NIRS XDS RapidContent Analyzer



Fast, non-destructive analyses of solid and liquid substances



The NIRS XDS RapidContent Analyzer enables straightforward, non-destructive analyses of solid and liquid substances and formulations. The iris provides for exact centering of the sample increasing the reproducibility of the analysis. A diffuse reflector, made of gold, makes measuring liquid samples possible. The NIRS XDS RapidContent Solids Module extends the scope of application to almost any form of solid sample; whether it be in the form of fine powders, coarser granulates, pellets, or flakes.

The NIRS XDS RapidContent Analyzer is ideal for:

- straightforward, non-destructive analyses of nonhomogenous solids
- determining the identity and quality of individual
- 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 results at the press of a button
- Convenient sample materials can be identified in their original packaging (bags, vials, etc.)

Key features

- Optimal sample analysis by adapting the measuring spot to the diameter of the sample vials
- 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	Reflection and transflection
Sample interface	Direct analysis
Wavelength range	400–2,500 nm
Measuring module	Hot-swappable
Detectors	Silicon (400–1,100 nm), lead sulfide (1,100–2,500 nm)
Data collection speed	2 scans/s
Data point interval	0.5 nm
Wavelength accuracy	< 0.05 nm (SRM 1920)
(currently recognized standard)	< 0.05 Hill (SKW 1920)
Wavelength precision ¹	< 0.005 nm
Wavelength precision ² (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)	
400-700 nm	< 50 micro AU
700–2,500 nm	< 20 micro AU
Weight	38.0 kg (83.0 lbs)
Dimensions (W \times H \times 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

2.921.1110 NIRS XDS RapidContent Analyzer

Comprised of:

1.921.0010	NIRS XDS Monochromator
1.921.0110	NIRS XDS RapidContent Module
6.7425.000	NIRS XDS iris
6.7400.000	NIRS XDS accessory kit
2 921 2001FN	Manual for NIRS XDS RapidContent Analyzer

2.921.1120 NIRS XDS RapidContent Solids Analyzer

Comprised of:

1.921.0010	NIRS XDS Monochromator
1.921.0120	NIRS XDS RapidContent Solids Module
6.7425.000	NIRS XDS iris
6.7400.000	NIRS XDS accessory kit
6.7402.040	NIRS XDS coarse granular sample cell
6.7410.000	NIRS XDS tray for reflection standard
8.921.8001EN	Manual for NIRS XDS RapidContent 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 (select one of the following)

6.7450.000	NIRS reflection standard, set of 2
6.7450.010	NIRS reflection standard, set of 7 (for the regulated environment)

Accessories

6.7400.010	NIRS liquid sample kit transflection (6 transflection vessels, 3 diffuse reflectors, gold,
	with total pathlengths of 1 mm, 2 mm, and 4 mm)
6.7401.000	NIRS transflection vessel, optically flat
6.7402.020	NIRS disposable backs for 6.7402.030, 100 pcs.
6.7402.030	NIRS mini sample cups, 10 pcs. incl. 100 disposable backs
6.7420.000	NIRS diffuse reflector, gold, 1 mm total pathlength
6.7420.010	NIRS diffuse reflector, gold, 2 mm total pathlength
6.7420.020	NIRS diffuse reflector, gold, 4 mm total pathlength

www.metrohm-nirs.com

