

Measure more. **Accurately.**

AURA® analyzer – portable NIR spectrometer for real-time feed analysis

Seeing **beyond**

AURA® analyzer from ZEISS
Precision that goes where you go.

Feed ingredients can vary in nutritional value from batch to batch, field to field and over time. The more you know about their composition, the better equipped you are to make informed decisions and improve feeding efficiency.

With the AURA® analyzer from ZEISS, farmers can perform fast near-infrared (NIR) analysis directly on site and gain immediate insight into key feed-quality parameters. Portable and intuitive, it provides relevant feed-quality information exactly where decisions are made.

A bigger measurement area makes a big difference.

NIR spectroscopy is well established in agriculture and food analysis. However, its accuracy depends on the characteristics of the sample, especially when analyzing moist and heterogeneous feed materials.

That is where the AURA® analyzer makes a difference: It's designed to create consistent measurement conditions, helping to reduce the impact of sample variability.

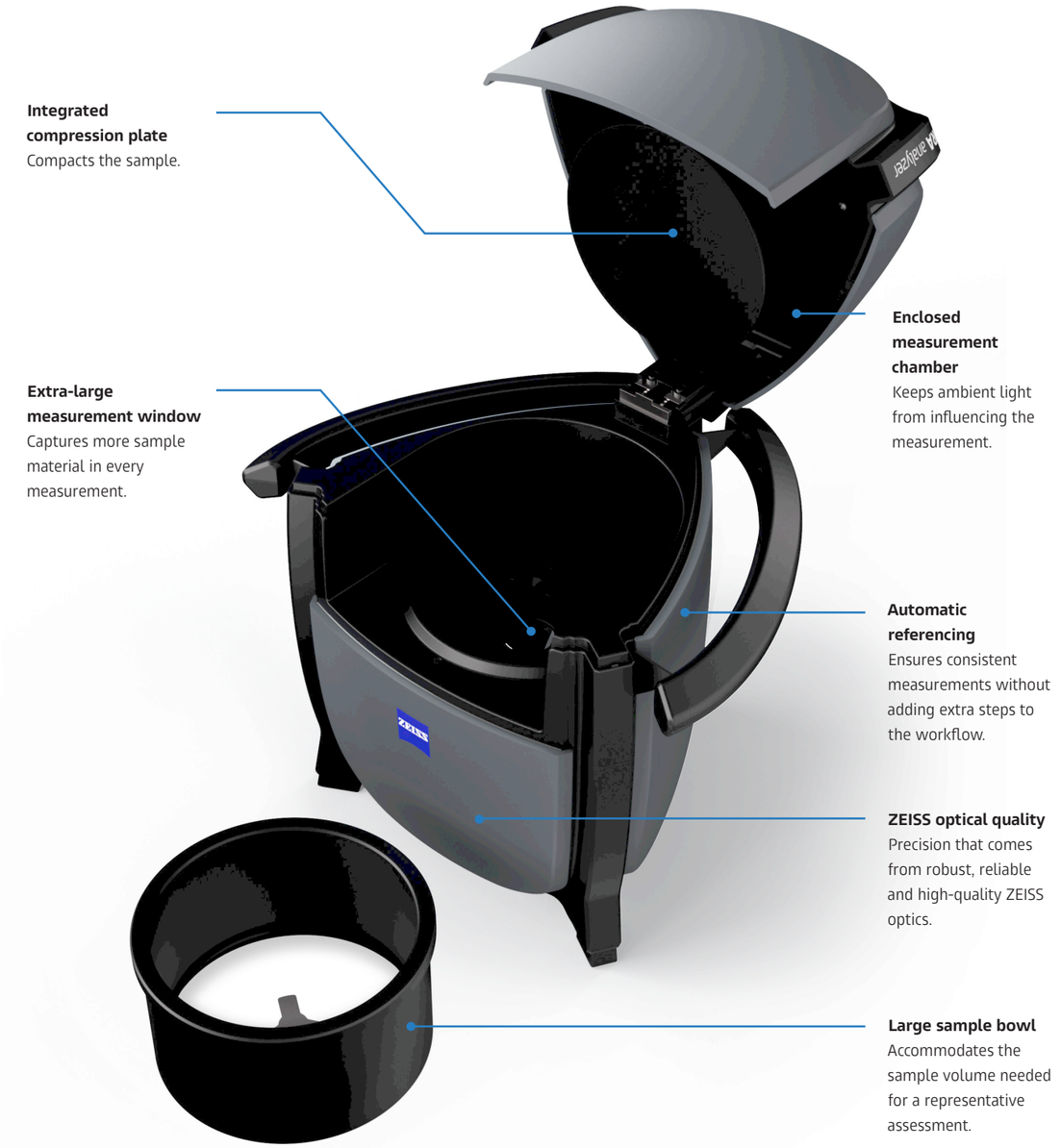
- Its **extra-large measurement window** captures significantly more sample material, reducing the influence of individual particles and supporting a more comprehensive evaluation of the sample.
- With its **purpose-designed sample bowl** it accommodates the sample volume needed for a representative assessment.
- The **integrated compression plate** helps ensure consistent sample density and reproducible measurement conditions.

