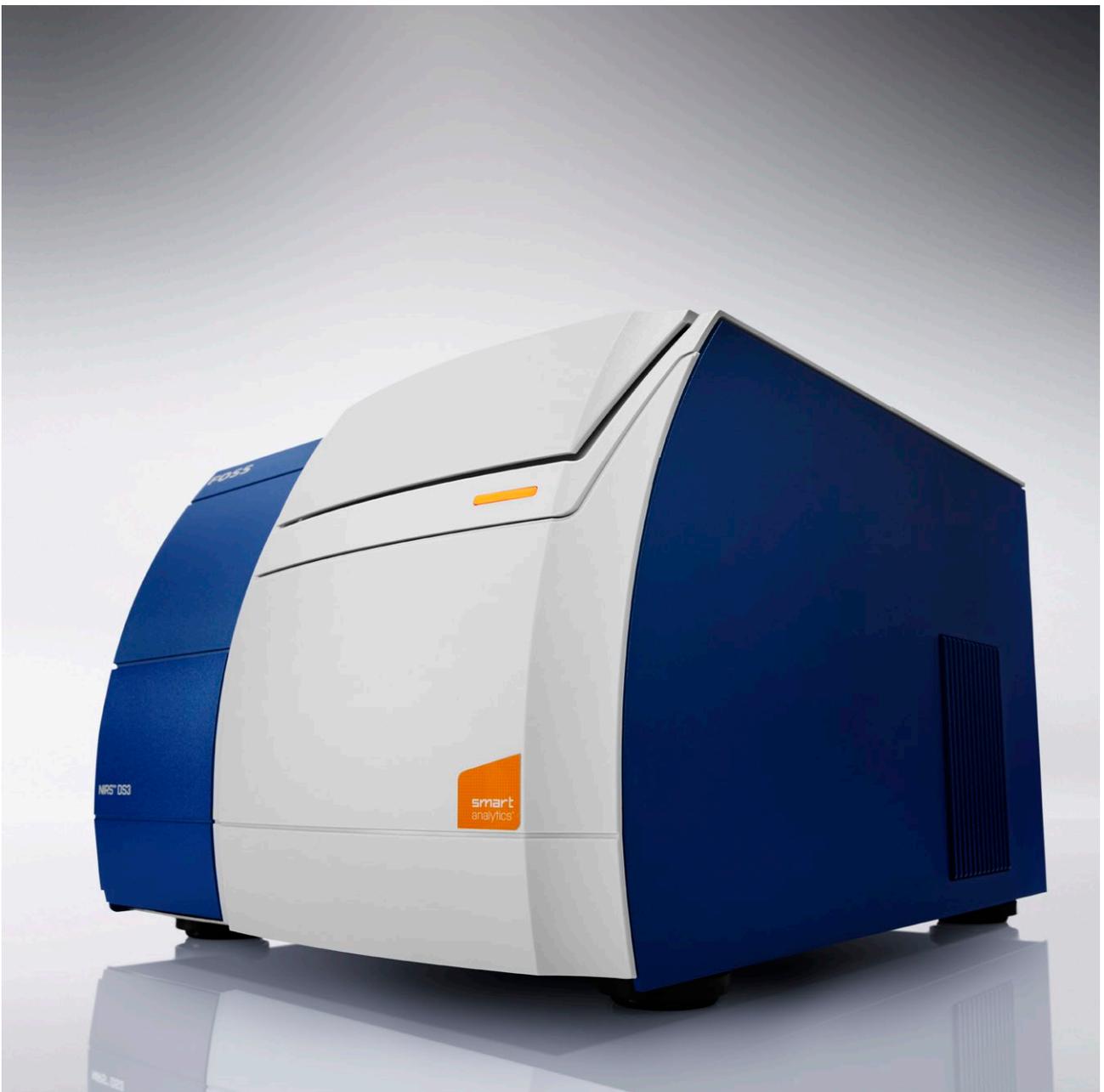


**FOSS**

## **NIRS™ DS3**

Advanced feed analysis for everyone



**ANALYTICS BEYOND MEASURE**



## In a dynamic feed industry, reliable test data is essential for everyday decision making

Throughout your production cycle, the availability of analytical data can make the difference between profit and loss. Further, the power of knowledge afforded by reliable tests is increasingly vital for ensuring consistent quality and not least, for running a sustainable production where nothing should go to waste.

