

Xenometrix

The Power to Change Energy Into Information



X-CALIBUR SDD

Bench Top EDXRF Spectrometer
fast, accurate, easy to use



- ▶ Elemental analysis Na(11) - U(92) from single ppm to 100% concentrations.
- ▶ Robust design, compact geometry.
- ▶ Impressive performance.
- ▶ Sample tray with 8/16 positions.
- ▶ Six customizable filters ready to optimize your application.
- ▶ SDD version: high count rate with excellent energy resolution.

The Ultimate in Analytical Performance

Xenometrix is a leading designer, manufacturer and marketer of Energy-Dispersive X-ray Fluorescence (EDXRF) systems and components for a wide range of industries and applications. Relying on more than

30 years experience in the field, Xenometrix provides quality and cost effective answers to real world analytical challenges by combining the latest technological developments with innovative engineering.

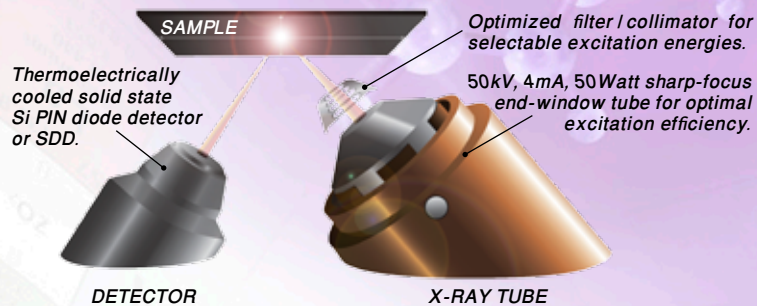
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X-Calibur SDD

Xenometrix's X-calibur Energy Dispersive X-ray Fluorescence (EDXRF) spectrometer offers the most convenient price: performance solution in the market for elemental analysis.

The compact spectrometer fits conveniently on a traditional laboratory bench and includes a completely integrated computer system. The robust design and build make the instrument ideal for a mobile laboratory. It meets MIL 810E specifications for shock testing. The analyzer provides non-destructive qualitative and quantitative determination of Sodium through Uranium. The end result is a clearly exceptional product, able to deliver powerful analytical results today and into the future.

The unique front-anode geometry of these X-ray tubes, together with an advanced optical



design, permits extremely close coupling to the sample resulting in increased sensitivity. The small footprint of the instrument minimizes space requirements without compromising performance.

SDD version: higher count rate & resolution; lower electronic noise; faster response minimizes down time.

