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.

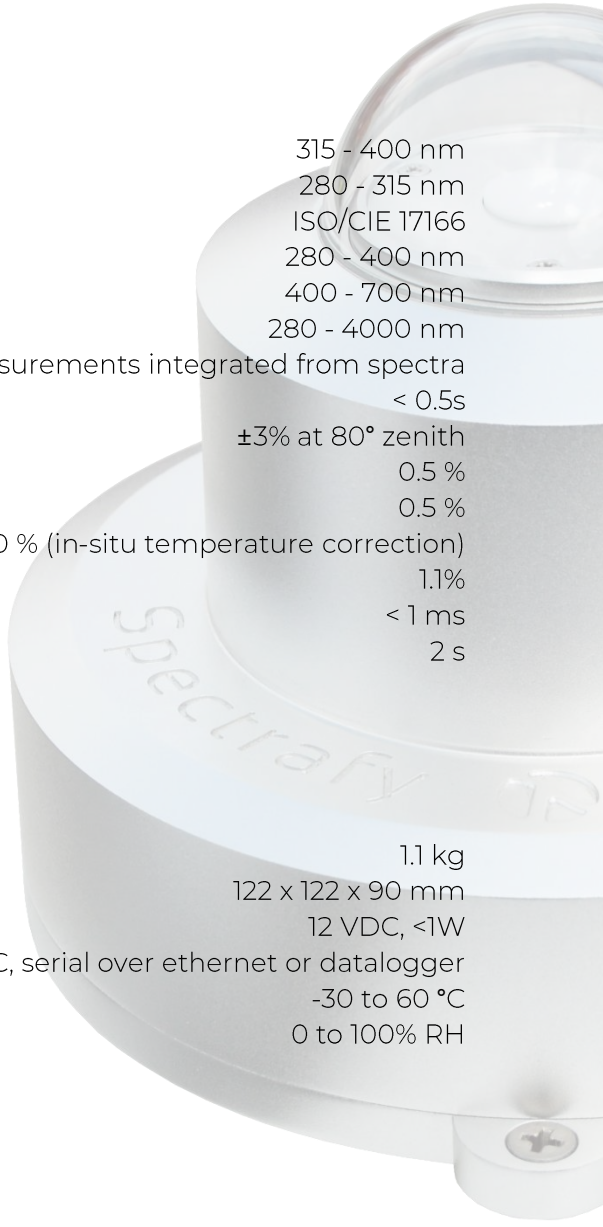
4 Florence Street, Suite 204, Ottawa, Canada K2P 0W7 | 1-613-237-2020 | info@spectrafy.com | www.spectrafy.com

Spectrafy
solar spectral sensors

SolarSIM-UV: Specifications

Irradiance

Spectral ranges:	
UV-A	315 - 400 nm
UV-B	280 - 315 nm
UV-E	ISO/CIE 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

4 Florence Street, Suite 204, Ottawa, Canada K2P 0W7 | 1-613-237-2020 | info@spectrafy.com | www.spectrafy.com