

PMA2113 UVA SENSOR WITH LIQUID LIGHT GUIDE ADAPTER

SENSORS
SPF CLINICAL AND
LABORATORY RESEARCH

Delivery on all products is
Stock to 2 weeks.

Every product is
calibrated to NIST
traceable standards
before shipment.



The PMA2113 UVA Sensor with Liquid Light Guide Adapter provides fast and accurate irradiance measurement in the UVA region from 320 to 400nm. Special mounting hardware allows direct coupling with 8mm or 10mm Liquid Light Guides (LLG's). Its spectral response covers the 320 to 400nm range (Fig. 1).

The measured irradiance is displayed in mW/cm² or W/m². Consequently, the integrated dose is shown in Joules/cm² or kJoules/m². The PMA2113 has a resolution of 0.001 mW/cm² and a full scale of 200mW/cm² allowing measurement of very weak and very strong signals with the same detector.

Uses

In conjunction with the Solar Simulator and XPS200 Xenon Lamp Power Supply the PMA2100 with the PMA2103 detector can operate as a smart dose controller/monitor substantially enhancing the functionality of the Solar Simulator.

Alternate Views



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

High sensitivity
Dynamic range 2*10⁵

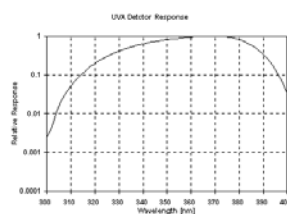
Excellent long term stability
Cosine corrected

NIST traceable calibration
Radiometric Units

Specifications

Spectral response
320-400nm, Figure 1
Angular response
5% for angles <60°
Range 200 [mw/cm²] or 2,000 [W/m²]

Display resolution
0.001 [mw/cm²], 0.01[W/m²]

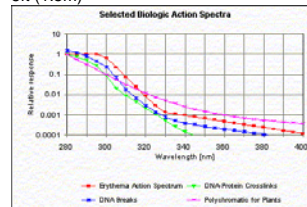


Operating environment

32 to 120 °F (0 to +50 °C) no precipitation
Temperature coefficient

<0.1%/°C
Cable

5ft (1.5m)



Diameter

1.6" (40.6 mm)
Height

1.8" (45.8 mm)
Weight

7.1 oz. (200 grams)

Common Sources of UVA

Low pressure florescent lamps
high pressure mercury and metal halide lamps
high pressure xenon lamps
sunlight