

Niton® XL3t GOLDD+ Analyzer¹



The Niton XL3t analyzer combines advanced electronics and materials technology with dynamic features and versatile x-ray tubes in a handheld X-Ray Fluorescence (XRF) instrument. The direct benefits include: real-time results, advanced light element analysis, and ultimate performance. The hand-held unit has extraordinary speed and precision, and an integrated, tilting, color, touch-screen display along with customizable menus for ease of use. The Niton® XL3t GOLDD+ analyzer is lightweight, ruggedly constructed, and fast. The GOLDD technology means improvements in sensitivity or measurement times – as much as 10-times faster than conventional Si-PIN detectors, and up to 3-times more precise than conventional silicon drift detectors (SDD). The technology combines an improved Niton XL3t 50kV, 200 μ A x-ray tube, closely optimized geometry, and patented signal processing hardware and software. The unit also has a proprietary drift detector,

one of the largest area drift detectors that is commercially available in a handheld XRF analyzer, providing faster analysis and lower detection limits.

For SMCRA use:

The instrument's low detection limits allow you to identify anomalies near the averages naturally found in the earth's crust, something previously not possible with handheld XRF. Similarly, you will experience improved detection limits for all elements in environmental applications, including target elements such as chlorine and sulfur in sediment, and arsenic in soil. The improved limits of detection put the Niton XL3t GOLDD+ on par with most laboratory grade systems used in testing consumer products for toxic elements.



¹ From: Thermo Scientific, Product Specifications at [Thermo Scientific Niton XL3t GOLDD+ XRF Analyzer](#)