Thermo Scientific Niton XL5 Analyzer

Handheld XRF for metal alloy analysis

Applications for Niton XL5 include:

- Verification of metal alloys in manufacturing operations
- Non-destructive field inspections for positive material identification
- Point-and-shoot sorting at scrap yards and recycling operations

Introduction

Metal alloy verification is critical to the success of many industrial businesses. Metal fabricators, manufacturers and recyclers must quickly and accurately verify composition and grade, often in difficult working environments. The Thermo Scientific™ Niton™ XL5 is a modern XRF handheld analyzer designed to respond to industry requirements, maximizing performance and productivity.

Size and Weight

In the smallest footprint available, and weighing an industry-leading 2.8 pounds (1.3 kg.) including battery, the Niton XL5 analyzer makes light work of heavy industrial tasks, even under the most challenging conditions. This reduces operator fatigue and increases productivity.

Rapid Results

Niton XL5 generates fast and accurate results. Results are displayed in real time, enabling faster decisions.

Design

Compact geometry improves ergonomics and overall handling of the analyzer, enabling the operator to get into tight or awkward testing spots, greatly expanding field use. Bluetooth and GPS enhance data management.

Navigation

Vivid new icons ease navigation and configuration. Swipe- and touch-screen functionality even with a gloved hand.

Analytical Performance

Wider alloy coverage and lower limits of detection -- especially for light elements -- allow operators to scan a broader range of incoming or installed materials more quickly.

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The Thermo Scientific Niton XL5 in use, analyzing parts utilized in metal fabrication and manufacturing processes.

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

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