

# Thermo Scientific Niton XL2 XRF Analyzer

The practical solution from the pioneer in handheld XRF instrumentation.

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

- Precise elemental analysis of alloy materials
- 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



## 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 is the hallmark of all our x-ray fluorescence (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.

The Niton XL2 analyzer 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 incorporates customizable menus, multiple 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 to ensure 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

The Niton XL2 is the definitive tool for scrap metal recycling. It provides immediate nondestructive chemical analysis of alloy materials from titanium to nickel. With its unparalleled accuracy, you can be sure that the Niton XL2 will precisely identify value, grade, or residuals.



Niton XL2: 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. By utilizing the standard Thermo Scientific Niton Data Transfer (NDT<sup>®</sup>) 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<sup>®</sup> communications provide direct data transfer to your PC or networked storage device, eliminating the cumbersome data synchronization procedures required by Windows Mobile<sup>®</sup>-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 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<br>300 MHz dedicated DSP<br>80 MHz ASICS DSP for signal processing<br>4096 channel MCA<br>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 <sup>™</sup> , and RS-232 serial communication                                                                                                                                                                                                                                  |
| Security                                   | Password-protected user security                                                                                                                                                                                                                                                               |
| Mode<br>(Varies by application)            | Alloy Modes: Metal Alloy, Electronics Alloy, Precious Metals<br>Bulk Modes: Mining, Soil<br>Plastic Modes: RoHS Plastics, Toy & Consumer Goods Plastics, TestAll <sup>™</sup> , Painted Products                                                                                               |
| Data Entry                                 | Touch-screen keyboard<br>User-programmable pick lists<br>Optional wireless remote barcode reader                                                                                                                                                                                               |
| Standard Accessories                       | Integrated camera<br>Locking shielded carrying case<br>Shielded belt holster<br>Two 6-cell lithium-ion battery packs<br>110/220 VAC battery charger/ AC adaptor<br>PC connection cables (USB and RS-232)<br>Niton Data Transfer (NDT) PC software<br>Safety lanyard<br>Check samples/standards |
| Optional Features and Accessories          | Engine Guard protects critical detection components and minimizes operational downtime<br>Thermo Scientific portable test stand, stationary (bench-top) stand, mobile test stand<br>Welding mask<br>Soil testing guard                                                                         |
| Licensing/Registration                     | Varies by region. Contact your local distributor.                                                                                                                                                                                                                                              |
| Compliance                                 | CE, RoHS                                                                                                                                                                                                                                                                                       |

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.



[thermoscientific.com/niton](http://thermoscientific.com/niton)

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