

The Future is in Your Hands

Why wait?

Faster, powerful and expanded alloy ID is within your reach.

The Niton XL5 analyzer verifies a wider range of metal alloys faster and more accurately than ever before. Its sleek, compact design enables operators to greatly expand field use, improve QA/QC and increase confidence in risk-management practices.

Furthermore, you can trust that the Thermo Scientific Niton family stands behind you, ready to support your needs and deliver maximum performance for your applications.



Specifications	
Weight	2.8 lbs with battery (1.3 kg)
Dimensions	9.54 x 8.19 x 2.67 in. (242.56 x 208.17 x 67.9mm)
Tube	Ag anode (6-50kV, 500uA max, 5W max) Dynamically adjustable current for optimal sensitivity for every analysis
Detector	Geometrically Optimized Large Area Drift Detector (GOLDD)Proprietary detector with up to 180,000 cps throughput Typical Resolution: 150 ev- 185 eV depending on shaping time used
System Electronics Processor	iMX6 quad core ARM A9 running at 800 MHz 80 MHz ADC ASIC for digital pulsed processing 4096 channel MCA 512 MB internal system memory / 4 GB industrial grade storage
Display	Tilting, color, touch-screen display
Standard Alloy Analytical Range	More than 30 common elements for rapid alloy identification Ultra-low light element detection
Data Storage	Internal > 20,000 readings with spectra Assumes 2GB of storage; 100kB per spectrum
Data Transfer	USB, Bluetooth®
Global Positioning	GPS data included with sample information
Security	Password-protected user security
Mode	Alloy Modes: Metal Alloy
Data Entry	Touch-screen keyboard User-programmable pick lists
Standard Accessories	Integrated CCD camera for locating and storing images Locking shielded carrying case Two lithium-ion battery packs 110/220 VAC battery charger/AC adaptor PC connection cables (USB) NitonConnect PC software Safety lanyard Check samples/standards
Optional Features and Accessories	3mm small-spot collimation Thermo Scientific™ portable test stand Belt Holster HotFoot Jacket HotWork stand off
Licensing/Registration	Varies by region. Contact your local distributor.
Compliance	CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010

www.thermoscientific.com/portableid

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Thermo Scientific
Niton XL5 Analyzer

Fast, accurate, expanded alloy ID
with the future of handheld XRF

Welcome to the Future of Handheld XRF

Alloy verification is critical. Recyclers, Fabricators and PMI Inspectors must accurately and quickly determine elemental composition and alloy grade, often in challenging working environments.

Introducing the Thermo Scientific™ Niton™ XL5 analyzer -- the lightest, smallest and most powerful XRF alloy analyzer in the market. Part of the Niton family of industry-leading instruments, Niton XL5 offers performance, portability and speed never seen in a handheld analyzer until now.

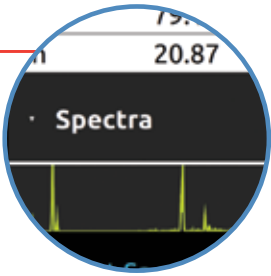


Advanced Analytical Performance

Faster, real-time data

Powered by advanced electronics, Niton XL5 generates elemental results faster and more accurately than ever before. Results are displayed in real time, allowing the operator to see material-chemistry data as measurements are being calculated.

Niton XL5 optimizes the geometry between the xray source detector and the sample, improving limits of detection and shortening measurement times -- especially for light elements. A wider alloy library increases coverage, and an internal calibration standard ensures accuracy.



Increased Productivity

Reduced operator fatigue

At 2.8 lbs. (1.3 kg.), Niton XL5 is the lightest and smallest handheld XRF analyzer available for elemental composition and alloy ID. Light weight and modern ergonomics reduce operator fatigue in field environments such as rope access PMI.

A micro and macro camera allows more precise positioning of the analyzer on the sample while capturing an entire sample image for better record keeping.



Expanded Field Use

Ready when you are

Compact geometry improves portability and overall handling. Sleek, industrial design enables the operator to reach awkward or tight welds, corners and joints for critical alloy measurements and more comprehensive inspections in the field.

Niton XL5 ships with a hot-swappable battery so the analyzer is ready when you are. Fully charged in 4 hours on DC power, the battery can be trickle charged with a USB connection or 12V DC automobile power source. The Niton XL5 is not just for metal analysis, but provides expanded use in measuring scale, sludge, oil, powders and slurries.

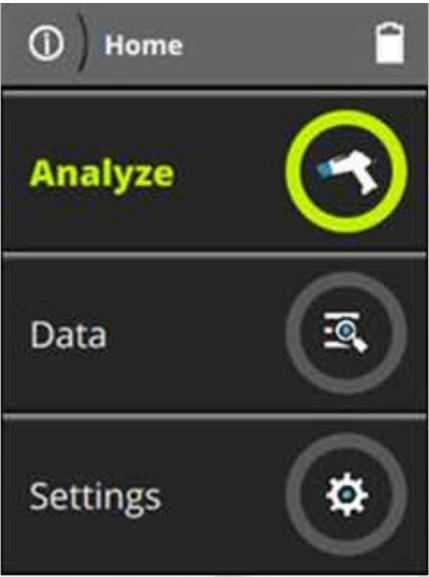


Vivid Navigation

New icons and tilting touch screen

Intuitive, simplified software with customizable workflow solutions creates a significantly improved user experience. A tilting, color touchscreen with swipe functionality enables viewing from multiple angles.

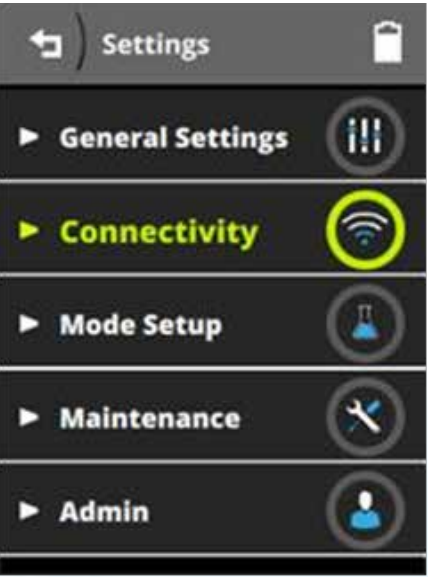
On-device user management software supports multiple user profiles. The Niton XL5 provides easy access to scanning (Analyze), reviewing data (Data) and device settings (Settings) and results are presented concisely for quicker and easier interpretation. Custom profiles can be created for specific analysis requirements, or manager/operator profiles, etc.



Home screen

#1,118		
Main		
Low		
5 sec		
Light		
SS-309		
0.95		
Excellent		
Ele	%	±2σ
Fe	61.700	0.685
Cr	22.754	0.413
Ni	12.556	0.505
Mn	1.657	0.303
LEC	0.498	0.000
Mo	0.493	0.027
Nb	0.093	0.012
Below LOD		
±3σ		

Data scan results screen



Analyzer device settings screen