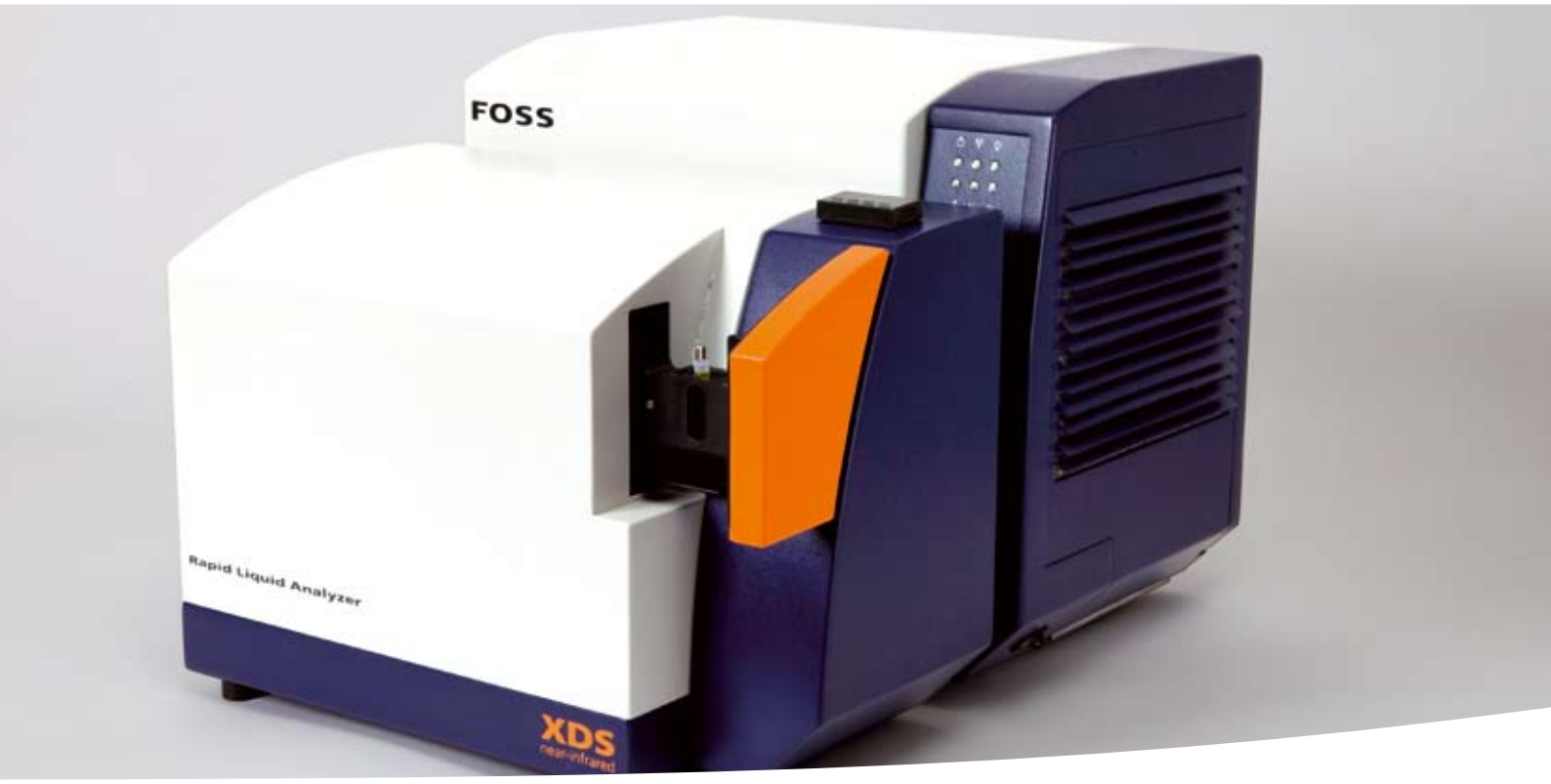
XDS Rapid Liquid™ Analyser

- with ISIscan™ software



The XDS Rapid Liquid™ Analyser with ISIscan™ software provides rapid non-destructive analysis of liquid and viscous samples

