

# Rugged and reliable

## Fast, accurate, versatile XRF analysis

When durability, performance and productivity are top of mind, industrial businesses rely on the Thermo Scientific™ Niton™ XL2 Plus handheld XRF analyser. Offering superior analysis and enhanced robustness, the Niton XL2 Plus is built for the way you work. Founded on a reputation of dependability and reliability, you can count on the Niton XL2 Plus for years to come.

### Applications

- Verification of metals and alloys in manufacturing
- Quality Assurance testing for positive material identification
- Point-and-shoot sorting at scrap recycling operations
- Coating thickness measurements from single element layers
- Precious metal assay of bullion and jewelry
- Geochemical analysis for ore trading and grade control
- On-site heavy metal screening of polluted soils
- Lead in paint inspection of industrial facilities
- Screening of hazardous substances in consumer goods

### Analytical performance

Designed to provide fast analysis and low detection limits, the Niton XL2 Plus ensures reliable results. Powered by a proprietary 2W x-ray tube, dynamic current adjustment and a next generation silicon drift detector, the Niton XL2 Plus delivers optimal sensitivity for each measurement.

Leveraging a smart Fundamental Parameter (FP) calibration, the Niton XL2 Plus corrects for sample matrix effects to generate accurate results.

### Purpose built

Maximising form and function, the Niton XL2 Plus is engineered to conquer your toughest environments.

Analyse sharp items while minimising puncture risk with standard Detector ProGuard protection. Backed by a certified IP54 rating, the Niton XL2 Plus is sealed against moisture and dust, ensuring uninterrupted operation, even in the harshest of industrial environments.

### Functionality

A simplified application interface eases navigation and maintains point-and-shoot simplicity. Utilise touchscreen functionality or optional directional keys for speedy navigation. A hot-swap battery keeps you up and running when it's time to replace a low battery. While an integrated micro camera and nose guard alignment provide precise sample positioning for each measurement.



The Thermo Scientific™ Niton™ XL2 Plus handheld XRF analyser.

### Versatility

Whether in the field, or on the shop floor, the Niton XL2 Plus keeps you primed and prepped for the most challenging industrial environments. Operators have the ability to scan a broad range of materials for diverse applications. Identify pure metals and alloys, detect tramp elements, or obtain geochemical data- the Niton XL2 Plus is up for the challenge.



# Product Specification

Weight	3.4 lbs with battery (1.53 kg)
Dimensions	10 x 10.8 x 3.9 in (25.6 x 27.5 x 10 cm)
X-Ray Source	X-Ray Tube: Ag anode (6-45kV, 1-200uA, 2W max) Dynamically adjustable current for optimal sensitivity on every analysis
Detector	Silicon drift detector (SDD) Detector ProGuard protection included
Spot Size	8 mm collimation
Analytical Range	Mg-U
Calibration Modes	General Metals, Precious Metals, Coatings, Mining, Soils, Electronic Alloys, Plastics, Industrial Lead in Paint, Lead in Paint Products
Libraries	Default alloy libraries based on SAE, AISI, ASTM, AA standards Users may create and edit libraries
System Check	Built-in standardisation via automatic system check
IP Rating	IP54 (splash and dust proof)
Operating Environment	Temperature: -10°C to 50°C Humidity: 0% to 80% relative humidity non-condensing
Display	Fixed angle, colour, resistive touchscreen display
Power	7.4V lithium-ion battery, or 12V DC, 3A, 36W power supply Hot swap functionality keeps analyser powered during battery replacements
Camera	Integrated CCD micro camera for locating and recording measurement positions
Global Positioning System	Optional external GPS (via Bluetooth)
Bluetooth	Supports print functionality, external GPS connectivity and barcode reader
Memory / Data Storage	64 MB internal system memory / 128 MB internal user storage Stores approximately 10,000 readings with spectra (fewer if images are saved)
Data Entry	Touchscreen keyboard User customisable data entry Optional wireless remote barcode reader
Data Transfer	USB, Bluetooth, and RS-232 serial communication
Operating System	Proprietary
Support Software	Niton Data Transfer (NDT) PC software
Security	Password-protected user security
Languages	English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Italian, Czech
Standard Accessories	Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/ AC adaptor Check samples Belt holster Safety lanyard PC connection cables (USB and RS-232)
Optional Accessories	Thermo Scientific™ portable test stand Thermo Scientific™ mobile test stand Thermo Scientific™ field mate test stand Thermo Scientific™ soil guard
Compliance	CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1, UL 61010-1
Licensing / Registration	Varies by region. Contact Niton UK

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