



# Skye Instruments NDVI & PRI Sensors

## Why Choose Skye Sensors?

When considering any purchase, it is good practice to check the specification and reputation of comparable models from different manufacturers, to ensure the purchase will meet the user's application and budget. For scientific instrumentation that will be used long term in all field conditions, this is especially important for data integrity and project recognition.

Skye Instruments Multichannel Radiometers and Spectral Albedometers, which include sensors configured for NDVI and PRI measurements amongst many other Indices, boast the following features:

- Skye Instruments have been designing, manufacturing and calibrating Light and Radiation sensors since 1983.
- These sensors have been quoted in published scientific literature since 1985, please request a list.
- Skye have an excellent reputation for high quality, robust and accurate instrumentation, plus a reliable, helpful and prompt technical back up service.
- Skye NDVI and PRI sensors are well known and widely used in Precision Agriculture, Remote Sensing, Climate Change, Carbon Balance and Satellite Ground Truthing applications.
- They have been used by Fluxnet, Specnet and Carbo Europe communities, since at least 2004.
- Calibration is, and has always been, fully traceable to National Standards via the National Physical Laboratory, the UK's National Measurement Institute.
- Sensors can be calibrated with up to 4 wavebands per sensor, choosing wavelengths between 280nm and 2400 nm. Calibration can be in Irradiance or Radiance units.
- Wavebands can be chosen from 10nm to several 100 nm wide. Sensors can be matched to most Earth Observational Satellite bands e.g. MODIS, LANDSAT etc.
- Each waveband channel in every sensor is individually calibrated using its exact spectral response and output, and is supplied with a Calibration Certificate and response curve.
- The user can choose the units of calibration, e.g. for irradiance either  $W.m^{-2}$  or  $\mu mol.m^{-2}.s^{-1}$ . A conversion factor between units can also be supplied at a later date if needed.
- Sensor pairs which make up a Spectral Albedometer are manufactured using carefully selected sets of waveband filters to ensure the closest spectral match between sensors. The matched spectral responses are provided with each Calibration Certificate.
- Complete systems can be supplied with Skye meters and dataloggers which have been designed specifically to measure the primary photodiode current outputs from the NDVI and PRI sensors. Amplified or mV outputs are also available to suit most dataloggers.
- The Skye DataHog2 logger will record from up to 16 wavebands and can auto upload data to a website.
- The Skye SpectroSense2+.GPS autoranging, logging meter is ideal for field mapping of NDVI, PRI, EVI etc.
- The sensors underwent a design change in 2013 following a survey and feedback from users. Skye are constantly looking to improve and develop their designs and welcome all feedback, positive and negative.

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