

X-NIR

PORTABLE NIR
ANALYSER



dinamica generale®



HANDHELD **NIR** ANALYSER FEED ANALYSIS **ANYWHERE, ANYTIME!**

QUICK



Never wait to get results.
Analysis without sample
preparation!

EASY TO USE

From nutritionists to
farm staff, everyone
can use it!



RELIABLE



Analyse all types of
materials from forages to
grains to pellets.

AFFORDABLE

Unbeatable
price/performance
ratio!





X-NIR Portable NIR Analyzer for Anywhere, Anytime grains and forages analysis. By taking NIR technology in field in the form of a portable, **handheld** NIR analyzer unit, farmers, consultants, growers and contractors can obtain **real-time results** while reducing costs from third-party testing. **X-NIR** takes lab-proven technology off the bench and makes it usable by non-scientists. Results that are available within minutes **on-site** enabling actionable decisions that increase profitability.

X-NIR KIT Composed of:

X-NIR Analyzer
2 x Lithium Battery
Battery charger with power supply
Usb stick
Check cell
Original Spare parts package

- 1x lamp
- 1x glas

NIR Trace Cloud software annual license
NIR Evolution Cloud software annual license



4"3 TOUCH SCREEN
LETS YOU ACCESS ALL
FUNCTIONS WITH A
SIMPLE FINGERTIP



CALIBRATIONS

- ✓ 5 components as standard on each analyser to pick from more than 80 ingredients available
- ✓ Up to 10 components on each analyzer
- ✓ Up to 32 parameters for each components (default is 7)

NIR COMPONENTS	PARAMETERS						
	MOISTURE	STARCH	CRUDE PROTEIN	ADF	NDF	ASH	CRUDE FAT
CORN SILAGE	YES	YES	YES	YES	YES	YES	YES
HAY	YES	NO	YES	YES	YES	YES	YES
HIGH MOIST CORN	YES	YES	YES	YES	YES	YES	YES
ALFALFA HAY	YES	NO	YES	YES	YES	YES	YES
GRASS SILAGE	YES	NO	YES	YES	YES	YES	YES
TMR	YES	YES	YES	YES	YES	YES	YES
SOYBEAN FLOUR	YES	NO	YES	NO	YES	YES	YES
CORN GRAIN	YES	YES	YES	NO	YES	YES	YES
WHEAT GRAIN	YES	YES	YES	NO	YES	YES	YES
ALFALFA HAYLAGE	YES	NO	YES	YES	YES	YES	YES
GREEN MAIZE	YES	YES	YES	YES	YES	YES	YES
GREEN GRASS	YES	NO	YES	YES	YES	YES	YES
SORGHUM SILAGE	YES	NO	YES	YES	YES	YES	YES
BARLEY GRAIN	YES	YES	NO	NO	NO	NO	NO
GREEN ALFALFA	YES	NO	YES	YES	YES	YES	YES
SOYBEAN GRAIN	YES	NO	YES	NO	YES	YES	YES

**MUCH MORE COMPONENTS
& PARAMETERS ARE ALREADY AVAILABLE**
(PH, digestibility, sugar, etc)

POSSIBILITY TO **CUSTOMIZE** YOUR NIR
INSTRUMENT WITH THE CALIBRATION CURVES
YOU WILL NEED FOR YOUR DAILY JOB

POSSIBLE TO DEVELOP NEW CALIBRATIONS
AND UPLOAD REMOTELY

NO NEED OF INTERNET CONNECTION TO GET NIR RESULTS



**REAL TIME
ANALYSIS**



**REAL TIME
RESULTS**



**REAL TIME
DECISIONS**

NIR TRACE

Management software in cloud that allow to record organize and show NIR analysis:
Data analysis from X-NIR™ are transferred to the software through USB/WiFi

- Manage different customers/farms
- Multi filters (families/nutrients/customers) to create custom report and statistics
- PDF and Excel download of all analysis stored in the software
- Possibility to manage many NIR analyzers with a single software using different IDs
- Graphs to see the trend during the time





IN FIELD



ON FARM



IN LAB
(CONSULTANTS)

