

Premier performance in a value package

Fast, accurate, versatile XRF analysis

The performance-leading Thermo Scientific™ Niton™ XL2 GOLDD analyser offers premier performance and advanced electronics while maintaining the point-and-shoot simplicity that is the hallmark of all of our x-ray fluorescence (XRF) instruments. With our groundbreaking GOLDD™ technology, your analytical capabilities are taken to a whole new level. The direct benefits to you include: real-time results, light element analysis, and advanced performance in our value package.

The Niton XL2 GOLDD analyser also includes a standard integrated camera to ensure accurate positioning on the area of interest to capture and store an image for review or inclusion in reports.

Ergonomically designed and featuring daylight-readable icons, the Niton XL2 GOLDD incorporates customisable menus, multiple language options, and a standard analytical range of up to 30 elements from magnesium to uranium. Sealed against moisture and dust with 100% embedded software tools, these analysers are lightweight yet ruggedly built to withstand the harshest environments – in the field or on the shop floor.

The Niton XL2 GOLDD analyser provides you with many distinct advantages:

- Light element detection (Mg, Al, Si, P, S) without helium purge vacuum
- From turn on to trigger pull to near instantaneous results
- Very easy to use – even by non-technical personnel
- Rugged design for the most challenging industrial environments
- Standard integrated camera for accurate positioning of analysis area
- Completely nondestructive test

The GOLDD advantage

GOLDD technology delivers vast improvements in sensitivity or measurement times – as much as 10-times faster than conventional Si-PIN detectors and up to 3-times more precise than conventional silicon drift detectors (SDD). We achieved this improvement by combining the Niton XL2 GOLDD 45kV, 100 μ A x-ray tube, closely optimised geometry, and patented signal processing hardware and software. These advantages are coupled with our drift detector, one of the largest area drift detectors that is commercially available in a handheld XRF analyser, providing you with superior performance in the form of faster analysis and lower detection limits.

The final product is the Niton XL2 GOLDD – a more versatile and technologically advanced handheld XRF analyser, designed without compromise to make you more successful.



With its unparalleled accuracy, you can be confident that the Niton XL2 GOLDD won't misidentify value, grade, or residuals. The Niton XL2 GOLDD stands alone with its many standard features and available options. By utilising the standard Thermo Scientific Niton Data Transfer (NDT©) PC software suite to customise the instrument, you can set operator permissions, generate custom reports, print certificates of analysis personalised with your own company logo, or remotely monitor and operate the instrument hands-free from your PC.

Integrated USB and Bluetooth® communications provide direct data transfer to your PC or networked storage device, eliminating the cumbersome data synchronisation procedures required by Windows Mobile®-based XRF analysers.

Niton XL2 GOLDD Analysers

Whether you need an analyser for metal alloy analysis, mining operations, or environmental screening, the performance-leading Niton XL2 GOLDD provides cost-effective high-speed performance, point-and-shoot simplicity, integrated camera, and the cutting-edge technology that you have come to expect from industry-leading Thermo Scientific Niton XRF analysers.



Product Specification

Weight	3 lbs 5.8 oz (1.53 kg)
Dimensions	10.25 x 11 x 4 in. (256 x 275 x 100 mm)
Tube	Ag anode 45 kV maximum, 100 uA maximum
Detector	Geometrically Optimized Large Area Drift Detector (GOLDD)
System Electronics	400 MHz ARM 11 CPU 300 MHz dedicated DSP 80 MHz ASICS DSP for signal processing 4096 channel MCA 64 MB internal system memory/128 MB internal user storage
Display	Fixed angle, colour, touch-screen display
Standard Analytical Range	Up to 30 elements from Mg to U (varies by application)
Data Storage	Internal >10,000 readings with spectra
Data Transfer	USB, Bluetooth™ and RS-232 serial communication
Security	Password-protected user security
Mode (varies by application)	Alloy Modes: Metal Alloy, Electronics Alloy, Precious Metals (Varies by application) Bulk Modes: Mining, Soil Plastic Modes: RoHS Plastics, Toy & Consumer Goods Plastics, TestAll™, Painted Products Limited Custom Modes: Upon request (based on application feasibility)
Data Entry	Touch-screen keyboard User-programmable pick lists Optional wireless remote barcode reader
Standard Accessories	Integrated camera Locking shielded carrying case Shielded belt holster Two 6-cell lithium-ion battery packs 110/220 VAC battery charger/ AC adaptor PC connection cables (USB and RS-232) Niton Data Transfer (NDT) PC software Safety lanyard Check samples/standards
Optional Features and Accessories	Engine Guard protects critical detection components and minimizes operational downtime Thermo Scientific portable test stand, stationary (bench-top) stand, mobile test stand, Thermo Scientific Field Mate Welding mask Soil testing guard
Licence/Registration	Varies by region. Contact Niton UK

Thermo Scientific Niton XL2 GOLDD analysers represent just one of our handheld analyser solutions, which include XRF tools for metal alloy identification, mining and exploration, lead-based paint testing, RCRA metals in soil, toy and consumer goods testing, RoHS and WEEE compliance screening, and many other analysis needs.

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