NIR FOOD ANALYZER
LD-LNFA-A10

NIR Food Analyzer LD-LNFA-A10 is optimized for rapid and accurate food analysis. It can measure different parameters such as moisture, protein, fat/oil, ash, fiber, starch, amino acid, sugar, dry matter, and more. It is a portable instrument that can be taken to the field to support raw material acquisition, production inspection, and seed screening. The operation is simple; no special training is required, no sample preparation is required, and there is no damage to samples. All you need to do is place the sample plate on the analyzer platform, click on "measurement,", and the instrument will perform the measurement automatically and show the result immediately. A wide range of calibrations are available, and users can also develop their own calibrations.

Features

- Non-destructive rapid detection of physical and chemical components of granules, strips, and powdered samples is achieved within less than 10 seconds
- Light source is a tungsten halogen lamp with an expected lifespan of more than 10,000 hours
- It is a battery-powered; with one charge, the analyzer can work for more than 24 hours
- Even when the outdoor temperature is -20 °C in winter, the analyzer will still maintain stable work for more than 8 hours
- Analyzer can be connected to a mobile device via Bluetooth or a user-friendly mobile app for measurement and data processing
- With the mobile application, you can download and manage various calibrations, edit sample names, review historical data, perform bias calibration, etc.

Applications

Used in Grain, Corn & Oilseed Processing, livestock, Flow Milling, Starch Production, Sugar Production, Ethanol Production, Raw Material of Feed, Feed Final Productions, animal feed, pet food.

Specifications

Model No.	LD-LNFA-A10
Wavelength Range	1000 – 1800 nm

Light Source	Tungsten halogen lamp
Measurement Mode	Diffuse reflectance
Detector	High performance ultra-cooled InGaAs (Indium Gallium Arsenide) detector to -20 ℃, dual stage temperature stabilized
Optical Bandwidth	10.95 ± 0.3 nm @ 1395.5 nm
Signal to noise ratio	> 10000:1
Sample Volume	200 mL
Analysis time	6 – 10 sec. (30 scans / sample = 6s, scan speed = 5 times / sec)
Wavelength repeatability	< 0.05 nm
Wavelength accuracy	≤ ±0.2 nm
Stray light	< 0.1%
Analysis time	< 10s
Communication connection	Bluetooth
Temperature range	0-40 ℃
Humidity range	5-85 %
Power supply	(220 ± 20) V~/50 Hz
Dimensions (L × W × H)	220 × 310 × 310 mm
Weight	About 10 kg (without battery)