

ElvaX ProSpector –

EDXRF Handheld Alloy Analyzer



analytical equipment



On-site instant analysis without sampling:

- Ferrous and nonferrous alloys sorting
- RoHS, WEEE and Proposition 65 Compliance testing
- Lead determination in paint, toys, furniture and clothing
- Soil and sediments analysis
- Mining and geology
- Art and archeology

The ElvaX ProSpector is a remarkable new hand held EDXRF analyzer capable of identifying and measuring the concentration of all elements from Chlorine to Uranium in the periodic table with options to extend this to lighter elements such as Magnesium

ProSpector can be used anywhere. It is battery operated, light weight, rugged and easy to use. Powerful intuitive software is incorporated to allow analysis of practically any combination of elements in all types of matrix. This includes metals such as alloys of all types, minerals of all types, liquids and gels. The instrument is direct reading in the sense that the user simply points at an object, press a trigger and after a few seconds note the elements present as well as their concentration on an integrated microprocessor screen. It is as simple as that.

For lab use there is also an optional table stand enabling the instrument to be used as a conventional EDXRF spectrometer with the same features found on more expensive desk top instruments.

For those requiring larger desk top analyzers we offer a full range of products including instruments with automatic sample handling. Also miniaturized instruments designed specifically for analyzing the distribution of elements found in art objects such as precious paintings, architectural objects and much more. These remarkable instruments are used as part of a 2D X&Y coordinate system or even integrated into a multi axis robot enabling complete paintings to be mapped without being touched eliminating the need to remove samples.

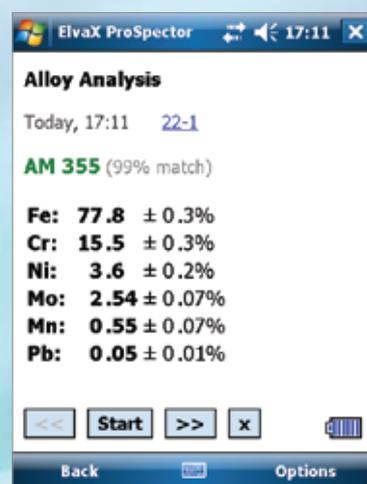
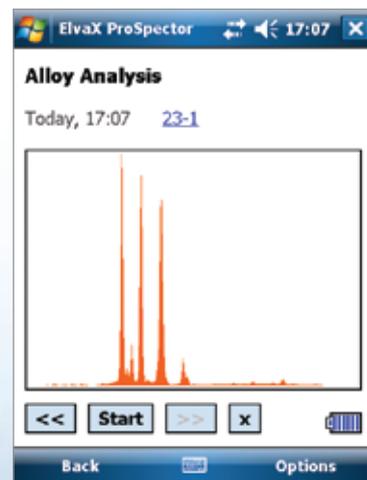
We offer excellent software for all applications and whenever necessary we are here to help with any calibration issues

Basic user 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), 100uAmp 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 (optional 25 mm ²)
Energy resolution	<165 eV at 5.9 keV (<140 eV for SDD)
System electronics	
Pulse processor	Digital pulse processor based on 80MHz DSP Pile-up rejection Pulse shape selector Automatic adjustment to count rate
MCA	4096 channels
Data processing	624 MHz PDA
Display	High resolution 4 inches 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



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