



Spectrafy
solar spectral sensors

SolarSIM-UV

the single solution for solar UV measurement

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

Reliable

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





SolarSIM-UV: Specifications

Irradiance

Spectral ranges:

UV-Total

UV-A

UV-B

UV-E

PAR

GHI

Spectral response

Response time (95%)

Cosine response

Non-stability (change/year)

Non-linearity

Temperature response

Calibration uncertainty

Exposure time

Max. acquisition rate

280 – 400 nm

315 – 400 nm

280 – 315 nm

IEC 17166

400 – 700 nm

280 – 4000 nm

n/a – measurements integrated from spectra

< 0.5 s

±3% at 80° zenith

< 0.5 %

< 0.5 %

0% (in-situ temperature correction)

1.1 %

< 1 ms

2 s

General

Weight

Dimensions

Power supply and use

Communication

Operating Temperature

Humidity Range

1.1 kg

132 x 132 x 108 mm

12 VDC, <1W

RS-485 ASCII, Direct to PC, serial over ethernet, datalogger

-30 to +65 °C

0 to 100% RH

