



X-Calibur

**EDXRF Bench-Top Spectrometer
Multi-element Analyzer**



Light elements analysis

Detection levels from
ppm to 100%

Fast and non-destructive
analytical method

Enhanced Analytix
software package

Detection range from
Na (11)-U (92)

X-Calibur Spectrometer

The compact benchtop spectrometer with unique front - Anode geometry and high power excitation X-ray source fits comfortably on a traditional laboratory bench and include a fully integrated computer system, six customizable filters, sample tray and a sample camera.

The Xenometrix bench-top spectrometer use a high resolution detector and a powerful X-ray tube, and accommodates samples of various sizes and types. The X-Calibur has an optional Ultra-thin detector window that provides superior performance for low Z elements (Light Element) analysis.

Non-destructive elemental analysis

Quantitative and qualitative analysis using standards and standardless Fundamental Parameters methods (FP) with detection range from Na (11) - U (92)

X-ray source

Excitation of 50kV, 50W, with Rh anode, LOD from ppm to 100% concentrations, providing excellent performance for complex applications

Advanced Analytix SW package

Powered by Analytix advanced SW analysis package for fast, easy-to-use performance for immediate action and results in the field

Silicon Drift Detector (SDD)

SDD with higher-count rate and resolution, down to 125eV for improved analysis

Fast SDD LE

Ultra-thin detector window provides superior performance for low Z elements analysis

Tube Filters

Six tube filters for fast and accurate determination of trace and minor elements customizable accordingly to application requirements

Automatic calibration

System automatic calibration upon materials for ambient atmosphere adjustment



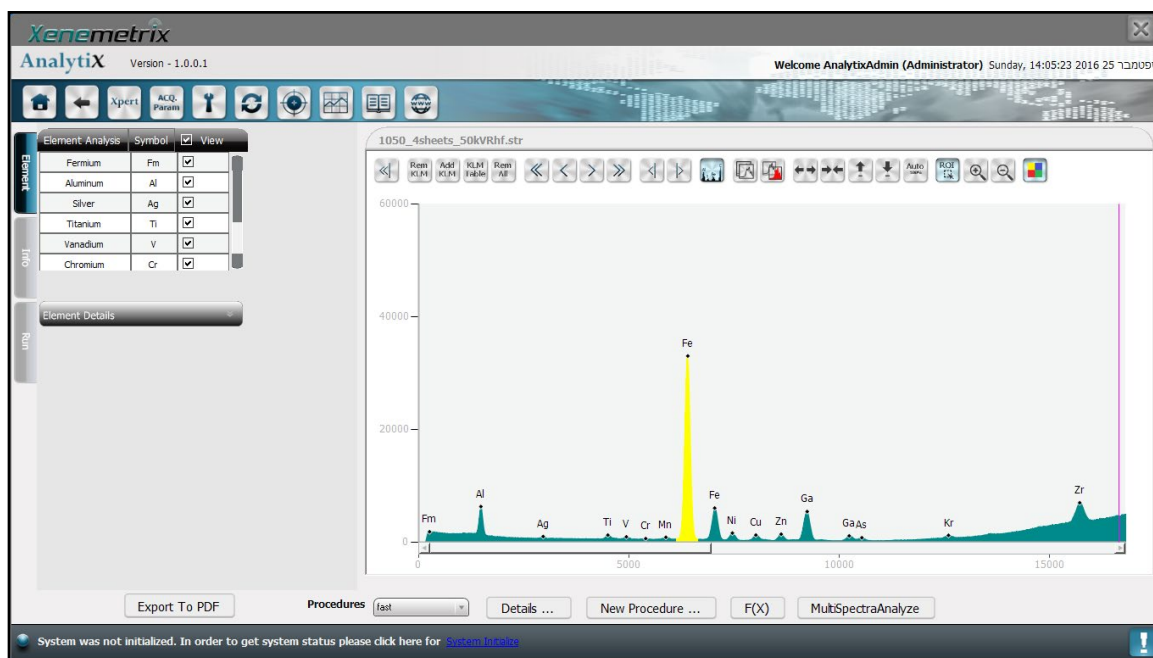


Analytix Software

Analytix deliver accurate, comprehensive and easy-to-understand results, Adaptable to a wide variety of applications, multiple tests performed within a short time and minimum configuration efforts.

Designed with a highly intuitive interface, a simple and user-friendly GUI that can be operated by different levels of users for a wide variety of elemental analysis tasks.

Analytix offers a client-server network operator mode - real-time data transfer by Wi-Fi or GPS, enables easy management of multiple systems at disperse global locations. Analysis can be easily performed onsite, results can be transferred to any distributed client with GPS location-based data analysis and unique test identification.



Key Applications

Mining & Minerals



Petrochemical



Academic Research



Polymers



Forensics



X-Calibur Technical Specifications

Detectable Range	Na (11) - U (92)
Detectable Concentration	ppm - 100%
X-ray Tube	Rh/Ag/Mo/W/Pd anode
X-ray Source	50kV, 50W
Excitation Type	Direct with filters
Detector	Fast SDD version
Resolution (FWHM)	125eV $\pm$ 5eV
Window Type	Be
Autosampler	16/8 positions
Work Environment	Air/ Vacuum/ Helium
Customized Tube Filters	Six software selectable
Customized Collimator	0.3 mm - 3 mm
Power Supply	110-230VAC 50/60Hz
Pulse Processing	Digital Pulse Processor
System Dimensions	Unpacked: 55W x 55L x 32H, Packed: 80W x 80L x 65H
System Weight	50kg (net), 90kg (gross)
Chamber Dimensions	22 x 22cm, H=5cm
Computer	Integrated PC
Operating Software	Analytix advanced package (Microsoft Windows™ OS)
Optional Software	Advanced Fundamental Parameters analysis, Standartless Software, libraries
Control	Automatic control of excitation, detection, sample handling and data processing
Spectrum Processing	Automatic escape peak and background removal, Automatic peak deconvolution, Graphical statistics
Quantitative Analysis Algorithms	Multi-element regression with inter-element corrections (six models available). Gross, net, fit and digital filter intensity methods
Options	SDD LE, Sample Spinner, CCD Camera

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Xenemetrix is a leading designer, manufacturer and marketer of Energy-Dispersive X-Ray Fluorescence (ED-XRF) systems. With more than 30 years experience, Xenemetrix continues to develop highly innovative technologies and solutions suitable for today's ever-growing analytical challenges.

Xenemetrix combines the latest technological developments with innovative engineering, to provide cost-effective solutions to a wide range of industries and applications.

Worldwide Distributions:

North America, Latin America, Europe, Asia & Pacific,
Australia, Africa & Middle East

