

FOSS

excellence

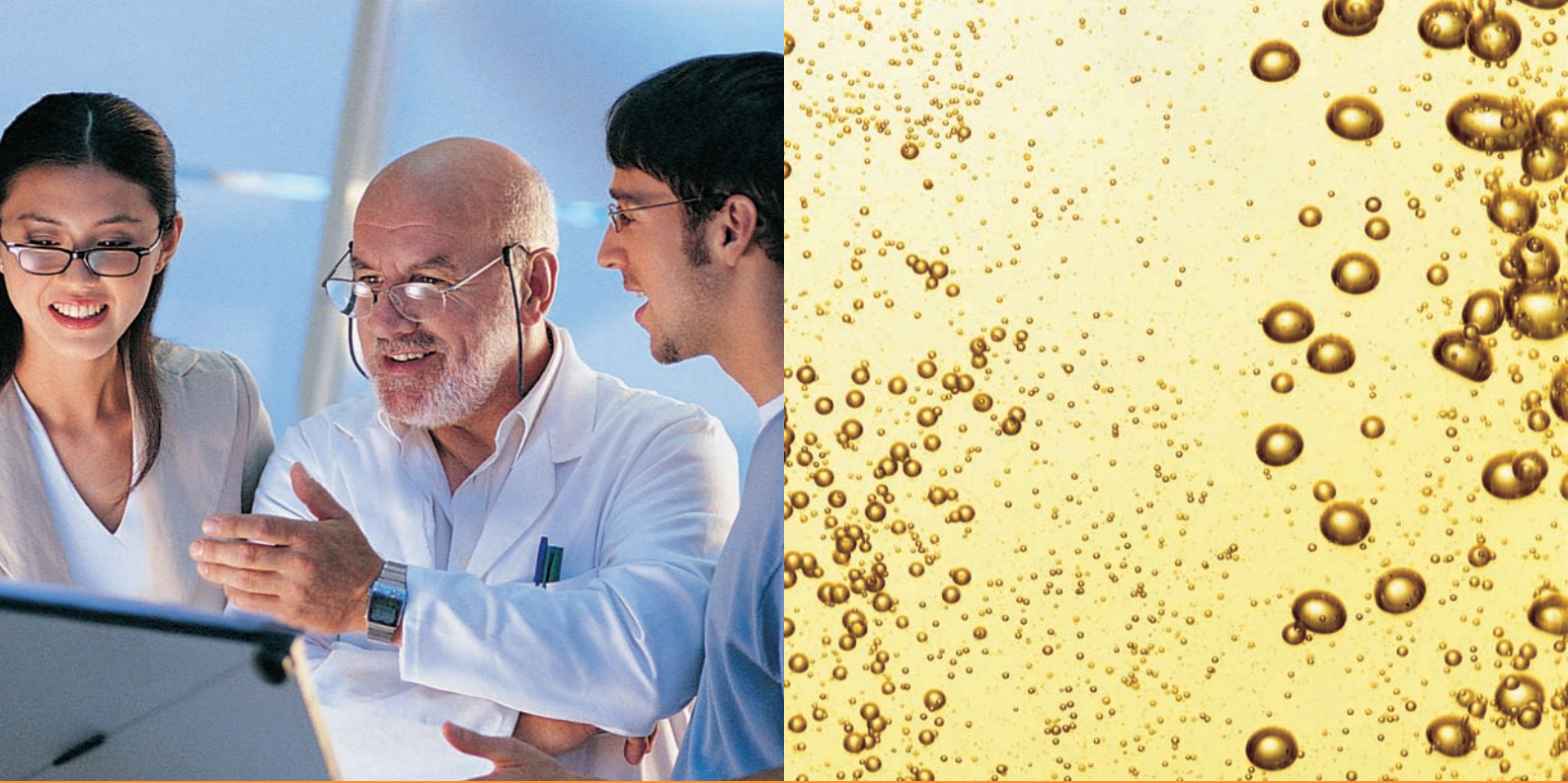
excellence in NIR



XDS Rapid Liquid™ Analyser
XDS Rapid Content™ Analyser
– with ISIScan™ software

The advantage of excellence

Dedicated Analytical Solutions



To suit your business

For decades, FOSS has harnessed the versatility and power of Near Infrared (NIR) technology to the benefit of our customers. Today, innovative FOSS NIR solutions are used across diverse industries, including grain, feed, flour and milling, sugar, dairy, meat and edible oils as well as within the pharmaceutical and chemical industries.

Representing the top-end of the FOSS NIR product portfolio, XDS analysers offer you new levels of excellence in NIR analysis. Advantages for your business include simplicity-of-use, efficient calibration management and the capacity to handle a wide range of sample types.

