News

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Thermo Fisher Scientific Launches Handheld Niton® XRF Analyzer with Large Area Drift Detector

New Thermo Scientific Niton XL3t Series Analyzers with GOLDD™ Technology Provide Much Faster Testing Speed and Dramatically Improved Analytical Performance

BILLERICA, Mass. (November 10, 2008) – Thermo Fisher Scientific Inc., the world leader in serving science, today announced the Thermo Scientific Niton XL3t Series with geometrically optimized large area drift detector (GOLDD) technology. Groundbreaking GOLDD technology delivers improvements in light element detection, overall sensitivity and measurement times – as much as 10 times faster than conventional Si-PIN detectors, and up to 3 times more precise than conventional smaller, silicon drift detectors. Thermo Fisher Scientific is the world's leading manufacturer of handheld x-ray fluorescence (XRF) analyzers.

Thermo Fisher was able to surpass the performance of conventional Si-PIN and SDD detectors by combining the award-winning Niton XL3t's 50kV, 2-watt x-ray tube, closely optimized geometry and patented signal processing hardware and software. When combined with our proprietary large area drift detector, it creates GOLDD technology, delivering superior performance in the form of faster analysis and lower detection limits. Further, this innovation allows light element detection of magnesium (Mg), aluminum (Al), silicon (Si), phosphorus (P) and sulfur (S) without helium or vacuum purging.

"The Niton XL3t with GOLDD technology brings true lab-quality performance to a handheld XRF analyzer. Although it's easy to use and delivers fast analysis, it is extremely accurate, precise and can measure light elements without helium or vacuum assistance," said Bob Wopperer, Thermo Fisher's director of business development for Thermo Scientific Niton Analyzers. "What's more, it is the ideal multi-purpose instrument, whether you need to analyze metal alloys, carry out mining exploration and mapping, detect soil contaminants, or screen toys, electronics and consumer goods for prohibited substances."

Wopperer continued, "For example, the Niton XL3t GOLDD is the definitive tool for scrap metal recycling, making it easier to sort aluminum, titanium, and bronze alloys, as well as achieving superior performance for tramp and trace element analysis. And in mining exploration, the instrument's low detection limits are designed to allow geologists to identify anomalies at or below the averages naturally found in the earth's crust, something previously not possible with handheld XRF."

About Niton XL3 Series Analyzers

The Niton XL3 Series analyzers with GOLDD technology incorporate 80 MHz real-time digital signal processing and dual state-of-the-art embedded processors for computation, data storage, live video processing, and communication and come with many standard features and available options.

The standard Niton Data Transfer (NDT©) Software, a suite of data management utilities, allows users to:

- Customize the instrument

- Set user permissions
- Generate custom reports
- Print certificates of analysis personalized with a company's own logo
- Remotely monitor and operate the instrument hands-free from a PC or PDA.

Integrated USB and Bluetooth™ communications provide direct data transfer to a PC or networked storage device, eliminating the cumbersome data synchronization procedures required by PDA-based XRF analyzers. The NDT file format preserves and protects the data from each sample analysis, ensuring that this data is not unintentionally or intentionally compromised.

Additionally, users can locate areas of interest on a sample using the integrated color CCD camera and the optional integrated 3 mm small-spot collimation, and then store the test area image along with the analysis data. The Niton XL3 Series offers the only fully-integrated and environmentally-sealed tilting color touch-screen display for easy viewing of sample results in any position and under virtually all lighting conditions. Also, all Niton analyzers use third-generation lithium-ion batteries, providing the longest usage cycle of any portable XRF analyzer.

The Niton XL3 Series continues to be available in a range of configurations and with an assortment of optional features and accessories to suit a wide variety of analytical needs.

For more information, or to schedule an on-site demonstration, contact your local Niton Analyzers representative or contact Thermo Scientific Niton Analyzers directly at (800) 875-1578 (toll-free US), +1 978 670-7460, by e-mail at niton@thermofisher.com, or visit our website at http://www.thermo.com/niton.

Thermo Scientific is part of Thermo Fisher Scientific, the world leader in serving science.

About Thermo Fisher Scientific
Thermo Fisher Scientific Inc. (NYSE: TMO) is the world leader in serving science, enabling our customers to make the world healthier, cleaner and safer. With annual revenues of $10 billion, we have more than 30,000 employees and serve over 350,000 customers within pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies, as well as environmental and industrial process control settings. Serving customers through two premier brands, Thermo Scientific and Fisher Scientific, we help solve analytical challenges from routine testing to complex research and discovery. Thermo Scientific offers customers a complete range of high-end analytical instruments as well as laboratory equipment, software, services, consumables and reagents to enable integrated laboratory workflow solutions. Fisher Scientific provides a complete portfolio of laboratory equipment, chemicals, supplies and services used in healthcare, scientific research, safety and education. Together, we offer the most convenient purchasing options to customers and continuously advance our technologies to accelerate the pace of scientific discovery, enhance value for customers and fuel growth for shareholders and employees alike. Visit www.thermofisher.com.

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