Designed for real-world samples

Get the information you need to assess feed quality and support day-to-day feeding decisions.



Moisture · Protein · Starch · Sugar · ADFom · aNDFom · Ash · Fat



Benefits you can bring with you

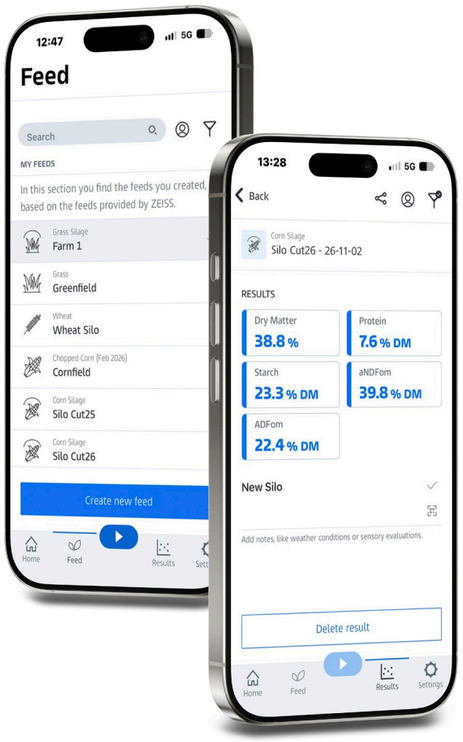
Reliable results
thanks to precise measurement on site

Informed decisions
through instant data and insights

More clarity
when determining feed quality

Better support
for the efficient use of available resources

Precision at your fingertips
The AURA® app to complete your hardware.



With the AURA® app, you can operate the AURA® analyzer directly from your smartphone via Bluetooth. The app guides you through the measurement process and brings together analysis, calibration models, results and data management.

AURA® app from ZEISS

Everything at a glance
Trends and changes in feed quality are easy to see.

Share data seamlessly
Results can be shared directly from the app or uploaded to the cloud.

Intelligence in the app
Even offline, the app combines measurement data with calibration models to deliver precise results directly on your smartphone.

Calibrations that work for you
ZEISS standard calibration models and your own custom models are centrally managed in the cloud and automatically synchronized.

Organized results
Easily find, filter, and compare your measurement data.

Secure data
Modern encryption and security standards protect data during upload and cloud storage.

ZEISS Digital Cloud platform

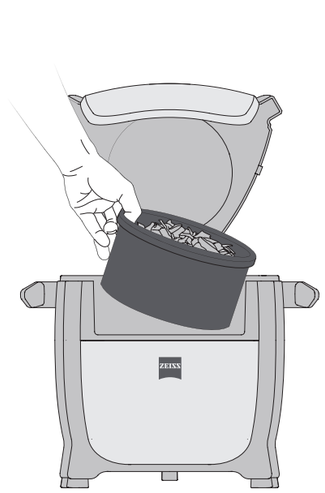
- Download calibrations and updates to smartphone
- Secure data management system for customized calibration
- Interface for customer-specific applications / programs



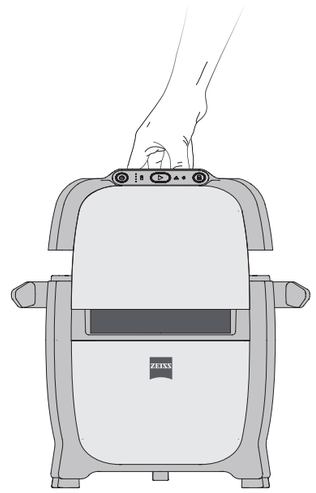
Feed analysis –
as simple as one, two, three.

