

Solar Light的多功能 NIST 可追溯**Model PMA2100 辐射计**专为科学专业人士设计，提供无与伦比的准确性和灵活的数据管理。该主机可连接超过 85 种不同的 PMA21xx 系列传感器，用于测量紫外线、可见光和红外线波长。Solar Light的专利智能探测器技术允许用户互换传感器而不会失去单一用途仪表的功能，而自动传感器识别功能则无需匹配仪表和传感器。得益于内存芯片，任何 PMA 传感器都可以与任何 PMA 仪表连接，这使得无需将传感器信息永久加载到仪表中。这在拥有超过一米和多个传感器的实验室中尤其有用！PMA2100 可以存储 1024 条具有完全可追溯性的记录，每条记录包括时间、日期和传感器校准状态。数据记录可以以 1 分钟到 2 小时的间隔自动或手动触发，并存储在非易失性存储器中。数据通过测量仪的输出端口通过随附的 USB 电缆下载到任何计算机。



应用范围

- 实验室和工业辐射测量
- UV 固化、印刷和光刻
- 皮肤防晒材料和 SPF 测试
- 临床研究
- 光损害研究
- 环境监测
- 材料测试
- UV-A 透射测量

特点 & 优势

- 高灵敏度
- 动态范围 2×10^5
- 出色的长期稳定性
- 手动或自动数据记录
- 自动识别传感器
- NIST 可追溯校准
- 辐射单位
- USA 美国制造



技术规格

探测器输入	2个探测器输入；最多每个输入2个模拟信号
输入范围	±0.4V, ±4V, 自动量程
解析度	15μV, 在 0.4V范围时
动态范围	>2x10 ⁵
精度	0.5% FS 满量程
非线性	最大 0.02% FS, 在每个范围内
操作环境	32 ~120°F (0 ~ +50°C)
温度系数	最大 50ppm/°C
电源	4 x AA 镍镉或碱性电池, 9-12V AC 或DC 直流
电池寿命	高达 40 小时
接口	RS-232 串行接口和 Opto-Isolated 数字 I/O
程序控制	12-键 键盘
尺寸 WxDxH	10 x 4.3 x 19.2 cm
LCD 屏幕	5.7 x 3 cm
重量	510 g

订购信息

PMA2100	双输入数据记录辐射计套件，具有 PMA 数据记录管理器软件（以分钟为单位的采样率）、电池充电器、USB 电缆和硬壳手提箱。
PMA2100B	无数据记录、外壳或附件的基本型号。
PMA2100C	双输入数据记录辐射计包，具有 PMA 数据记录管理器软件（以秒为单位的采样率）、电池充电器、USB 电缆和硬壳手提箱。

参考文献

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).



PMA2100 Rugged Carrying Case with room for 2 sensors



Part Number: 210050

Revision Level: D

Specifications subject to change without notice.

US Patent 5,790,432

Since 1967, Solar Light Company, LLC 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.