



NIR Food Analyzer LD-LNFA-B10

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Overview

LD-LNFA-B10 Desktop NIR Food Analyzer is a cutting-edge, high-precision Near-Infrared (NIR) instrument engineered for rapid, non-destructive analysis of grains, oilseeds, feed, and starch-based products. Equipped with advanced optical system, user-friendly interface, and built-in statistical tools. Designed to deliver accurate and actionable results in under 10 seconds, it is the ideal tool for applications in quality control, research, and pricing decisions across the food and agriculture industries.

Features:

- Delivers complete sample analysis in less than 10 seconds
- Suitable for a wide variety of agricultural and food products
- Exceptional accuracy, repeatability, and measurement stability
- Built for long-term reliability in demanding environments
- Intuitive interface for easy implementation, operation, and maintenance
- Plug-and-play design for streamlined workflows
- Equipped with modern NIR optics and high-resolution ultra-cooled InGaAs detectors
- Includes a comprehensive library of calibrations
- Smart software offers real-time analysis, graphical results display, and statistical tools
- Alerts for outlier detection and product specification limits
- Long-lasting lamp with >5,000 hours of operational life
- Lamp status is monitored via software and can be easily replaced by the user
- Users can develop and implement their own calibrations
- Supports online data analysis and advanced multi-statistical evaluations

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:

Weight	18 kgs
Gross weight	40 kgs
Light Source	Tungsten halogen lamp with expected lifespan more than 5000 hours, User changeable via specific disassemble tool
Power Supply	198-242 V, frequency 50 Hz, 0.5 A
Analysis time	6-10 sec. (30 scans / sample =6s, scan speed= 5 times/ sec.)
Sample volume	Flexible 50-150 ml, 3 types of sample cup
Ambient humidity	<90% RH, < 85% RH recommended

Background noise	Less than 50 ?A
Measurement mode	Diffuse reflectance
Wavelength range	1000-1800 nm
Optical Bandwidth	10.95 ± 0.3 nm @ 1395.5 nm
Ambient temperature	5-35 ?
Diffuse reflectance	High Performance ultra-cooled InGaAs (Indium Gallium Arsenide) detector to -25?, dual stage temperature stabilized
Wavelength accuracy	<0.1 nm to traceable standard reference material
Dimensions (L × W × H)	403 × 391 × 374 mm