The AURA® analyzer makes mobile feed analysis straightforward. Add the sample, start the measurement and get the result – directly where the information is needed.

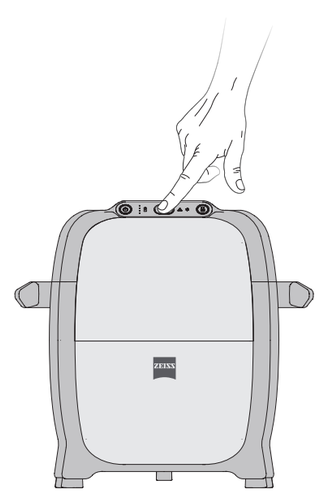
Clear guidance supports a consistent measurement process, while results are available within seconds. This provides quick access to information on feed quality and supports informed feeding decisions.



1 Fill
Place the feed sample in the sample bowl.



2 Close
Compress the sample to guarantee reliable measurement results.



3 Measure
Get results to evaluate feed quality and support feed management.

A broad spectrum of quality
ZEISS spectroscopy supporting modern agriculture.

ZEISS has been advancing optical measurement technology for more than 150 years. In 1997, ZEISS introduced its first NIR spectrometer, followed in 1999 by NIR technology for agricultural machinery.

Today, that expertise supports farmers, advisers and the agricultural industry through a range of ZEISS products for different applications across the agricultural value chain – from harvest and raw-material assessment to feed management, processing and nutrient application.

Wherever quality needs to be understood, meaningful measurement data creates transparency and provides a stronger basis for decision-making.



Optimize the harvest as it happens
Reliable measurement data helps you assess crop maturity and determine the optimal harvest time, while real-time NIR data provides insights into crop quality.



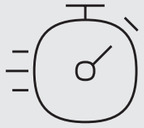
Apply nutrients with purpose
Analyzing nutrients such as nitrogen, phosphorus and potassium supports more targeted slurry application and helps improve the planning of agricultural operations.



Make feed work harder
Analyze feed constituents directly on site to support needs-based ration management, targeted supplementation and more efficient use of resources.



Know what's coming in
Rapid analysis of incoming raw materials gives more transparency about composition and quality before processing starts.



Decide on the spot
Mobile NIR solutions provide relevant information within seconds – exactly where it's needed.

A full range of applications.



HALOS®
One platform. Multiple agricultural applications.

HALOS® is a versatile measurement platform designed for use throughout the agricultural season. From dry-matter measurement on forage harvesters and nutrient analysis during slurry application to constituent analysis on combines or in stationary installations, the same device can support a wide range of applications without compromising performance.



Corona® process
Continuous insight into production quality.

Corona® process enables continuous inline analysis in food-production. The full-scale spectrometer measures various quality parameters in real time, such as constituents and color in the L.a.b. color space. Contact-free measurement above conveyor belts or at chutes helps monitor raw-material and product quality while production is running.



Corona® extreme
Built for demanding processes.

Corona® extreme is designed for challenging process environments and can be used in the laboratory, at-line or inline. This robust NIR spectrometer measures multiple quality-relevant parameters simultaneously, including fat, moisture, protein and more. Installation on pipelines, trough chain conveyors or chutes brings continuous quality information directly into the process.



AURA® handheld NIR
Quality information wherever the sample is.

AURA® handheld NIR is a portable spectrometer for flexible analysis directly at the sample. Long battery life, Wi-Fi connectivity, internal referencing and a robust design make it suitable for measurements in the field and a wide range of mobile quality-control applications.

Visit our website to learn more about AURA® analyzer

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