MULTI-PARAMETER ANALYSIS

LUCID NIR **N100**

A versatile Near-Infrared (NIR) analyzer designed to help test material quality faster, more practically, and more efficiently. Portable, battery-powered, with minimal sample preparation.

900–1700 nm Spectral range	4.3 inch Color TFT LCD display
12 hours Operating time (up to)	3 years Product warranty



MEASUREMENT PRINCIPLE NIR reflectance over the 900–1700 nm spectral range, non-destructive.

KEY FEATURES

Non-destructive measurement
No damage to the sample.

Solid and liquid samples
One instrument for various sample types.

Minimal sample preparation
Rapid analysis.

Rechargeable lithium-ion battery
Up to 12 hours of operation.

Portable for field use
Battery-powered design.

PRODUCT ADVANTAGES

01 **Faster quality testing**

02 **More practical and efficient process**

03 **Sample stays intact after measurement**

04 **Portable for field use**

05 **Supports quality control processes**

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Engineered in Germany
Made in Indonesia

PRODUCT INFORMATION

Technical **specifications**

LUCID NIR N100

Product category: NIR Analyzer (general purpose)
Measurement principle: NIR reflectance over the 900–1700 nm spectral range, non-destructive.



MEASUREMENT SYSTEM	
Measurement Technology	**Near-Infrared Spectroscopy (NIRS)**
Measurement Mode	**Diffuse Reflectance**
Wavelength Range	**900–1700 nm**
Spectral Resolution	**1 nm**
Optical Bandwidth (FWHM)	**8 ± 0.1 nm**
Wavelength Accuracy	**±0.1 nm**
Number of Data Points	**801**
Light Source	**Mini Tungsten-Halogen Lamp**
Detector	**InGaAs Photodiode**
Optical System	**Scanning Monochromator**
Signal Processing	**Multi-Scan Averaging**
Data Analysis	**Chemometric Analysis**

ELECTRICAL	
Power supply	**Rechargeable lithium-ion battery**
Operating time	**Up to 12 hours (portable for field use)**

SAMPLES	
Sample type	**Solid and liquid**
Solid sample applications	**Biomass and wood pellets; rice husk and agricultural residues; Palm Kernel Expeller (PKE); other agricultural and industrial materials**
Liquid sample applications	**Vegetable oils; Crude Palm Oil (CPO); other compatible liquid samples**

INSTRUMENT SPECIFICATIONS	
Display interface	**4.3-inch color TFT LCD**
Design	**Portable, battery-powered**
Key features	**Rapid analysis; minimal sample preparation; portable battery-powered design**

ENVIRONMENTAL CONDITIONS	
Operating temperature	**5–40 °C**
Storage temperature	**−20–60 °C**
Relative humidity	**Maximum 80%, non-condensing**
Installation environment	**Indoor use**

STANDARD ACCESSORIES

- Main instrument
- Charger / power adapter
- USB Type-C cable
- User manual

WARRANTY

3 years

24/7 technical support
Service: Maintenance and technical assistance

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