second
Battery Life	Up to 40 Hours Between Charges
External Power	9-12V AC or DC adapter. 100mA min
Power Consumption	Approximately 110mW
Program Control	12-Button Keypad
Size WxDxH	4" x 1.75" x 7.5" (10 x 4.3 x 19.3 cm)
LCD Size	2.5" x 0.5" (6.4 x 1.3 cm) Program control 9-button keypad x4.5 cm
Weight	18 oz. (510 grams)

ORDERING INFORMATION

PMA2200	Single input radiometer package features the PMA2200 Radiometer, a power supply (not a battery charger), and a hard cover carrying case.
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REFERENCES

¹ The biological effects of UV-A radiation - Edited by F. Urbach and R.W. Gange, Praeger Publishers, New York, 1986

² Nichodemus F., "Self study manual on optical radiation measurements", NBS Technical Note 910-1 (1976).

Part Number: 210051

Revision Level: B

Specifications subject to change without notice.

US Patent 5,790,432



PMA2200 Rugged Carrying Case with room for 2 sensors

Since 1967, Solar Light Company, Inc. has been recognized worldwide as America's premier manufacturer of Precision Solar Simulators and Light Sources, Light Measurement Instrumentation, UV Transmittance Analyzers, Meteorological Instrumentation, and Digital and Analog Sensors. Our advanced line of UV, visible, and IR radiometers and light meters measure laboratory, industrial, environmental, and health related light levels with NIST traceable accuracy. Column ozone, aerosol, and water vapor thickness measurements, in addition to long-term global ultraviolet radiation studies all over the world are performed using our atmospheric line of instrumentation. Solar Light also provides NIST traceable spectroradiometric analyses, calibrations for light meters and light sources, accelerated ultraviolet radiation degradation testing of materials, and OEM instrumentation and monitors. Please visit our website for more details, specifications, and pictures!



State Of The Art Solar Simulators available in 150-1000+ watt UV or AM variations for a variety of applications including PV Cell Testing, Materials Testing, Pre-Irradiation for In Vitro Broad Spectrum Sunscreen Testing, SPF Testing, and much more.



Multi-Functional Professional Grade Radiometers available with and without data logging, and compatible with over 130 Solar Light PMA-Series Sensors to measure UV, Visible and IR wavelengths. Specialty Meters also available to measure UV Radiation, SUV/UVA, Scotopic/Photopic Spectra, and much more.



Advanced NIST-Traceable Sensors for accurate measurement of UVA, UVB, UVA+B, UVC, Visible, IR, Photostability, Temperature, and Custom Wavelength – well over 130 models in both digital and analog configurations, all compatible with our Radiometers.



Ultraviolet Transmittance Analyzers available as complete integrated turnkey systems to meet the latest ISO24443 requirements.



Handheld Ozonometers and Sunphotometers for fast and dependable Column Ozone, Aerosol, and Water Vapor Thickness measurements, in addition to long-term global ultraviolet radiation studies.