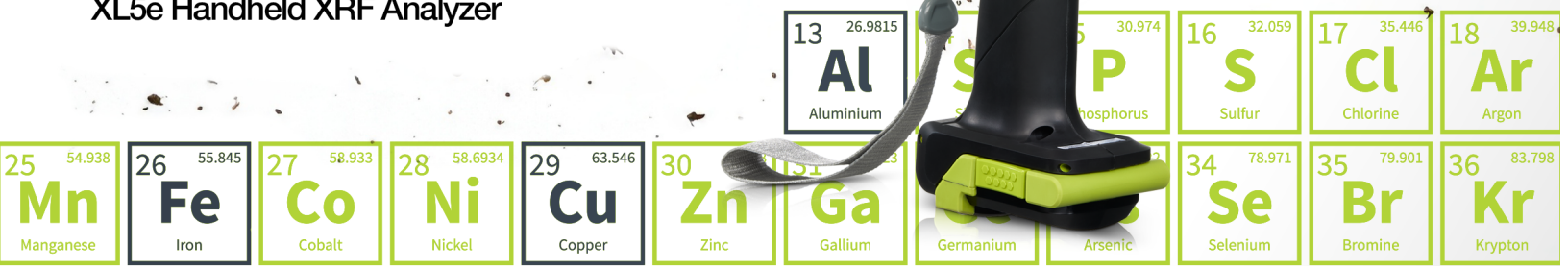
ThermoFisher SCIENTIFIC

# HIGH-END DETECTION WITHIN REACH

**Thermo Scientific Niton XL5e Handheld XRF Analyzer**


## Applications

- Verification of metals and alloys in manufacturing operations
- Non-destructive field inspections for positive material identification
- Point-and-shoot sorting at scrap recycling operations
- Real-time geochemical analysis for mining exploration
- On-site heavy metal screening of polluted soils
- Screening for hazardous substances in consumer goods

### Analytical performance

Designed to return lab-quality results, the Thermo Scientific™ Niton™ XL5e Handheld XRF Analyzer offers low limits of detection that allow operators to scan a broad range of materials for diverse applications. Identify pure metals and alloys, obtain geochemical data or screen for heavy metals. From metals to mining, and everything in between, this analyzer is ready to work.

### Rapid results

Powered by a 5W X-ray tube, the Niton XL5e analyzer generates fast and accurate results. This dynamic X-ray tube and current tube adjustments help ensure optimum sensitivity for each measurement, while a graphene window enhances the detection of light elements. Results are displayed in real time, enabling you to make quicker decisions. And with a standard system health check designed to verify operating parameters, your device will operate smoothly.

### Size and weight

Make light work of heavy industrial tasks with the Niton XL5e analyzer. Its small footprint and featherweight design reduce operator fatigue while increasing productivity.

### Design

Tight spots are no match for the Niton XL5e analyzer. Discover expanded field use with improved compact geometry and ergonomics. Standard ProGuard detector protection also reduces risk when measuring sharp items.

### Functionality

Vivid icons and an application interface ease navigation and configuration. Swipe and touchscreen functionalities work even with a gloved hand, optional directional keys provide added usability, and a hot swap battery keeps you up and running when it's time to replace a low battery. A micro camera also enables precise sample positioning and collects images for better record keeping. Finally, a Wi-Fi connection automatically transmits data from your device to your computer.

thermo scientific

| Product Specifications | |
|---|---|
| **Weight** | 2.8 lbs. with battery (1.3 kg) |
| **Dimensions** | 9.54 x 8.19 x 2.67 in.<br>(242.56 x 208.17 x 67.90 mm) |
| **X-Ray Source** | **X-Ray Tube:** Ag anode<br>(6-50kV, 0-500uA, 5W max)<br>**Filter:** Six (6) position filter wheel for enhanced spectral range coverage<br>**Current:** Dynamically adjustable current for optimal sensitivity |
| **Detector** | High count rate, high resolution, fast silicon drift detector (1 µm graphene window)<br>Detector ProGuard protection included |
| **Spot Size** | 8 mm collimation |
| **Analytical Range** | Mg-U (ultra-low light element detection) |
| **Calibration Modes** | General Metals, Light Metal Quick Sort, Mining, Soils, Plastics |
| **Libraries** | Default alloy libraries based on SAE, AISI, ASTM, AA, DIN, GB standards<br>Users may create, clone, and edit libraries |
| **System Check** | Built-in standardization and health check verifies system integrity and operating conditions |
| **IP Rating** | IP54 (splash and dust proof) |
| **Operating Environment** | **Temperature:** -10 to 50°C<br>(Automated internal fan for operation at elevated temperatures)<br>**Humidity:** 10 to 90% relative humidity non-condensing |
| **Display** | Fixed, color, resistive touchscreen display |
| **Power** | 12V lithium-ion battery, or 12V DC, 3A, 3.6W power supply<br>Hot swap functionality keeps analyzer powered during battery replacements |
| **Micro Camera** | Integrated CCD micro camera for locating and recording measurement positions |
| **Bluetooth** | Supports print functionality |
| **Memory/Data Storage** | 512 MB internal system memory / 16 GB industrial grade storage<br>Stores approximately 130,000 readings with spectra (fewer if micro images are saved) |
| **Data Entry** | Touchscreen keyboard<br>User customizable data entry<br>Optional wireless remote barcode reader |
| **Data Transfer** | Wi-Fi, USB-c |
| **Operating System** | Linux |
| **Support Software** | NitonConnect PC software |
| **Security** | Password-protected user security |
| **Languages** | English, Chinese, Spanish, Portuguese, Russian, Japanese, German, Korean, French, Turkish, Italian |
| **Standard Accessories** | Locking shielded carrying case<br>Two (2) lithium-ion battery packs<br>One (1) 110/220 VAC battery charger / AC adaptor<br>Check samples<br>Safety lanyard<br>PC connection cable (USB) |
| **Optional Accessories** | Thermo Scientific™ portable test stand<br>Thermo Scientific™ mini test stand<br>Thermo Scientific™ backscatter shield<br>Thermo Scientific™ hotwork stand off<br>Thermo Scientific™ soil guard<br>Thermo Scientific™ belt holster<br>Bluetooth printer |
| **Compliance** | Compliance CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010 |
| **Licensing/Registration** | Varies by region, contact your local distributor |

Learn more at **thermofisher.com/nitonXL5e**