

Spectroradiometer | SS-110

Apogee Instruments is proud to announce our low-cost, research-grade spectroradiometer designed for long-term outdoor and indoor measurements.



Flexible Interface

Connects directly to a PC via USB or to dataloggers via ModBus RTU over RS-232.

Extra-rugged Design

Equally suited for long term measurements on outdoor installations or for spot measurements in the lab.

Versatile Function

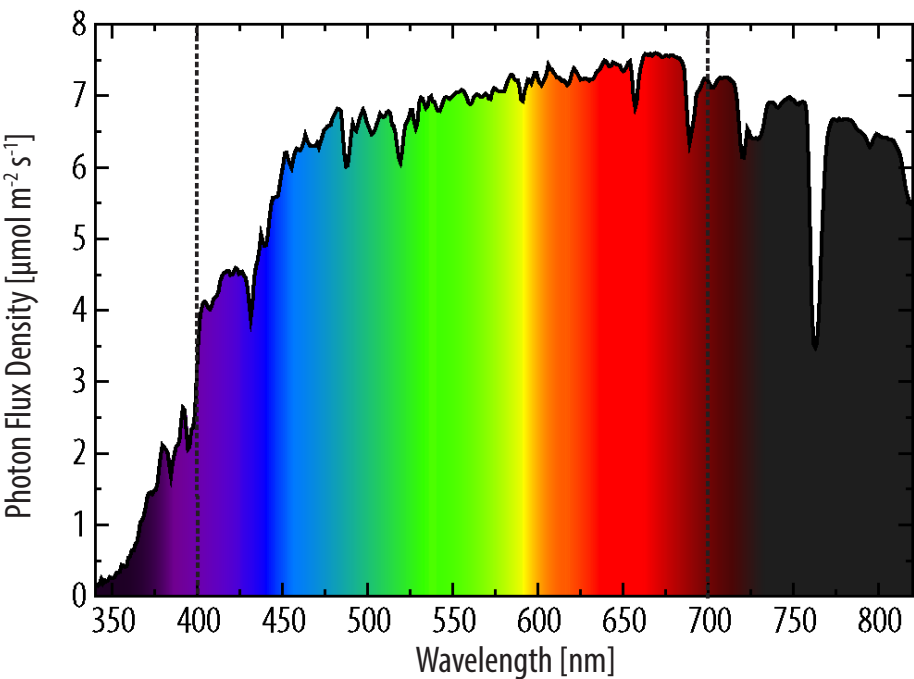
Measures irradiance, reflectance, and/or transmission to quantify incoming radiation spectra or index ratios.



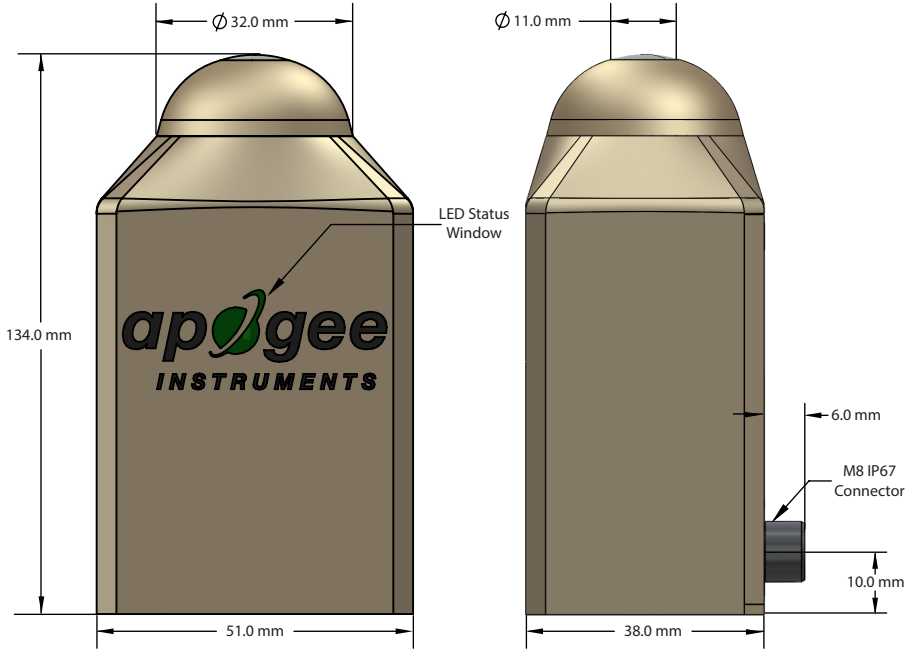
www.apogeeinstruments.com | 435.792.4700