The XDS Rapid Liquid™ Analyser is ideal for routine analysis of vegetable oils in the refinery industry and for olive oil segregation. Determination of key parameters such as FFA, moisture, Phosphorous, IV, K232, K270, PV in less than a minute is much faster than with traditional wet chemistry. This gives you more control over vegetable oil production or olive oil segregation and more power to improve product quality and consistency. Samples can be analysed in quartz cuvettes with different path-lengths or in disposable vials.

The versatile XDS Rapid Content™ Analyser offers simple and rapid analysis of solid, liquid and viscous samples. The flexible sample presentation makes it ideal for routine control analysis throughout your production process, including analysis of raw materials, material in production and finished products.

XDS analysers are also ideal for research laboratory applications where the broad scanning range (400 – 2500 nm) provides a highly versatile analysis platform that is both accurate and fast. The ISIScan™ software provides a user-friendly interface supporting the latest calibration technologies with advanced data exchange (LIMS) and reporting capabilities.

As well as being simple to use, XDS instruments are straightforward to run. The advanced features provided by XDS NIR technology, together the well known WinISI™ calibration development software, minimise implementation time for the instruments and ensure effective calibration management with seamless calibration model transferability between instruments.

Keeping calibration in check

Calibration is a major consideration for any NIR analysis solution. Features such as the XDS instrument standardisation, calibration transferability and FOSS ready-to-use calibrations, make calibration as straightforward and as cost-effective as possible.



You've got it all!

Advanced technology, reliable results, efficient operations – all are elements of the XDS advantage.

Precise Instrument Matching - XDS provides identical analytical performance across instruments. NIST traceable standards and methods establish the photometric, wavelength and most importantly the bandpass response for each instrument.

Superior Analytical Performance - Wavelength and bandpass accuracy combined with signal-to-noise and photometric performance makes XDS a highly versatile solution. Patents include:

US Patent no. 4,997,280, SPECTROPHOTOMETRIC INSTRUMENT WITH RAPID SCANNING DISTORTION CORRECTION

US Patent no. 6,031,608, SPECTROPHOTOMETRIC INSTRUMENT WITH RAPID OFFSET GRATING TO IMPROVE FOCUS

Seamless Method Transferability - XDS NIR technology ensures seamless calibration transferability thereby reducing NIR calibration development costs to a minimum. Both quantitative and qualitative methods can be transferred directly from one XDS NIR analyser to another without adjustment.

Network-Ready - XDS NIR analysers are designed to be operated over a network. Data archival and retrieval, spectral database management, performance verification or remote operation can be accessed through this network for improved method development and remote support assistance.

Reliability - Integrated diagnostic routines verify correct instrument performance. And since all XDS NIR analysers are precisely matched, you are assured of equivalent analytical performance after maintenance without adjustment to your calibration models.

ISIScan™ software

ISIScan™ is a powerful tool for routine and diagnostic reporting and integration of results into your LIMS or process system. The software stores all results, settings and calibrations, giving you full traceability for your NIR results. It is simple to retrieve historical data and export it in any of several formats.

WinISI™ calibration software

WinISI™ software offers advanced features for creating robust application models. Data management and population structuring tools optimise selection and maintenance of calibration samples. Advanced chemometric algorithms help you to get the most from your calibrations.

Technical data:

Wavelength range:	400 – 2500 nm
Operating temperature:	5 – 35°C (40 – 95°F)
Wavelength accuracy:	<0.05 nm
Dimensions (w x d x h):	457 x 572 x 387 mm





The XDS advantage

The technical excellence provided by XDS ensures simplicity of use, efficient operations and the capacity to handle a wide range of sample types.

Specific advantages include:

- Superior analytical performance providing high quality results in less than 60 seconds
- Instrument standardisation that reduces calibration costs by allowing the same calibration to be used on different instruments
- Swappable modules
- Full visible and near-infrared (NIR) scanning with sensitive outlier detection to minimise the number of samples needed to get a robust calibration model
- User-friendly software for efficient calibration development and operations
- Simplicity of use in the lab or in the control room
- Use PLS, ANN or LOCAL calibration models



About FOSS

FOSS provides dedicated analytical solutions that ensure optimal production of food, agricultural, pharmaceutical and chemical products. FOSS solutions analyse and control your products before, during and after production - helping you to optimise both quality and profit.

Your partner for fast and reliable analysis, FOSS is unique in offering a range of dedicated solutions based on both indirect and reference methods. FOSS solutions provide analysis and control throughout the production process, from raw material to finished product and from routine analysis to at-line and in-line process control.

An established leader in the field of dedicated analytical solutions, FOSS is a privately-owned company employing over 1100 worldwide. FOSS has manufacturing and research and development facilities in Denmark, Sweden and the USA.

Solutions are sold and supported through FOSS sales and service companies in 21 countries and by more than 75 dedicated distributors.

FOSS

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