Rapid analysis with near infrared (NIR technology) is a proven way to gain rapid test data on key quality and production control parameters. Easy to use, fast and reliable, NIR analysis has become an indispensable tool for thousands of feed producers around the globe. Now innovation in NIR analysis marks a new era in the ever-developing story of versatile NIR analysis.

### Introducing the NIRS™ DS3

The latest generation of FOSS innovation within feed testing has just made it simpler for you to exploit rapid analysis and to achieve the many quality and cost improvements that follow. The NIRS™ DS3 is an advanced and versatile

solution for testing a range of parameters such as protein, moisture, fat, ash, fibre and starch in under a minute. Tests are performed on ground, unground or liquid material with no or very limited sample preparation.

## 3 ways innovation adds value

- Efficiency of operations is improved by optimising the analytical workflow
- New levels of confidence in analytical data are achieved through consistent high performance
- Improved uptime ensures that critical analysis data for decision-making is more available than ever



Compound feed, pet food, forage, aqua feed – the list continues of the many applications for the superbly versatile NIRS™ DS3. Unground, ground and liquid samples can be measured with new levels of analytical performance.





### Smart Start

The Smart Start function ensures that your NIRSTM DS3 is ready to measure without having to wait for diagnostics. Just start the shift and start measuring.

## Effective analytical operations

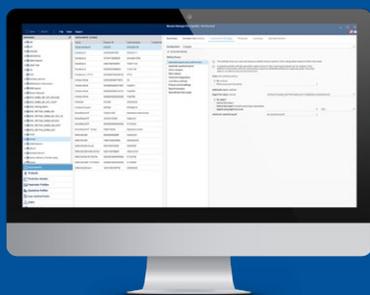
The NIRSTM DS3 optimises all aspects of the analytical workflow including sample presentation, ease of operation and instrument maintenance for maximum efficiency at minimal running cost. To mention some advantages:

- The Smart Start function ensures that the instrument is ready to measure as soon as you start the morning shift
- Automated sample transfer to data management systems avoids operator time spent on manual data input
- The intuitive user interface minimises training and the seamless installation procedure gets

you up and running without undue time and use of resources

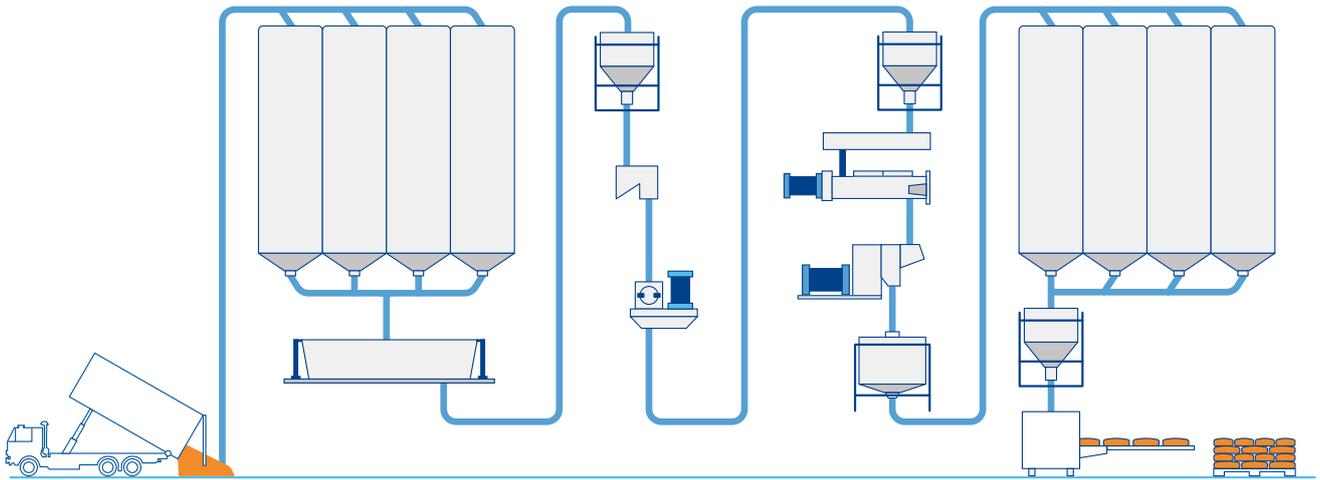
- FossManager™ software ensures that you are automatically in the loop for sharing benefits of networked analytical solutions
- A lamp guard avoids interruptions by letting you know when to schedule a change of the lamp

With less time spent on administration and checking that everything is running right, you can focus more on continuous improvement of quality and economy rather than time-consuming analytical operations.



