

NIR Grain Analyzer

IR2300

Features

- Wavelength range: 570 nm ~ 1100 nm
- Compact, lightweight design
- Near-infrared transmission optical path
- Powerful infrared modeling software
- Eco-friendly, no sample prep, fast measurement
- HD touch screen, intuitive user experience
- Long-lasting light source (over 10,000 hours), easy maintenance
- Multiple data transfer interfaces for easy sharing

Application

- Rice and paddy acquisition, processing, and sampling testing stages
- Corn processing
- Other grains, etc.

Description

The NIR Grain Analyzer from Optosky uses near-infrared (NIR) spectroscopy to offer fast, non-destructive grain analysis. Ideal for the rice industry and grain milling, the IR2300 measures moisture, protein, amylose, and fatty acids in rice and brown rice.

With a user-friendly touch screen and intuitive software, users can begin analysis by simply pouring in the grain sample. This advanced grain testing solution provides real-time, high-precision results, making it perfect for precision agriculture and food industry quality control. It supports digital grain testing, delivering accurate insights to optimize grain quality in any production setting.



1 Selection Guide

Model	Description
IR2300	Using a transmission-type infrared absorption optical path, this model is suitable for testing parameters such as moisture, protein, amylose, and fatty acids in grains like rice and paddy.

2 Parameter

IR2300	
Analysis Parameters	
Sample	Rice, paddy (brown rice), etc.
Size	200g-400g (rice)
Time	≤60s
Parameters	Rice: Moisture, Protein, Amylose
	Paddy (Brown Rice): Moisture, Fatty Acids
Principle	Continuous scanning spectrum, transmission detection
Number of Sub-samples	5-25 adjustable (depending on grain type)
Accuracy	Rice: ±10% (relative error)
	Brown Rice: Moisture: ±10%, Fatty Acids: ±15% (relative error)
Repeatability	CV≤5%
Inter-machine Variation	≤3%
Optical Parameters	
Detector	2048 InGaAs detector
Spectral Range	570~1100nm
Light Source Life	Not less than 10,000 hours
General Parameters	
Operating System	Window 11
Screen	7-inch HD capacitive touchscreen
Data Output Interface	USB 2.0, Ethernet, Wi-Fi
Power Supply	220V, 50/60Hz
Storage Temperature	-20°C to 65°C

Operating Temperature	Room temperature
Operating Humidity	< 90%RH
Size	220*220*320 mm
Weight	6Kg

3 Physical Image



Figure 1: IR2300 NIR Grain Analyzer

4 Accessories

Standard Accessories	
1	Power Cord
2	Grain Measuring Cup
Optional Accessories	
1	None