



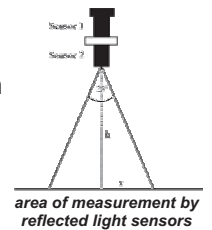
NDVI

RVI

Sensors



- ☀️ Wavelengths are available for NDVI, RVI, etc to match Earth Observation satellites such as MODIS, SPOT, AVHRR, Landsat, etc.
- ☀️ Wavelengths can be chosen for studying Biomass Cover, Vegetation Indices & Red Edge Inflection Point for example
- ☀️ Use our expertise and knowledge to select the correct filtering for your application
- ☀️ A pair of identical 2-channel sensors are mounted to measure incident & reflected light simultaneously for accurate readings in all daylight conditions
- ☀️ Sensors are supplied with detailed calibration certificates, showing that calibration is fully traceable to National Standards
- ☀️ Sensors are completely waterproof & designed for 'life in the field'



Logger

Logger Choices

- ☀️ DataHog2, SpectroSense2+ & SpectroSense2.GPS meters/loggers are designed specially for light measurements and in particular for the low signal measured from narrow-band filtering. We are specialists in designing light measurement systems and we have over 20 years experience in building specialist systems
- ☀️ SpectroSense2 meters are portable. They include an NDVI display & mapping function

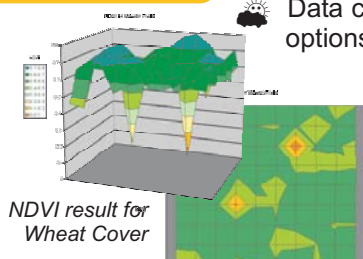


Logging Meter

The System



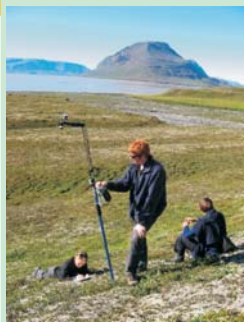
- ☀️ Sensors can be mounted on the top of an adjustable pole for variable ground area measurements
- ☀️ Sensors can be mounted on long horizontal poles above a forest canopy or on tractor booms
- ☀️ Sensors & logger can be added to Flux Towers or Eddy Covariance Towers
- ☀️ Data can be used with any graphing package, especially those with complex 3D options



MobiLas CANOPY SENSOR - A.Thomsen



Applications



BSES expedition to Greenland. NDVI system used for the study of vegetation characteristics for low arctic vegetation



Skye 4-channel sensors are mounted on this microlite aircraft for studying aerosol & radiation interaction
Courtesy: Dr Wolfgang Junkermann



Studies of vegetation productivity & stress



Light-use efficiency



Red Edge Inflection Point



Monitoring the effects of climate change



Mapping land cover & land use



CO₂ Flux Towers



Vegetation Indices



Ground Truth Studies



Biomass cover



Skye 2-channel sensors on an Eddy-Covariance Tower.
Courtesy: Dr Caroline Nichol



4-channel sensors being used as part of a GIS based analysis of ground water quality in Senegal.
Courtesy: Dr Rasmus Fensholt



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Overview of Skye Loggers

| | SpectroSense2+ | SpectroSense2.GPS | DataHog2 |
|---|----------------|-------------------|----------|
| Plot location log | X | ✓ | X |
| Sensor inputs | 8 | 8 | 16 |
| Incident / reflected measurements | ✓ | ✓ | ✓ |
| Designed for low reflected light levels | ✓ | ✓ | ✓ |
| Any daylight conditions | ✓ | ✓ | ✓ |
| LCD display | ✓ | ✓ | X |
| NDVI display | ✓ | ✓ | X |
| Logging function | ✓ | ✓ | ✓ |
| Waterproof rating | IP54 | IP54 | IP65 |
| Suitable for long term logging | X | X | ✓ |
| Portable measurements | ✓ | ✓ | X |
| GPS mapping | X | ✓ | X |
| Traceable system calibration | ✓ | ✓ | ✓ |
| Other wavelengths available | ✓ | ✓ | ✓ |
| Sensor Library | ✓ | ✓ | X |
| 2 & 4 Channel ratios displayed | ✓ | ✓ | X |