

ProxiScout™

Portable NIR for Instant On-Site Analysis





Powerful. Portable. Precise. Unlock instant NIR analysis anywhere, anytime.

ProxiScout[™] empowers field operators to perform rapid, reliable in-field material analysis whether to determine the composition of raw materials or to verify their conformity and consistency on the spot. Designed for ease of use and seamless integration across workflows, ProxiScout[™] combines the power of:

- · Handheld NIR analyzer for instant, in-field measurements.
- · Wide range of accessories for different sample types.
- · Mobile applications for intuitive control and immediate results.
- · Cloud portal for model access, data management, and collaboration.

With these core components, ProxiScout[™] delivers unique capabilities for in-field NIR analysis. Let's explore the key features that set it apart.



Instant results for in-field decisions

ProxiScout[™] offers unmatched flexibility, enabling accurate, immediate NIR analyses right where you work-in the field, on production lines, or in warehouses. Built for mobility, its lightweight, ergonomic design frees you from laboratory constraints, providing instant insights to streamline workflows and boost productivity.

effortless operation

User-friendly mobile apps and a powerful cloud platform simplify multi-sample, multiparameter analysis, enabling efficient, fast, seamless analysis and simplifying complex testing workflows. Quickly measure samples and verify conformity, whether connected or offline.



Intuitive design for



Precision you can trust

ProxiScout[™] offers the widest spectral range (1,350–2,550 nm) for a portable device. Operating in the higher NIR spectrum, it ensures unmatched sensitivity and precision. This expanded range provides reliable results for confident decision-making. Quantify multiple key parameters in a single measurement and achieve precise, dependable results across diverse materials and applications.



Instant results for in-field decisions Analyze your samples without the lab

The ProxiScout[™] puts lab-grade precision in the palm of your hand, delivering powerful, in-field NIR analysis at your production site or in the field. Make immediate, data-driven decisions without delays. Here are some benefits you can realize from day one:





