OPTOSKY Spectroscopy Solutions

Datasheet

Handheld NIR Spectrometer | IR2200

Features

- Embedded operating system
- Handheld design, built-in large-capacity battery
- Support model import
- Easy to operate
- Provides powerful spectrum viewing, spectrum processing and spectrum statistical analysis functions
- Integrated chemometrics capabilities

Selection Guide

Model	Spectral range
IR2200-17	900nm-1700nm
IR2200-25TC	900nm-2500nm

Description

The IR2200 handheld near-infrared spectrum analyzer is a newly launched analytical equipment for on-site rapid testing by Optosky. It can be used for on-site rapid non-destructive, qualitative or Quantitative detection and discrimination.

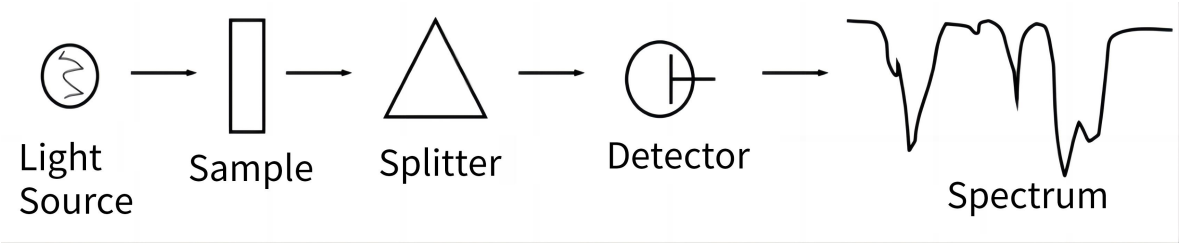
The instrument is equipped with an LCD touch screen and a full Chinese operating system. The wavelength covers the near-infrared range. It is lightweight, compact and easy to carry. It has a built-in long-life battery to meet the needs of on-site rapid inspection. And can be specially customized according to the actual needs of different users.

1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588

1. Parameter

Optical Parameters		
Spectral Range	IR2200-17	IR2200-25TC
	900nm-1700nm	900nm-2500nm
Light Source	tungsten halogen lamp, lifespan greater than 10,000 hours	
General Parameters		
Detection Time	less than or equal to 5 seconds	
Operating System	Android	
Screen Size:	6-inch capacitive touch screen	
Working Temperature / Humidity	5℃-45℃/5%～95%	
Battery Life	: not less than 4 hours (testing status)	
Volume Size	（L210mm*W96mm*H210mm）	
Wireless Communication	WiFi / Bluetooth	
Communication Interface	Type C	
Protection Grade	IP54	
Material	PC shell	
Instrument Weight	1.5kg	
Battery	Built-in 9000mAH lithium-ion rechargeable battery	
Standard Accessories	Standard whiteboard	

2. Working Principle



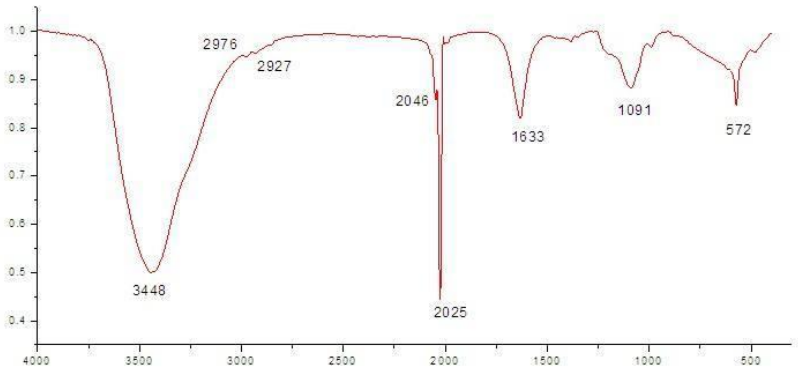
1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588

Materials have characteristic absorption in the infrared band. The instrument has built-in excellent infrared spectrum algorithms, which can detect materials without distinction and easily identify materials. The instrument uses Android system and the interface is simple and clear.

3. Application

Grain industry	Major cereals such as wheat, soybeans, rice, corn, rapeseed, and peanuts; Small grains such as sorghum and oats; cash crops such as flax, and cauliflower seeds.
	Measurable ingredients: Protein, fat, fiber, starch, amylose, fatty acid composition, various amino acids, gluten, hardness, sedimentation value, water absorption, etc.
Flour processing industry	Wheat, flour, bran,noodles and dough, etc.
	Measurable ingredients: Moisture, protein, fiber, sedimentation value, ash, hardness, gluten, water absorption, etc.
Meat products industry	Various meats and meat products
	Measurable ingredients: Moisture, protein, fat, ash, water activity, origin traceability, etc.
Feed industry	Semi-finished or final feed products, including pet feed.
	Measurable ingredients: Moisture, protein, fat, etc.
other industry	Grain storage, starch industry, medicine, tobacco
	Measurable ingredients: Moisture, protein, fat, etc.

4. Spectrum



1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588