Key applications

Petrochemical

Polymers

Metallurgical

Environmental

Minerals

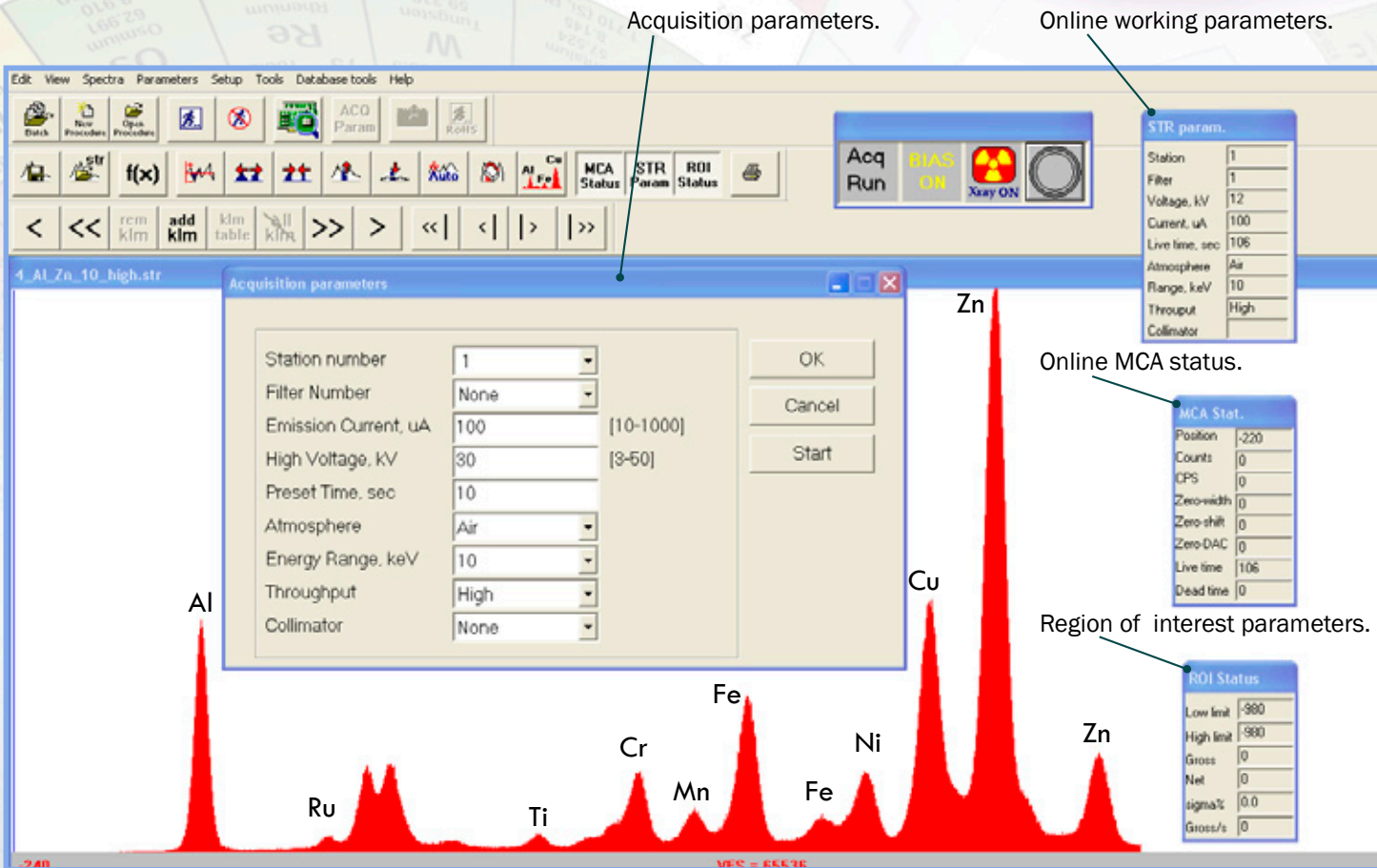


X-Calibur/SDD - Bench Top EDXRF Spectrometer

SYSTEM SPECIFICATIONS	
Measurement Capability	
Detectable Range	Na(11) - U(92). From C(6) with ultra SDD.
Detectable Concentration	ppm - 100%.
X-Ray Generation	
X-Ray Tube	Rh/Ag/Pd - anode.
X-Ray Source	50kV, 50W.
Excitation type	Direct with filters.
Beam Size	1.3mm diameter.
Stability	Precision 0.1% at ambient temperature.
X-Ray Detection	
Detector	SDD version: Silicon Drift Detector.
Resolution (FWHM)	SDD version: 136eV ± 5eV. Ultra SDD available with 123eV resolution!
Window	End window - front anode.
General Features	
Auto sampler	8 positions (16 optionally).
Work atmosphere	Air/ Vacuum/ Helium (as per need of customer and/or application).
Tube filters	6 software selectable.
Power Supply	230 VAC/50/60 Hz.
Pulse Processing	Multi-channel analyzer.
System dimensions (L x W x H, cm)	Unpacked: 55 x 55 x 32, Packed: 80 x 80 x 65.
System weight	50kg (net), 90kg (gross).
Chamber dimensions	22 x 22cm, H=5cm.
Computer	Integrated or standalone PC.
Software	
Operating Software	nExt™ analysis package, running under Microsoft Windows™ XP + basic Fundamental Parameters.
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.
Reporting	User-customizable data print out.
Options at additional cost (contact us for pricing)	16 pos. carousel autosampler. Sample spinner. Professional Fundamental Parameters.

Software environment (GUI)

Simple, straight forward, user friendly nEXT™ platform.



Worldwide Distributions:

NORTH AMERICA, LATIN AMERICA, EUROPE, ASIA, AUSTRALIA, AFRICA & MIDDLE EAST

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