

STALWART

Handheld Field Spectroradiometer SHP-Series



SHP-Series

Description

Stalwart SHP-910/F is a new handheld field spectroradiometer 300-1100nm, and it's applied to fields of remote sensing measurement, crops monitor, research of forest and oceanography etc.
SHP-910F add a function of intuitive display spectrum area can increase measure accuracy.
It employs high performance, fast and accurate measurement, easy to operate and take to field etc. It's configured powerful software package, and applied to measurement of reflectance, radiometry, photometry and colorimetry.

Model	Description
SHP-910	Standard Handheld Field Spec
SHP-910F	plus a function of capture distance & area

Features

- High sensitivity, new detector quantum efficiency>60%, NIR sensitivity is 40% higher than traditional PDA detector
- Fast speed, sampling time< 10 ms per time
- Fiber probe has light weight & flexible for field usage
- High accuracy, built-in with the second order sorting filter
- Dynamic dark current correction, reduce noise
- Screen can display angles, direction and areas (SHP-910F)
- Water, Dust proof, damage resistant
- Special designed carrying case
- Touch screen with Android software, and applied for spectrometer software
- HD camera for taking spectrum area

Specification

Detector	
Type	Linear CMOS sensor
Detector	2048pixels
Optical Parameters	
Spectral Range	300-1100 nm
Wavelength Accuracy	± 0.5 nm
Spectral Resolution	1.4 nm@756nm
FOV	narrow FOV lens, 1°/8°/15°/25°optional
Indicate laser wavelength	650 nm
Indicate laser power	5 mW
SNR	>800
Spectral Sampling Interval	0.4nm
Hardware spectral average	Max. up to 100,000 times

Specification

Electrical parameters	
Operation system	Android 6.0
Camera	13-mega front camera
LCD Screen	5"HD 720*1080 capacitive screen
Integration Time	1 – 10 s/ auto optimization integration time
Data Export Port	TYPE-C /USB 2.0, bluebooth
Angle data	MC3430 gyroscope optical measure angle: 0°-180°
Power supply	Built-in Li battery 5200maH
Charging	USB 5V Charger
Battery life span	>4H
Working Current	<800mA
Storage Temp.	-20°C ~ +65°C
Operating Temp.	-10 ~ 45 °C
Working Humidity	< 90%RH
Physical Parameters	
IP level	IP65
Dimension	151×157×85mm
Weight	1.1Kg

Application

- Geographical Research, Mining exploration
- Remote Sensing Measure
- Agriculture, Crops Monitor
- Forestry & oceanography Research

Attachment

Standard Attachment	
1	USB Data wire
2	Field fiber patch cable
3	Exclusive PC software
4	Charging adaptor 5V/3A
5	Cosine lens
6	FOV 25°
7	Standard Board with box
8	Carry case

Attachment

Optional Attachment	
1	FOV lens, 1°/5°/8°/10°/15° Optional
2	Reflectance Probe+leave clip for Reflectance measurement
3	Halogen lamp /ATG1021 INT:12V
4	Measure holder+integration sphere for transmittance measurement
5	Cuvette holder for water quality absorbance measurement
6	Standard white board 99% Reflectance 10cm*10cm (Customized)
7	White Board 60% Reflectance 10cm*10cm (Customized)