

NIRS XDS RapidLiquid Analyzer

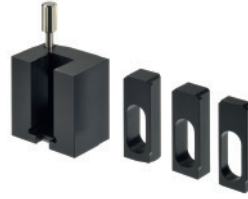


Fast, accurate analyses of liquids and suspensions
of any kind

The NIRS XDS RapidLiquid Analyzer enables fast, straightforward analyses of liquid formulations and substances. Highly accurate measurement results at the press of a button make the NIRS XDS RapidLiquid Analyzer a reliable and simple solution for quality control in the laboratory and in the process. Samples are placed in reusable quartz cuvettes or disposable glass vials; a tempered sample compartment ensures reproducible analysis conditions and, as a result, accurate measurement results.

The NIRS XDS RapidLiquid Analyzer is ideal for:

- qualitative and quantitative analyses of liquids and suspensions of any kind
- monitoring temperature-controlled liquid products
- replacing more costly routine tests



Benefits for the user

- Saves time – no need to prepare samples; provides analysis results in real-time
- Simple to use – analysis results at the press of a button
- Convenient – less cleaning required thanks to standard quartz and disposable cuvettes
- Simple to transfer methods and calibration models from instrument to instrument

Key features

- Temperature-controlled sample compartment (up to 65 °C) for accurate, reproducible analysis results
- Universal interface for quickly changing the measuring modules in just seconds
- Network-compatible – central result and data management (client-server solution)

Technical specifications

Measuring mode	Transmission
Sample interface	Cuvettes, vials
Wavelength range	400–2,500 nm
Measuring modules	Hot-swappable
Detectors	Silicon (400–1,100 nm), lead sulfide (1,100–2,500 nm)
Data collection speed	2 scans/sec
Data point interval	0.5 nm
Wavelength accuracy (currently recognized standard)	< 0.05 nm (SRM 2035)
Wavelength precision¹	< 0.005 nm
Wavelength precision² (instrument to instrument)	< 0.020 nm
Stray light	< 0.1% at 2,300 nm
Photometric linearity	< 1% of the measured value
Bandpass	8.75 ±0.10 nm
Noise (RMS, for 32 co-added scans)	
400–700 nm	< 50 micro AU
700–2,500 nm	< 20 micro AU
Weight	39.0 kg (86.0 lbs)
Dimensions (W × H × D)	380 × 346 × 559 mm (15" × 13.6" × 22")
Operating temperature range	4.5–35°C (40–95°F)
Relative humidity	10–90% RH, non-condensing

¹ based on a single analyzer

² based on a group of analyzers

Ordering information

2.921.1410 NIRS XDS RapidLiquid Analyzer

Comprised of:

- 1.9210.010 NIRS XDS Monochromator
- 1.9210.410 NIRS XDS RapidLiquid Module
- 6.7400.000 NIRS XDS accessory kit
- 8.9218.005EN Manual for NIRS XDS RapidLiquid Analyzer

Requires Vision Air software (select one of the following versions)

- 6.6072.208 Vision Air 2.0 Complete
- 6.6072.207 Vision Air 2.0 Network Complete
- 6.6072.209 Vision Air 2.0 Pharma Complete
- 6.6072.210 Vision Air 2.0 Pharma Network Complete

Requires certified standards

- 6.7450.040 NIRS transmission wavelength calibration standard

Optional certified standards

- 6.7450.050 NIRS transmission standard, set of 6 (for the regulated environment)
- 6.7450.060 NIRS transmission wavelength verification standard

Accessories

- 6.7401.040 NIRS XDS quartz cuvette, screw top, 20 mm pathlength
- 6.7401.110 NIRS XDS quartz cuvette, open top, 0.5 mm pathlength (NIRS XDS spacer 6.7403.110 required)
- 6.7402.000 NIRS disposable glass vials, 8 mm (250 pcs.)
- 6.7402.010 NIRS disposable glass vials, 4 mm (200 pcs.)
- 6.7403.000 NIRS XDS spacer for disposable glass vials, 8 mm
- 6.7403.010 NIRS XDS spacer for disposable glass vials, 4 mm
- 6.7403.110 NIRS XDS spacer for quartz cuvettes, open top, or quartz cuvettes, screw top, 0.5 mm pathlength
- 6.7403.180 NIRS Spacer for 12.5 mm cuvette
- 6.7401.200 NIRS 12.5 mm quartz cuvette 1 mm
- 6.7401.210 NIRS 12.5 mm quartz cuvette 2 mm
- 6.7401.220 NIRS 12.5 mm quartz cuvette 5 mm
- 6.7401.230 NIRS 12.5 mm quartz cuvette 10 mm
- 6.7401.300 NIRS 12.5 mm quartz cuvette flow 0.5mm
- 6.7401.310 NIRS 12.5 mm quartz cuvette flow 1 mm
- 6.7401.320 NIRS 12.5 mm quartz cuvette flow 2 mm
- 6.7401.330 NIRS 12.5 mm quartz cuvette flow 5 mm
- 6.7401.340 NIRS 12.5 mm quartz cuvette flow 10 mm

www.metrohm-nirs.com