FossManager™ software allows instruments to be connected in a network, making it easier, quicker and more reliable to manage individual or multiple instruments from a desktop located anywhere.

- Access instrument settings and consolidated data on a single or multiple instruments across sites, from any location
- Perform remote configuration of your instruments and monitor that they are operated in compliance with standard operating procedures
- Safeguard your data with automatic backups of settings and analytical results



Applications for the NIRSTM DS3 include handling intake, improving production processes and ensuring final product quality.

## Complete solution builds confidence

The NIRSTM DS3 provides accurate and reliable data for decision-making by exploiting the latest in both hardware and software technology. It's a complete solution that covers all the points of the analytical compass from calibration to sample handling and measurement. The option to create statistical reports based on data from multiple-instruments adds further insight into the performance of individual units or a whole fleet of instruments.

At the heart of the solution, the capability to scan samples across a wide spectral range of 400 - 2,500 nm makes for a versatile instrument that is ideally suited to feed analysis. The simple operation allows anyone to do valid testing. Your skilled technicians can be allocated to other jobs, reducing training requirements and reliance on specialist staff.

### Consistent feed whatever the scale of your organisation

With the NIR DS3 everything is in one place and on one screen with FossManager™ networking software allowing you to pull in data from diverse instruments from different suppliers.

Just one of the advantages that this overview gives is that it is easy to ensure that standard operating procedures are followed throughout

the organization. For instance, access-controlled user interface settings allow simple and transparent procedures and reporting. Scheduled diagnostics and intelligent error messages safeguard the reliability of the analytical data used to control critical processes throughout the feed production process.

### Ready to use calibrations or develop your own with speed and efficiency

Obtain accurate results from robust calibration models to cover the analytical requirements of your company.

- FOSS ANN calibrations are plug-and-play and ensure robust operation at a low cost
- FOSS global ANN calibrations are comprised of thousands of samples from a large variety of raw materials
- Alternatively, develop your own calibrations with easy-to-use FossCalibrator™ tool
- Advanced parameters are available through 3<sup>rd</sup> party calibration providers

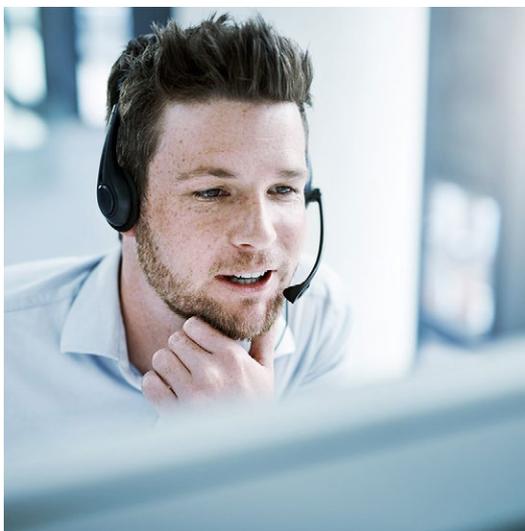


## Unique levels of uptime

Always ready-to-test, the uptime of the NIR5™ DS3 is assured with robust performance based on decades of analytical technology development for the feed industry.

The analytical performance is complemented by advanced diagnostics for troubleshooting and simple instrument maintenance, for instance, with automated notices giving simple instructions for any operator to follow without training.

At the same time, remote instrument monitoring and monthly feedback, available as part of the unique FOSS SmartCare™ services, ensures a lasting return on investment. Compliance notification alerts or validated performance and calibration keep you running smoothly without the risk of unscheduled downtime.



### Introducing SmartCare™

SmartCare™ ensures indisputable results from your FOSS analytical solution. Uptime is safe-guarded and trouble-shooting alleviated, setting you free to do your job in pursuit of improved business performance.

With a SmartCare™ service agreement you are:

- Always a step ahead
- Always ready to act
- Always improving



Test solid and liquid samples with just one instrument

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