MAIN USES

DEFINE CORRECT TIME TO HARVEST

CHECK QUALITY OF PURCHASED
MATERIALS

MANAGE FORAGES/GRAINS/FEEDING
VARIABILITY

TEST TMR QUALITY

POTENTIAL CUSTOMERS

DAIRY FARMERS

FEEDLOTS

FEEDING COMPANIES

SEEDING COMPANY

NUTRITIONISTS/VETERINARIES

CONTRACTORS/GROWERS/BIOGAS

NIRevolution



NIR EVOLUTION IS A CLOUD SOFTWARE TO
MANAGE YOUR NETWORK OF NIR ANALYZERS



UPDATE THE CALIBRATIONS & THE
FIRMWARE OF THE ANALYZERS REMOTELY



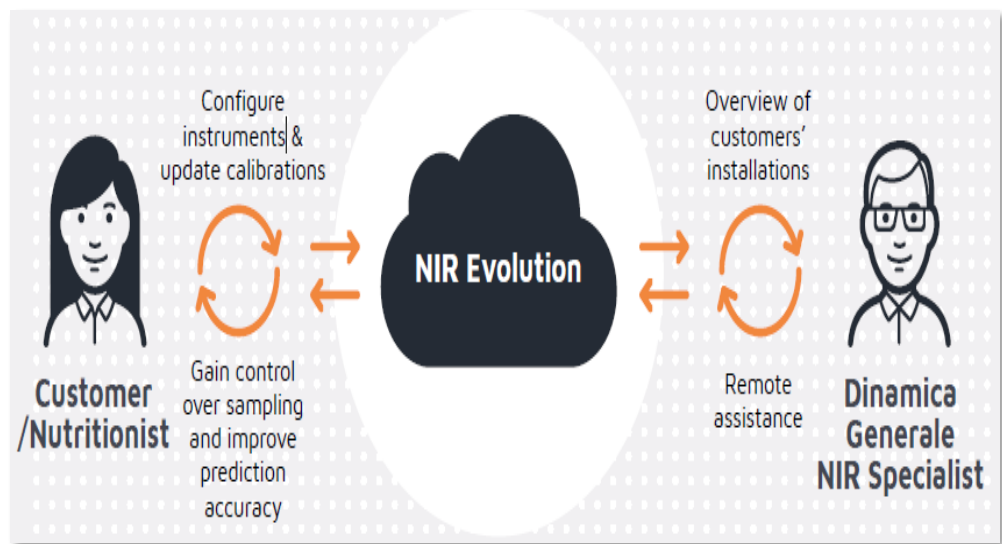
EVERY USER CAN LOCALIZE CALIBRATION
CURVES UPLOADING SPECTRA AND
REFERENCE VALUES



REMOTE SERVICIABILITY

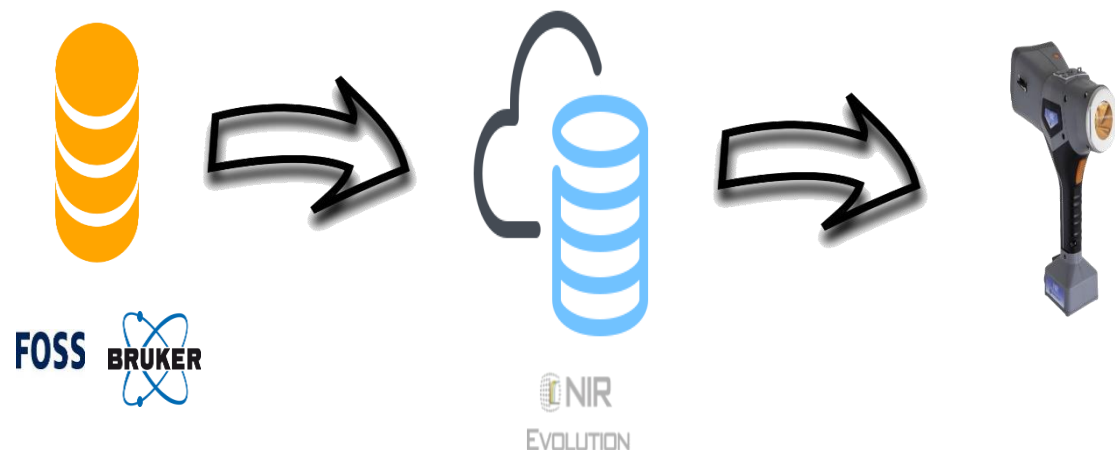
Thousands applications worldwide, vast on-site analysis experience and internal calibration curves generation capabilities are the foundations of our success.

