



VIS,NIR Portable Hyperspectral Field Spectroradiometer

EOC-SI-9100-25

Feature:

Broad spectral range: 350-2500nm

High sensitivity, detector quantum efficiency reach up to 60%, NIR sensitivity is 40% higher than traditional PDA detector

Fast measurement speed, each sampling time < 100 ms;

Light weight and flexible optic fiber probe

Built in order sorting film or filter, high accuracy

Dynamic dark current correction, reduce noise

Easy to handle gun

Display probe inclined angles, laser indicator indicates probe direction, easy to adjust

Included TF card storage of measuring data, GPS accurate positioning

Built-in source power button, simplify operating processes

Dust and water proof host

Easy to carry dedicated case

Description:

EOC-SI-9100-25 is a new portable hyperspectral field spectroradiometer that employs spectral range between 350-2500nm, and it's applied to fields of remote sensing measurement, crop monitoring, research of forest and oceanography etc.

EOC-SI-9100-25 field spectroradiometer employs high performance, fast and accurate measurement, easy to operate and held etc. It's configured powerful software package, and applied to measurement of reflectance, radiometry, photometry and colorimetry.



Technical specification:

Spectral range: 350-2500nm;

Spectral resolution:

1.5 nm@700nm

8nm@1400/2100 nm;

Wavelength accuracy: 0.5 nm;

Wavelength repeatability: 0.1nm;

Scanning time: 100 ms;

Spectral sampling bandwidth: <2nm

Data output interval (Data resampling interval) : ≤ 0.42 nm;

Radiation calibration accuracy: <5%;

Dividing light scanning type: grating dividing light; Fix all optical components or stable moving;

Detector:

350-1100nm: ultra-low noise, TE-cooled, back-thinned 2048*64 CCD array,

1100-2500nm: 512 pixels InGaAs detect unit, class II, TE-cooled constant temperature;

Hardware spectroradiometer average: reach up to 31800 times

- NeDL:
 - VNIR $1.0 \times 10^{-9} \text{W/cm}^2/\text{nm}/\text{sr}@700\text{nm}$
 - SWIR $1.4 \times 10^{-9} \text{W/cm}^2/\text{nm}/\text{sr}@1400\text{nm}$
 - SWIR $2.2 \times 10^{-9} \text{W/cm}^2/\text{nm}/\text{sr}@2100\text{nm};$

 - Stray scattering light:
 - VNIR: 0.02%
 - SWIR: 0.01%;

 - Channels: 2151

 - Outline size: 50mm×400mm×400mm

 - Weight: 14.5 kg

 - Receiving data software, real-time, dynamic display spectral curves;

 - Offer measuring modes of transmission, reflectance etc;
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Standard accessories:

- 1、 Outdoor USB cable;
- 2、 Outdoor optic fiber jumper;
- 3、 Standard white board;
- 4、 Outdoor white board;
- 5、 Outdoor case
- 6、 Triangle stand;
- 7、 standard probe;
- 8、 dedicated software

Optional accessories:

- 1、 small FOV lens: 1°/3°/5°/8°/10° optional;
- 2、 Clip used for transmittance measurement;
- 3、 Reflection probe used for reflectance measurement;
- 4、 Battery(integrated in spectroradiometer) and charger used for reflection probe;

Handle gun

Standard probe includes SMA connector, 6-pins waterproof data interface, M12×0.5 threaded hole used for connecting optic fiber, data cables and focusing lens.



Standard probe:

Standard probe includes SMA connector, 6-pins waterproof data interface, M12×0.5 threaded hole used for connecting optic fiber, data cables and focusing lens.

**Feature:**

- Compact and light weight;
- Built-in inclined angle sensor;
- Built-in laser indicator used to indicate probe direction;
- Replaceable focusing transmittance lens, 25mm/16mm/12mm/8mm/6mm optional
- Dimension: 24mm×42mm×56mm

**Reflective probe**

Optional accessory, built-in tungsten halogen light source used for light compensation and reflective measurement. It consists of SMA connector, 6-pins waterproof data interface connecting optic fiber and data cables.



Feature:

- Compact and light weight;
- 12V chargeable power supply;
- Matched clip to measure transmittance;
- size: 54mm×54mm×56mm

Clip:

Optional accessory, and used together with reflective probe. SMA connector connecting optic fiber is included

**Feature:**

- Compact and light weight;
- Easy to operate;
- Stable structure

Outdoor white board



Feature:

- Cost effective;
- Excellent Lambert characteristic;
- Non-hydrophilic, easy to clean;
- diameter: 9cm