Features and benefits

- Rapid, non-destructive analysis of liquid and viscous samples for routine process control and research laboratory analysis
- Superior analytical performance delivers high quality results in less than 60 seconds for preheated samples
- Instrument standardisation reduces calibration costs by allowing the same calibration to be used on different instruments
- 400 - 2500 nm scanning range with sensitive outlier detection minimises the number of samples needed to get a robust calibration model
- Temperature controlled sample compartment ensures high performance
- Flexible sample presentation allows samples to be analysed in quartz cuvettes with different path-lengths or in disposable vials
- A safe and environmentally-friendly solution that does not involve sample preparation, reagents, hazardous chemicals or chemical waste
- Meets NEMA12/IP55 requirements – make the analysis where you need the result
- Use PLS, ANN or LOCAL calibration models

Technical exellence

Offering outstanding performance and patented scanning technology that provides excellent transferability, the XDS Rapid Liquid™ Analyser represents the top end of the FOSS NIR product portfolio. Technical excellence ensures simplicity of use, efficient operations and the capacity to handle a wide range of sample types.

The advanced features provided by XDS NIR technology together with the well known WinISI™ calibration development software, minimise implementation time for the instrument and ensure seamless calibration model transferability between instruments. The instrument is straightforward to use and results are delivered in less than a minute.

The temperature controlled sample compartment ensures that all samples are measured at a consistent temperature (+/- 0,1ºC).

XDS Rapid Liquid Analyser is operated with the ISIscan™ software. ISIscan is a user-friendly routine operations program that supports the latest calibration technologies with advanced data exchange (LIMS) and reporting capabilities.

For routine analysis or research laboratory application

XDS Rapid Liquid™ Analyser is ideal for routine analysis of vegetable oils in the refinery industry and olive oil segregation. Determination of FFA, moisture, phosphorous, IV, K_{232}, K_{270}, PV in less than a minute (for preheated samples) allows full control of the vegetable oil refinery process or olive oil segregation with-out waiting for time consuming traditional wet chemistry analysis. For routine analysis, the instrument can be used for analysis of liquid and viscous samples of raw materials, material in production and for finished products. Relevant features include easy-to-make robust calibrations, transferable
calibration models between instruments, full spectra outlier detection for secure results, NIST traceable performance test and versatile sample presentation with different cuvette types.

For research laboratory applications, the broad scanning range (VIS and NIR) and the flexible sample presentation provides a highly versatile analysis platform that is both accurate and fast.

System description:

XDS NIR Rapid Liquid™ Analyser includes:
1 pcs XDS laboratory monochromator
1 pcs XDS Rapid Liquid™ module
1 pcs disposable vial spacer
1 pack disposable vials
1 pcs NIRStandards™ certified standard
1 pcs ISIscan™
1 pcs XDS accessory kit
1 pcs XDS Rapid Liquid™ Analyser installation and operation manual

Accessories:

Quartz cuvette open top 0.5 mm
Quartz cuvette open top 1.0 mm
Quartz cuvette open top 2.0 mm
Quartz cuvette open top 4.0 mm
Quartz cuvette open top 10.0 mm
Quartz cuvette open top 20.0 mm
Quartz cuvette screw top 2.0 mm
Quartz cuvette screw top 4.0 mm
Quartz cuvette screw top 10.0 mm
Quartz cuvette screw top 20.0 mm
Disposable vials (scanning range 400 - 2240 nm)
NIRStandards certified transmission standards
WinISI™ III calibration development SW

Technical data:

Wavelength range:	400 – 2500 nm
Operating temperature:	5 – 35°C (40 – 95°F)
Sample temperature control:	Maximum 60°C (140°F)
Operating humidity:	10 – 90% relative
Dual detector system:	Silicon (400-1100nm), Lead Sulphide (1100-2500nm)
Data acquisition rate:	2 scan/sec
Spectral resolution:	2 nm
Wavelength accuracy:	<0.05 nm
Dimensions (w x d x h):	457 x 572 x 381 mm
Weight:	34.4 kg

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

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