Farm managers, nutritionists, biogas plant owners, growers and contractors are using Dinamica Generale NIR analyzers worldwide to make right decisions and take effective actions to optimize profits.

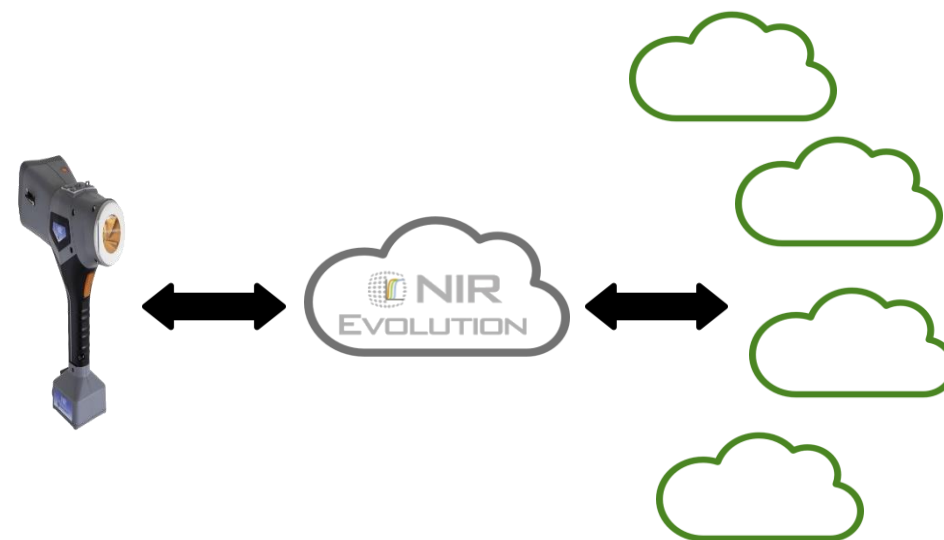


- ✓ Team of engineers and maths focused on NIR research and development
- ✓ In-house lab for extensive calibration curve creation capabilities

DATA SET TRANSFERABILITY – OPEN PLATFORM



POSSIBILITY TO TRANSFER EXISTING CALIBRATION CURVES FROM THIRD PARTIES DATASET (FOSS, BRUKER, ETC) TO DG NIR ANALYZERS



DINAMICA GENERALE SOFTWARE ARE BASED ON OPEN PLATFORMS ALLOWING THE POSSIBILITY TO EXCHANGE DATA (IMPORT/EXPORT) WITH THIRD PARTIES SOFTWARE

SPECIFICATIONS

WORKING TEMPERATURE	0°C ÷ 40°C
POWER	Rechargeable Lithium Battery
CASE	ABS Plastic ALL INTEGRATED: ANALYZER + DISPLAY
SPECTROMETER	InGaAs detector array
SPECTRAL RANGE	950-1800 nm
SCANNING METHOD	Reflectance Automatic internal reference
CONNECTIVITY	WiFi/USB NIR Evolution & NIR Trace
CALIBRATION	Up to 10 components Up to 32 parameters for each component
COMPONENTS	Forages (hay & silage) Grains , Olive husk, etc
PREDICTION ENGINE	OnBoard, NO need of internet connection to perform real time analysis
DIMENSIONS	Case: 50 x 20 x 18 cm – 7,5 kg Analyzer: 30 x 26 x 12 cm – 1,6 kg



QUALITY UPGRADE PACK

The first year of QUP is included with the purchase of the analyser

The agreement includes:

- Extended warranty (1 or 5 years)
- Immediate verification and upgrade of calibration curves (if necessary) for 5 ingredients through the NIR Evolution Cloud software.
- Immediate identification of outlier samples through the NIR Evolution Cloud software.
- Hardware / software update to keep your device at top performance.
- Original spare part package: 1 x Lamp replacement kit, 1 x Glass replacement kit
- NIR Trace software to keep under control changes in forage quality over time thanks to statistics and reports on historical data.





**THANK
YOU**