



Thermo Scientific Niton XL2 x-ray tube-based x-ray fluorescence (XRF) analyzers are purpose-built for your demanding applications. When speed, accuracy, and reliability count, our perfect combination of hardware, software, and direct industry experience helps meet your specific analytical requirements. The Niton XL2 – the practical solution from the pioneer in handheld XRF instrumentation. Leadership through excellence in innovation.

Thermo Scientific Niton XL2 XRF Analyzer



Thermo Scientific Niton XL2 analyzers provide you with many distinct advantages:

- **Very easy to use – even by non-technical personnel**
- **Rugged design for real-world industrial environments**
- **Truly nondestructive test with near instantaneous results**
- **From turn on to trigger pull to results in seconds**
- **Confident analysis with technology from the industry leader**



Eliminate the guesswork – verify metal alloys for manufacturing quality assurance.

Built for the Way You Work

The value choice Thermo Scientific Niton XL2 analyzer offers high performance and advanced electronics while maintaining the point-and-shoot simplicity that has been the hallmark of all of our XRF instruments. Sealed against moisture and dust with 100% embedded software tools, these analyzers are lightweight yet ruggedly built to withstand the harshest environments – in the field or on the shop floor.

Ergonomically designed and featuring daylight-readable icons, the Niton® XL2 incorporates customizable menus, multi-language options, and a standard analytical range of more than 25 elements from sulfur to uranium.

The Instrument of Choice

The Niton XL2 is the instrument of choice when you require accuracy, precision, and ease of use. It is the ideal instrument to:

- Analyze metal alloys for scrap recycling or final product QC
- Carry out grade control, plant operations, and near-mine exploration
- Screen electronics and consumer goods for lead

For example, the Niton XL2 is the definitive tool for scrap metal recycling. It provides immediate nondestructive chemical analysis of alloy materials from titanium to nickel, as well as achieving superior performance for tramp and trace element analysis. With its unparalleled accuracy, you can be confident that the Niton XL2 won't misidentify value, grade, or residuals.



With point-and-shoot simplicity, you can view the alloy grade and chemistry on the built-in, color, touch-screen display.

The Niton XL2 stands far above the competition, with its many standard features and available options. Taking advantage of the standard Thermo Scientific Niton Data Transfer (NDT[®]) PC software suite to customize the instrument, you can set operator permissions, generate custom reports, print certificates of analysis personalized 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 synchronization procedures required by PDA-based XRF analyzers.

Niton XL2 Analyzers

Whether you need an analyzer for metal alloy analysis, mining operations, or electronics and consumer goods screening, the value-choice Niton XL2 provides cost-effective high-speed performance, point-and-shoot simplicity, and the cutting-edge technology that you have come to expect from industry-leading Thermo Scientific Niton XRF analyzers.

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

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Thermo Scientific Niton XL2 Specifications

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, 80 uA maximum
Detector	High-performance semiconductor
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, color, touch-screen display
Standard Analytical Range	>25 elements from S 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 Bulk Modes: Mining, Soil Plastic Modes: N/A Custom Modes: Upon request (based on application feasibility)
Data Entry	Touch-screen keyboard User-programmable pick lists Optional wireless remote barcode reader
Standard Accessories	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	Thermo Scientific portable test stand, stationary (bench-top) stand, mobile test stand Welding mask Soil testing guard
Licensing/Registration	Varies by region. Contact your local distributor.
Compliance	CE, RoHS

XRF Analyzers

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