

1 H 1.00794																	2 He 4.002602			
3 Li 6.941	4 Be 9.012182															6 C 12.0107	7 N 14.0067	8 O 15.9994	9 F 18.9984032	10 Ne 20.1797
11 Na 22.989769	12 Mg 24.3050															14 Si 28.0855	15 P 30.973762	16 S 32.065	17 Cl 35.453	18 Ar 39.948
19 K 39.0983	20 Ca 40.078	21 Sc 44.955912	22 Ti 47.867	23 V 50.9415	24 Cr 51.9961	25 Mn 54.938045	26 Fe 55.845	27 Co 58.933195	28 Ni 58.6934	29 Cu 63.546	30 Zn 65.38	31 Ga 69.723	32 Ge 72.64	33 As 74.9216	34 Se 78.96	35 Br 79.904	36 Kr 83.798			
37 Rb 85.4678	38 Sr 87.62	39 Y 88.90585	40 Zr 91.224	41 Nb 92.90638	42 Mo 95.96	43 Tc [98]	44 Ru 101.07	45 Rh 102.90550												
55 Cs 132.9054519	56 Ba 137.327	Lanthanides		72 Hf 178.49	73 Ta 180.94788	74 W 183.84	75 Re 186.207	76 Os 190.23	77 Ir 192.225	78 Pt 195.084	79 Au 196.96657	80 Hg 200.59	81 Tl 204.38	82 Pb 207.2	83 Bi 208.9804	84 Po [209]	85 At [210]	86 Rn [222]		
87 Fr [223]	88 Ra [226]	Actinides		90 Th 232.03806	91 Pa 231.03588	92 U 238.02891	93 Np [237]	94 Pu [244]												

ElvaX[®] Mobile

Portable X-Ray Fluorescence Spectrometer

from



ElvaX Mobile is a portable EDXRF analyzer for testing a wide variety of materials. The sampling tray, similar to a benchtop instrument, allows the convenient placement of XRF sample cups. The high resolution SDD detector and absence of collimators ensures a high count rate...crucial for quick detection of trace elements. The **ElvaX Mobile** analyzer is indispensable for testing soil and petrochemicals, or any other applications where testing solids, liquids and powders is required on site. The PDA integrated into the instrument has an intuitive interface as well as a bright, high resolution screen. **ElvaX Mobile** can be synchronized with a desktop computer via Wi-Fi or Bluetooth. The instrument is as light and easy to carry as an ordinary briefcase.

- Cabinet type XRF system uses same PDA as the ProSpector handheld system
- Precious and non-precious metals analysis
- Measurable range Cl- U with capability to measure to Mg
- Also compatible with the ElvaX software package for use with a desktop or laptop computer
- Designed for field use as an alternative to a handheld XRF system

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Specifications

Measurement Capability

Detectable Range: Cl (17) - U (92), capability to measure to Mg with Ag tube and SDD detector

Detectable Concentration: Below 10 PPM range for most elements in a light matrix, 0.01% for metal alloys

X-Ray Generation

X-Ray Tube: Au or Aq target anode, air cooled, other tube targets available

X-Ray Generator: 4-40 kV (adjustable in 0.1 kV steps), 0-100 μ A (adjustable in 0.2 μ A steps), 4 W max

Stability: 0.1% over 8 hours

Beam Size: 3 x 4 mm. (Special order up to 10 mm)

X-Ray Detection

Standard Detector: Si-Pin (165 eV FWHM @ 5.9 keV), Thermoelectrically cooled
6 mm²/500 μ m/ ML Collimator / 0.5 mil Be window

Optional Detector: High resolution SDD (145 eV FWHM @ 5.95 keV)/25 mm²

Chamber

Dimensions/Weight: Standard chamber: 16" x 13" x 6.5", 12 lbs

Power Supply: Battery operating life, up to 8 hrs

Pulse Processing: Ultra fast digital pulse processor

Software

Operating System: Windows CE/Mobile for PDA

Windows XP/7 for PC when using optional ElvaX™ analysis package

Automatic spectrum calibration/adjustment before spectrum processing

User customizable data printout

Control: X-ray source output, data acquisition system parameters, sample and filter selection (optional)

Data Acquisition Time: 10 - 1200 sec

Spectrum Processing: Automatic peak search, peak deconvolution, background removal, automatic element identification, net peak intensities above background

Quantitative Analysis: Fundamental parameters, quadratic stepwise multiple

Algorithms: Regression, manual spectra comparison

Optional: Dual task measurement capability, available with filter package

Alloy database, ElvaX supplied database 300 – 10,000 alloy list

User customized alloy database available



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

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