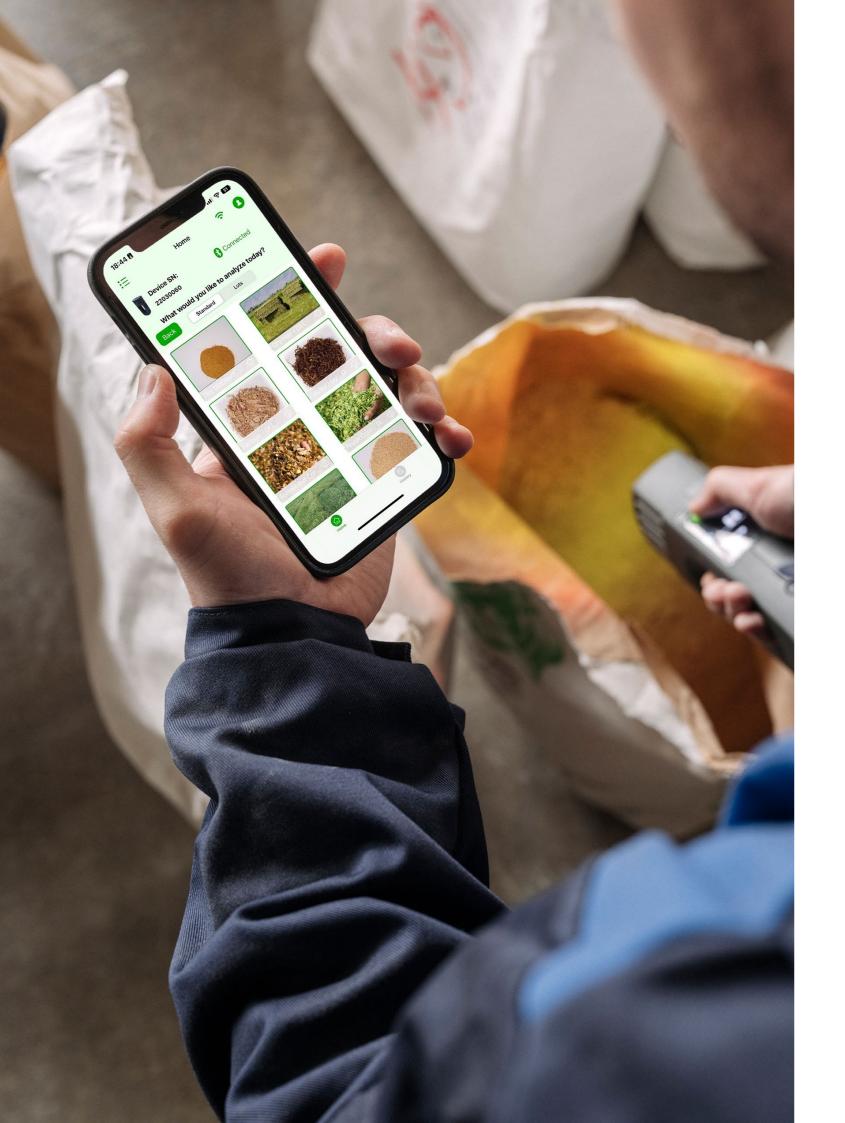


processes, and maximizing resource utilization.

Increased testing frequency: Perform more tests and verify quality at every stage-from raw materials to finished products-without the delays and costs associated with sending samples to a lab.

Cost and time savings: Quickly analyze key parameters on site to identify waste, detect inefficiencies, and optimize formulations-enabling immediate proactive decisions that prevent costly production losses.

Enhanced productivity: Instant and accurate analysis enables rapid decision-making, enhancing product quality, streamlining production



Intuitive design for effortless operation Get started with minimum training

Lightweight and handheld, the ProxiScout[™] is designed for effortless use in the field or on the production line. Intuitive mobile apps allow efficient analysis of multiple samples and parameters, enabling fast and seamless integration into existing workflows.



Handheld ergonomic design

Every design decision in the ProxiScout[™] is focused on making measurements as effortless as possible. Its shape, weight, sample interface position, and screen location are carefully optimized to allow easy, single-handed operation in the field.



Hassle-free control and data transfer The ProxiScout[™] connects directly to your mobile phone via Bluetooth, syncing settings, controls, and data between devices. This ensures a seamless experience throughout the measurement process-from initial calibration to final results.

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User-friendly mobile apps with in-app, step-by-step instructions enable operators to quickly set up applications, test samples, and obtain results in seconds, even when offline. Each app is designed to ensure an intuitive experience depending on the analysis type.

Scan app

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Protein	_	
Fot		
Storch	. H	
Fiber	- 8	
Ash	- 8	
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Allows operators to get instant insights about the composition of the samples with pre-built advanced calibration models.

vith intuitive apps

Conformity app



Allows operators to make their own models to detect any discrepancies in quality or formulation issues immediately.



Precision you can trust Lab-grade results in the palm of your hands

The ProxiScout[™] offers the widest spectral range among portable NIR devices (1,350–2,550 nm). By leveraging the higher end of the NIR spectrum, it enables analysis of more parameters and delivers greater accuracy.



Multi-parameter analysis

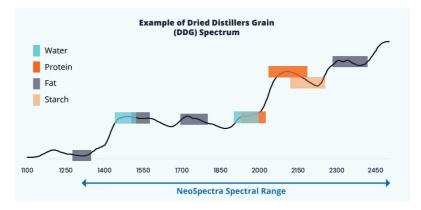
The uniquely wide spectral range of the ProxiScout[™] covers overtones and combination bands of the most critical functional groups required for informed in-field decisions. Operators can therefore quantify or qualify multiple parameters in their samples using just a single device.

WIDER RANGE	HIGHER WAVELENGTHS
More information about material composition.	Stronger and more distinct spectral response.
MORE PARAMETERS WITH	H BETTER ACCURACY
Ex: ProxiScout™ can analyze mixes of water, fat, protein and other compounds in	, fatty acids, alcohols,

Improved accuracy of results those achieved by benchtop laboratory NIR instruments.

Example of why a wide range of spectra matters

ProxiScout™'s advanced capabilities excel in real-world applications like Dried Distillers' Grain (DDG) analysis. One scan accurately measures a wide variety of critical parameters such as water, protein, starch, and more. The functional groups corresponding to each of those parameters have several absorbance bands across the spectral range. Giving models more data to increases the robustness and often improves the performance of the models.

