ElvaX ProSpector®

EDXRF Handheld Alloy Analyzer

from

XCALIBUR XRF SERVICES

- Precious and non-precious metal analysis; Gold, Platinum, Silver, Steel and Copper alloys, scrap metals analysis
- Lead and Cadmium determination in jewelry, paint, toys, children's items including furniture and clothing
- Restriction of Hazardous Material (RoHS), WEEE and Proposition 65 Compliance testing
- Applications include; environmental, art & archeological, mining, building material, soil and sediment analysis, etc

X-ray fluorescence (XRF) is widely used for elemental and chemical analysis in a variety of fields. This technology is an extremely versatile tool because of its portability, rugged styling and dependability. The material being tested is left unharmed; there is no need for advanced sample preparation and readouts are clearly visible.

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Xcalibur and Elvatech are proud to introduce The ElvaX ProSpector, the latest XRF system to join our family of portable, Energy Dispersive X-Ray Fluorescence (EDXRF) spectrometer systems. Like all Elvatech products, this portable, handheld EDXRF elemental analysis system is designed to be intuitive and user friendly. The system utilizes a 7.2 Vdc Li-ion battery. Under normal use, it has an operating time of 8 hours before charging is required. The ElvaX ProSpector operates at a high voltage of 40 kV but can be set for up to 50 kV, and has a detectable range of Cl to U. The light element option has a detectable range from Mg to U. All Elvatech products include an applicable computer (or PDA) and software. We also offer on-site installation, full warranty and support for all of our products, available exclusively through Xcalibur XRF Services.

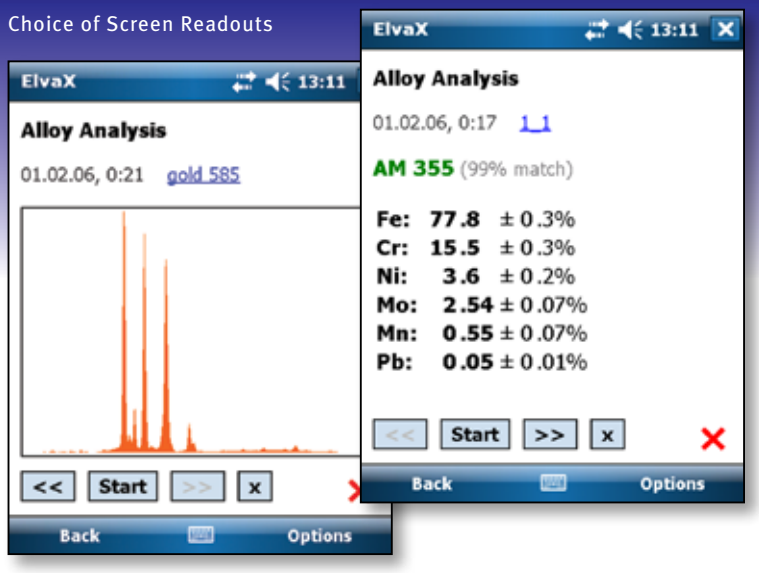
For more information, contact Xcalibur XRF Services today at

631.435.9749

www.xcaliburxrf.com




Choice of Screen Readouts



"Soft-touch" grip

Basic Specifications

Standard element detection range	From Cl (Z=17) to U (Z=92)
Optional light elements	From Mg (Z=12) to S (Z=16)
Battery operation time	Up to 8 hours
Dimensions	242 mm (L) x 230 mm (H) x 78 mm (W)
Weight (with battery)	1230 g (1440 g)

Technical Characteristics

X-ray tube	W anode, 40 kV max (50 kV max optional), 100u amp max. Optional Ag anode for light element analysis. 5 filter positions

X-ray Detector

Detector type	Solid state Si-pin-diode with thermo-electrical cooling (optional SDD)
Active area	6 mm^2
Energy resolution	165 eV at 5.9 keV (140 eV for SDD)

System Electronics

Pulse processor	Digital pulse processor based on 80 MHz DSP Pile-up rejection Pulse shape selector Automatic adjustment to count rate
MCA	4096 channels
Data processing	624 MHz PDA
Display	High resolution, 4-inch color touch-screen

Software

Supported operating systems	Windows CE/Mobile for PDA Windows XP/Vista/7 for PC
Quantitative analysis algorithms	Fundamental parameters Empirical calibrations

Other XRF Products

ElvaX

- Standard chamber size 43 cm x 34 cm x 20 cm 18 kg
- Large chamber size 50 cm x 50 cm x 38 cm 35 kg
- Detectable Range Cl (17) – U (92)
- He Purge detectable range Na (11) – U (92), optional
- 8 position carousel, optional
- Detector resolution 165 eV @ 5.9 KeV (Fe 55 isotope)
- SDD Detector option 145 eV @ 5.9 KeV (Fe 55 isotope)
- X-ray generation 4 – 50kV (0.1 kV steps)
- The ElvaX system has a full array of options to fit a wide range of analytical needs

ElvaX Mini

- Standard chamber size 22 cm x 34 cm x 20 cm 10 kg
- Detectable range Ti (22) – U (92)
- Detector resolution 165 eV @ 5.9 KeV (Fe 55 isotope)
- Battery option available 7.2 Vdc Li-Ion, 8 hrs/charge
- X-ray generation 4 – 40 kV (0.1 kV steps)
- 50 ppm detectable concentration for most elements
- The Mini is half the size of the ElvaX system, designed for companies/clientele with minimal room and budget

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Xcalibur XRF Services offers a variety of new and reconditioned XRF systems for analysis applications including:

- Children's items, such as painted cribs, high chairs and furniture, jewelry, toys, decorations and books
- Restriction of Hazardous Material (RoHS), WEEE and Proposition 65 incuding Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs)
- Building materials including cement, treated lumber, drywall testing, plastics contaminants, pvc testing, chrome, photovoltaics
- Mining, scrap metal analysis and ore exploration including Gold, Platinum, Silver, Steel and Copper Alloys
- Environmental, soil & sediment, oil & fluid, and forensics

All equipment includes on-site service support by a team of engineers with many years of solid EDXRF experience. We are one of the leading XRF equipment providers to museums, universities, refining facilities and plating industries, as well as many other related fields. Our firm provides complete on-site support including certification and preventive maintenance services, and repair for many types of XRF equipment. Also available are on-line and phone support capabilities, standards, calibrations and applications for a wide range of EDXRF equipment manufacturers. Check our web site for a full selection of XRF products, services, and more.

For more information on these and other Xcalibur products, contact us today!

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1340 Lincoln Avenue, Unit #6, Holbrook, NY 11741
www.xcaliburxrf.com • Tel: 631.435.9749 • Fax: 509.691.3344