

XL-PMI+ XRF Analyzer



Eliminate the guesswork—verify metal alloys for manufacturing quality assurance.

GE introduces the XL-PMI x-ray fluorescence (XRF) analyzers—powered by Thermo Fisher Scientific technology. Where low detection limits and high sample throughput are critical, our perfect combination of hardware, software, and direct industry experience helps meet your specific analytical requirements.

The XL-PMI Series is just another example of how we're improving the health of industry.

Breakthrough Technology—the XL-PMI+ Advantage

GE's XL-PMI+ analyzer combines advanced electronics and materials technology with dynamic features and the most versatile x-ray tubes ever used in a handheld XRF instrument. When this power is harnessed to our groundbreaking technology, it takes your analytical capabilities to a whole new level. The direct benefits to you include: real-time results, advanced light element analysis, and ultimate performance in our robust, proven design. From their extraordinary speed and precision to the integrated, tilting, color, touchscreen display and the customizable menus for ease of use, ergonomic XL-PMI analyzers are lightweight, ruggedly constructed, and fast.

What is the XL-PMI+ advantage? Our technology delivers vast improvements in sensitivity and 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). We achieved this improvement by uniquely combining an improved 50kV, 200 μ A x-ray tube, closely optimized geometry, and patented signal processing hardware and software. These advantages are coupled with our proprietary drift detector—one of the largest area drift detectors that is commercially available in a handheld XRF analyzer—providing you with superior performance in the form of faster analysis and lower detection limits. The final product is GE's XL-PMI+—a more versatile and technologically advanced handheld XRF analyzer, designed without compromise to make you more successful.

The Instrument of Choice

The XL-PMI+ is the instrument of choice when you require extreme accuracy, precision, and ease of use, with its faster analysis, higher precision, and the ability to measure light elements without helium or vacuum assistance. It is the ideal instrument to analyze metal alloys for industrial applications or final product QC. Additionally, you can achieve enhanced Mg-S performance with the optional He purge.



CCD camera and small-spot feature isolates and stores small sample area

GE's XL-PMI+ provides you with many distinct advantages:

- Superior light element detection (Mg, Al, Si, P, S) without helium purge or vacuum
- High count rate for lower detection limits and faster analysis
- True lab-quality performance in a handheld instrument, including tramp/trace elements

The XL-PMI+ stands alone with its many standard features and available options. You can pinpoint 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. Take advantage of the standard Thermo Scientific Niton Data Transfer (NDT®) PC software suite to customize the instrument. You can set user permissions, generate custom reports, print certificates of verification personalized with your own company logo, or remotely monitor and operate the instrument hands-free from your PC. Integrated USB and Bluetooth™ communications provide direct data transfer to your PC or networked storage device, eliminating the cumbersome data synchronization procedures required by Windows Mobile®-based XRF analyzers.



With point-and-shoot simplicity, you can view the alloy grade and chemistry on the built-in, color, touchscreen display.

XL-PMI+ XRF Analyzer Specifications

Weight	<3.0 lbs (1.3 kg)
Dimensions	9.6 x 9.05 x 3.75 in. (244 x 230 x 95.5 mm)
Tube	Ag anode (6-50 kV, 0-200 µA max)
Detector	Geometrically Optimized Large Area Drift Detector Proprietary detector with 180,000 throughput cps Resolution: 185 eV @60,000 cps @4µ sec shaping time
System Electronics	533 MHz ARM 11 CPU 300 MHz dedicated DSP 80 MHz ASICS DSP for signal processing 4096 channel MCA
Display	Tilting, color, touchscreen display
Standard Analytical Range	Up to 30 elements from Mg to U (varies by application)
Data Storage	Internal >10,000 readings with spectra
Data Transfer	USB, Bluetooth™, and RS-232 serial communication
Security	Password-protected user security
Mode (Varies by application)	Alloy Mode Bulk Modes Mining Mode Industrial Pb Paint Mode
Data Entry	Touchscreen keyboard User-programmable pick lists Optional wireless remote barcode reader
Standard Accessories	Locking shielded carrying case Shielded belt holster Two lithium-ion battery packs 110/220 VAC battery charger/AC adaptor PC connection cables (USB and RS-232) Niton Data Transfer (NDT) PC software Safety lanyard Check samples/standards
Optional Features and 3 mm small-spot accessories	Thermo Scientific SmartStand™ portable test stand Stationary (bench-top) test stand Mobile test stand Field Mate Thermo Scientific Extend-a-Pole™ extension pole Welding mask Thermo Scientific HotFoot™ hot surface adapter
Licensing/Registration	Varies by region. Contact your local distributor.

XL-PMI Analyzers

Whether you need an analyzer for incoming material inspection, verification of in-stock parts, or PMI of in-service process components, GE's XL-PMI series, powered by Thermo Fisher Scientific, raises the bar—combining outstanding analytical performance of lab-grade instrumentation with the high-speed performance, ease of use, and cutting-edge technology that you have come to expect from these industry leaders.

GE's XL-PMI analyzers represent just one of our handheld analyzer solutions, which include XRF tools for metal alloy identification and many other analysis needs.



www.XL-PMI.ge-mcs.com

Contact

721 Visions Drive
Skaneateles Falls, NY 13152
United States
Tel (toll-free): +1 (888) 332-3848
Tel: +1 (315) 554-2000 ext. 1
Fax: +1 (866) 899-4184

50 Industrial Park Road
Lewistown, PA 17044
United States
Tel (toll-free): +1 (866) 243-2638
Tel: +1 (717) 447-1562
Fax: +1 (717) 242-5054

E-mail: geit-info@ge.com

GEA30827

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