



Spectrafy
solar spectral sensors

SolarSIM-GUV

the single solution for solar UV measurement

The SolarSIM-GUV brings our unique SolarSIM technology to bear on the challenge of solar UV measurement. The result is a UV sensor like no other.

The SolarSIM-GUV uses filtered photodiodes coupled with our powerful SolarSIM software to accurately resolve the complete solar UV spectrum. Our software then integrates these spectra over varying ranges to obtain the full suite of UV parameters.

One sensor

With the SolarSIM-GUV, measure UV-A, UV-B, UV-E and UV-T all with one single, compact, reliable sensor. You can even add PAR and GHI.

Precise

Because the SolarSIM-GUV resolves UV parameters directly from spectral integrals, imperfect transmission profiles and spectral errors are eliminated.

Reliable

The SolarSIM-GUV is built with the highest quality of optical components, ensuring highly stable and accurate performance for years.





SolarSIM-UV: Specifications

Irradiance

Spectral ranges:

UV-A

315 - 400 nm

UV-B

280 - 315 nm

UV-E

IEC 17166

UV-Total

280 - 400 nm

PAR

400 - 700 nm

GHI

280 - 4000 nm

Spectral Response

n/a – measurements integrated from spectra

Response time (95%)

< 0.5s

Cosine response

±3% at 80° zenith

Non-stability (change/year)

0.5 %

Non-linearity

0.5 %

Temperature response

0 % (in-situ temperature correction)

Calibration uncertainty

1.1%

Exposure time

< 1 ms

Max. acquisition rate

2 s

General

Weight

1.1 kg

Dimensions

122 x 122 x 90 mm

Power supply and use

12 VDC, <1W

Communication

2 wire RS-485, Direct to PC, serial over ethernet or datalogger

Operating Temperature

-30 to 60 °C

Humidity Range

0 to 100% RH

