SupNIR-1000 Series

Portable Near Infrared Analyzer

Suppir-1000 series portable near infrared analyzer is designed to be a portable analyzer for onsite rapid detection, wavelength range covers 600 to 1800nm, compact structural design , small size, built-in rechargeable battery, large capacity storage device and LCD module. By configuring different measuring attachment, the analyzer can implement rapid detection of no destruction of flake, pellet, pasty, powder and liquid samples in some composition of physical and chemical. It has been widely applied in fruit farming, food quality, scientific research, and other fields.



Product Features

- Stable and reliable portable solution.
- Rapid analysis, synchronously measure multiple indexes within 30
- High accuracy detection, close to the normal analysis accuracy of lab.
- Can implement rapid detection of no destruction on onsite samples.
- Abundant measurement accessories, can realize different sample analysis, convenient to change probes.
- Built-in standard substance, has automatic diagnosis and fault
- Built-in strong storage devices, achieve the analytical data and spectrogram storage.
- Built-in USB interface, Transfer data to the computer directly.
- Configure RIMP software with instrument, can implement upload and download of data, edit and output analytical report, realize network long distance control.
- Easy to operate, can be easily grasped by non technican .
- A variety of power supply methods, 19V DC and built-in lithium hattery
- Small volume, light weight, only 6 kilogram.



Abundant Measurement Accessories

Many kinds of measurement modes can be achieved by connecting the probes and accessories of different types.



1 the light source plane diffuse reflection probe is applicable to diffuse reflection measurement modes, can measure the flake, pellet, pasty, powder sample, such as no damage measurement in fruit, plastics, textiles, tobacco etc.

2 the optical fiber diffuse reflection probes is applicable to diffuse reflection and permeable reflection measurement mode, diffuse reflection is mainly applied in single pellet sample measurement, such as onsite no destruction measurement of fruit , meat ,etc; Permeable measurement is mainly applied in transparent liquid sample measurement, such as onsite measurement of edible oil, fuel etc

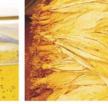




Applications









Fruits

- Cultivation guide
- Quality evaluation
- Fruits classification
- Maturity monitoring

Circulation Quality Measurement

- Meat quality measurement
- Edible oil measurement
- Feed measurement

Tobacco

- Tohacco nurchase
- Tobacco formula
- Tobacco processing Tobacco planting

Scientific Research

- Fiber detection
- Plastics recycle Soil fertility
- Medical substance identification

Performance Parameters

Accessories name	Light source plane diffuse reflection probe	Optical fiber permeable reflection probe	Cell rack
Wave length range	600nm or 750nm	600nm	600nm
Light spot diameter	20nm	2.5mm	1mm
Light length	/	2/5/10mm	1/2/5/10/50mm

Measurement Index

Sample types	Measurement index Sugar degree ,acidity ,hardness, insect pests	
Fruit		
Meat	Water, Unsaturated fat, Crude protein	
Edible oil	Unsaturated fatty acid, acid agent and Iodine number	
Tobacco	Nicotine, water, general sugar , restore sugar, general	
	chlorine, many phenol type, additive ,origin	
	identification, degree classification .	
Optical fiber	Each composition content of mix textiles, cotton fiber	
	contains restore sugar, fiber outer oil, fiber dye ability,	
	mercerized degrees of cotton fabric, wool Myelination	
	degrees, cotton fabric finishing agent, second acetic acid	
	cellulose vinegar number, carpet fabric type	
	identification.	
High molecular	Molecular, Density, dissolve index, etc stipulation,	
	Remnant monomer, Solvent, additive content, pellet	
	distribution , Mechanics property, recycle waste plastics	
	type identification .	
Soil	Water, Organic quality, general nitrogen content ,soil	
	classification.	
Medical substance	Crystal State , Pellet diameter, Circulation optical	
	property, density, identification of Chinese medical	
	substance counterfeits ,origin, quality degree	

Note: increase measurement types and index based on customer requirement

Instrument Parameter

Product type	SupNIR-1100	SupNIR-1520	
Wave length range	600-1100nm	1000-1800nm	
Spectrophotometric noise	<100uA	< 50uA	
Wave length precision	0.2nm	0.2nm	
Wave length repeatability	±0.05nm	±0.05nm	
Spectral resolution	6nm	6nm	
Stray light	< 0.1%	< 0.1%	
Detection time	< 30seconds	< 30seconds	
Number of storage models group	6group	4group	
Number of simultaneous analysis index	6	6	
Storage spectrum	500	500	
Storage analysis results	6000	6000	
The light source power	Inner 5V/5W, outer 5V/10W		
The light source life span	> 5000 hours		
Communication interface	USB2.0		
Temperature range	(5-35) °C		
Humidity range	(5-85) %		
The light source	19V DC/4.5A or lithium batteries (work		
	continuously for less than eight hours)		
Dimension(length×width× height)	355mm×278mm×117mm		
Weight	6kg		
Standard spare	Water proof push	boxes,19V power	
	adaptor ,the strap, tool , data cable, CD		
	file		

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