apogee
INSTRUMENTS
Logan, UT

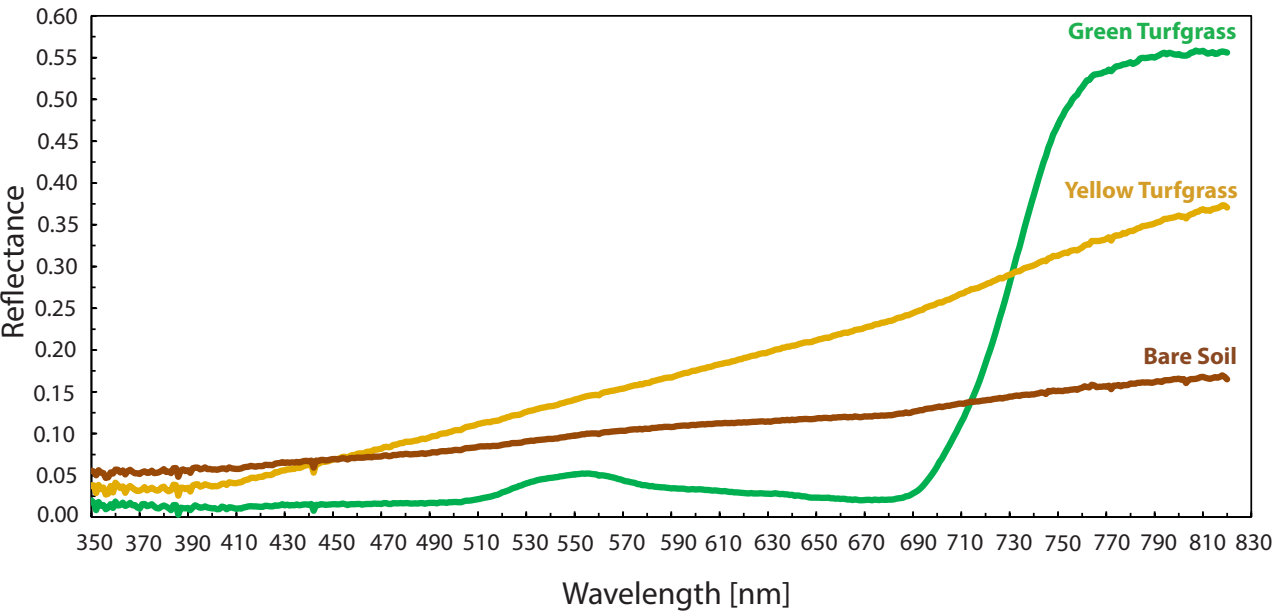
Solar Spectrum-Logan, UT



Dimensions



Reflectance Spectra



SS-110

Wavelength Range	340 to 820 nm
Wavelength Resolution	2.0 nm (FWHM)
Irradiance Calibration Uncertainty	$\pm 5 \%$
Signal to Noise Ratio	1500 (at maximum signal)
Measurement Sensitivity	greater than 15 % of full-scale signal (wavelengths greater than 385 nm)
Measurement Repeatability	less than 1.0 % (wavelengths greater than 400 nm)
Directional (Cosine) Response	$\pm 5 \%$ at 60 zenith angle
Fields of View	180° (upward-facing), 25° or 150° (downward-facing)
Operating Environment	-20 to 70 C, 0 to 100 % RH
Temperature Response	-0.09 \pm 0.10 % per C
Current Drain	115 mA (fastest scan rate)
Communication Protocol	Modbus RTU over RS-232 (pigtail and USB)
Dimensions	90.7 mm (height) x 48.3 mm (width) x 38.1 (depth)
Mass	300 g
Warranty	4 years against defects in materials and workmanship