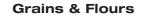


The combination of a wide spectral range and highly repeatable spectra generated by the ProxiScout[™] allows users to develop calibration models that deliver accuracy levels comparable, in many applications, to

Versatile applications

One tool. Countless possibilities.

The versatile design of the ProxiScout[™] makes it ideal for analyzing a wide range of materials across multiple industries-from agriculture to food production-delivering precise, reliable results instantly, wherever your work takes you.



Edible Oils Dairy Meat





Applications Moisture, protein, ash, starch, and gluten.

Free fatty acids, pH, acidity, authentication, saturation levels, adulteration, and moisture.

Fat, protein, lactose, water, adulteration, total nitrogen, and total solids.

Moisture, protein, fat, and tenderness.

Herbs & Spices







Moisture, adulteration, blend composition, oil content.

Caffeine, sensory attributes, roasting degree & type.

Why It Matters

Benefits for the Food Industry:

- · Improve production consistency for better profitability.
- · Optimize recipes to reduce costs without compromising quality.
- · Adapt production processes to maximize output and efficiency.
- · Perform instant quality checks on raw materials.
- · Validate product quality during production stages.

Benefits for the Feed Industry:

- · Ensure consistency and quality across batches.
- · Achieve precision in feed formulation.
- · Balance mixes nutritional value and cost-efficiency.
- · Support livestock health.
- · Streamline Formulation processes.

Fruits & Vegetables



Dry matter, acidity ethylene, ripening, and maturity index.

Feed



Silages, forages hay, by-products, pelleted feed.

Simplified sampling Accessories for every application

The comprehensive range of accessories available for the ProxiScout[™] enables you to handle diverse sample types, ensuring accurate and reliable spectroscopic analysis every time. Whether you're analyzing solids, liquids, or powders, BUCHI offers precise solutions tailored to your specific needs.



Rotator

- Turn Towards Sampling Excellence
- Effortless Sample Handling: A rotating cup that securely holds and moves samples over the device.
- Expanded Sampling Area: Enlarges the sampling area for comprehensive analysis.
- **Best For:** Non-homogeneous and granular solids, including silages, haylages, grains, seeds, and processed feed.



Liquid Analysis Kit

- See Liquids in a New Light
- Versatile Sampling: Includes eight vials that fit securely into a holder on top of the device.
- Flexible Pathlengths: Comes with a variety of transflectance accessories for different sample pathlengths.
- Best For: Clear and opaque liquid samples, such as oils and milk.



Powder Analysis Kit

Consistent Powder Precision

- \cdot Secure Sample Handling: Three high-precision dishes that fit securely into a holder on top of the device.
- Consistent Presentation: Includes small weights to press samples, ensuring uniform results.
- **Best For:** Powders and finely ground solids, such as powdered milk and ground grains.

Technical Data Specification ProxiScout™

Technical Specifications		
Wavelength Range		1,350
Resolution at λ = 1,500 nm, FWHM criterion		16 nr
Typical SNR' (nms) Scan time = 2s, λ = 2,350 nm		2,000
Sample Coverage (Diameter of Collected Light Bea	am)	~ 10r
General Specifications		
Dimensions	178 x	: 91 x 6
Weight	1 kg	
Operation Temperature	-5: 40	°C
Ingress Protection Rating	IP65	
Battery Type	Two re	echarg
Operating Battery Life (2 Second Scans)	800 S	cans
Battery Charge Time (1A Charging Current)	6 hou	rs on f
Bulb Lifetime	< 10,0)00 hrs
Wireless Connectivity	Blueto	ooth V4
Charging Port	USB-0	С

0–2,550 nm (7,400–4,00 cm⁻¹)

nm (66.6 cm⁻¹)

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62 mm

gable 18,650 batteries, user replaceable

fast charging to reach 100%

rs.

/4.2 BLE



NeoSpectra Cloud Portal Centralized insights. Effortless management.

The data generated by all ProxiScout[™] devices within your organization is automatically transferred and synced to the NeoSpectra Cloud Portal, where all data is securely stored, evaluated, and shared.



ProxiScout™

Mobile apps

ProxiScout[™] and NeoSpectra Cloud Portal empower your organization by decentralizing operations and centralizing data.

Key benefits

- **Remote connectivity and access:** Data generated from the field can be instantly accessed by quality control teams located at a different site to make fast decisions remotely.
- Deeper insights: Advanced analytics features let you uncover trends, patterns, and variations, revealing valuable insights from your data.
- **Centralized device management:** One place to remotely manage licenses and update the calibrations on all the ProxiScout[™] devices that your organization owns.
- Improved team collaboration: Teams across different sites and functions within the organization have a single version of the truth and can easily exchange data and insights. Secure cloud integration: APIs allow integration of data stored in NeoSpectra Cloud Portal
- with your data infrastructure.



Access the industry's most comprehensive library of ready-touse calibration models for various applications. Cut the time to develop custom calibrations and start exploring over 100 products and 500+ parameters developed and maintained by leading lab partners.



Cloud Portal

LabStore calibration library





Neospectra Scan App on Google Play

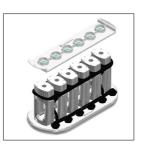
ProxiScout[™]

Extreme robustness Performance meets durability

ProxiScout[™] is engineered to perform flawlessly in demanding environments, providing reliable and continuous analysis whenever and wherever you need it most. Designed for durability, it ensures unmatched stability and dependable spectroscopic analysis, even in the harshest environments.



Dust and water protection (IP65) Built for harsh environments, ProxiScout[™] features IP65-rated protection, which guarantees robust defense against water jets and dust infiltration. This enables frequent, reliable measurements in challenging environmental conditions for improved process control.



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Rugged reliability

ProxiScout™ meets MIL-PRF-2800 Class 2 standards, ensuring durability and dependable performance even in harsh industrial conditions. Built to withstand shocks, drops, and vibration, this durability minimizes downtime, reduces maintenance costs, and delivers consistent performance.



Equipped with high capacity Li-Ion batteries, the device comes with rechargeable and easily replaceable power options. With a capacity for up to 800 scans per charge, it ensures continuous, hassle-free operation, allowing users to extend their analysis sessions seamlessly.



Complete your portfolio



NIR Portable

In the field, it is essential to analyze materials quickly and reliably-whether verifying raw material composition or checking product conformity on site. The portable NIR spectrometer is easy to use and delivers lab-grade results instantly via a mobile app, even offline, supporting seamless decision-making across your workflow.

NIR

During production, it is important to be able to control quality efficiently and quickly at each step of the process, from raw materials to finished products. BUCHI's NIR Solutions are easy to use by any operator and provide reliable results even in harsh production environments.

NIR-Online

Closely monitoring key parameters such as moisture, fat, or protein is crucial in correcting deviations that may occur during any manufacturing process. BUCHI NIR-Online[®] analyzers continuously provide accurate measurements within seconds to guarantee maximum production efficiency.

Core messages to our customers BUCHI creates added value

"Quality in your hands" is the guiding principle that shapes our philosophy and our actions. It challenges us to provide outstanding services that are precisely tailored to your needs. This means that we must stay in close contact with our customers. That is why we keep in touch and continue to work very hard to understand you and your business even better.

We help you by providing high-quality products, systems, solutions, applications and services that offer you added value. This allows you to focus entirely on your processes and your work.



Competent

We have the technological expertise and decades of experience needed to provide competent support and work with you to continually improve our services.



Reliable

We guarantee the quality and functionality of our equipment and will continue to help you quickly and efficiently whenever something does not operate to your satisfaction.



Safe

By collaborating closely with you, we do everything in our power to make our products, systems, solutions, applications and services as safe as possible for people and the environment.



Cost-effective

We strive to create a high level of economic benefit and maximum added value for you.



Easy

We support you by providing carefully designed solutions as well as instruments and systems that are easy to operate.



Global

As an international family-owned business with own subsidiaries and qualified distributors, we have a presence wherever you are located.



Sustainable

We support environmentally friendly processes and manufacture products that have a long service life. We utilize advanced technologies to leave the smallest environmental footprint possible.

We are represented by more than 100 distribution partners worldwide. Find your local representative at:

www.buchi.com

Quality in your hands

