



Advanced XRF equipment and solutions



**INSTANT XRF ANALYSIS RESULTS
EVERYWHERE AND ANYTIME**

ProSpector 2

ProSpector 2 is our time-tested handheld XRF analyzer.

Due to the advanced electronics and state-of-the-art mathematical algorithms, ProSpector 2 provides ultimate quality of measurement within a couple of seconds. It is an intuitive and user-friendly instrument for highly accurate elemental analysis in a variety of applications

ACCURACY

With powerful hardware and unique software algorithms, the ProSpector 2 offers the highest precision and accuracy of elemental analysis for a wide range of materials

SPEED

Dynamically Adaptive Shaping (DAS) DPP developed by Elvatech combined with the Fast SDD detector makes the ProSpector 2 the fastest handheld XRF analyzer on the market

STABILITY

Thanks to the digiX-40 digital X-Ray source, automatic temperature and barometric corrections, and digital calibration adjustment, ProSpector 2 offers long-life reproducibility of the analysis without the need to re-calibrate the system



Shock and water resistant carrying case allows you to take the instrument anywhere you need it.



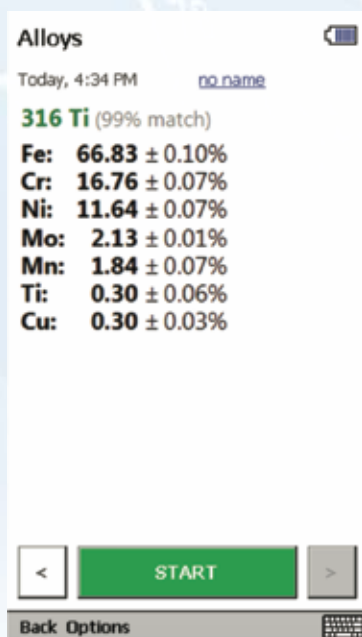
Use a laboratory stand to prevent X-Ray scattering when analyzing small objects or light matrix samples.

An adaptor for weld joints analysis focuses X-Ray spot on a weld joint excluding surrounding material



- ✓ High speed of operation @ above 500 000 CPS count rate
- ✓ Ambient temperature and pressure corrections for highest stability
- ✓ Over 10 hours operation from the battery
- ✓ Detector protection
- ✓ Extensive and editable alloy grade library
- ✓ Protective film replacement with no tool required
- ✓ Full compatibility with ElvaXTM PC software
- ✓ Radiation safety: IR proximity sensor and low count detection

Instant Analysis Results Print-out with a portable Bluetooth printer provides measurement prints at any time, anywhere



ProSpector 2 is a powerful handheld XRF analyzer, designed by Elvatech. Due to the advanced hardware and unique software algorithms, ProSpector 2 provides ultimate speed and accuracy of the elemental analysis. ProSpector 2 combines powerful analytical software toolkit with an easy-to-use interface, allowing even novice operators to perform any necessary measurements in seconds.

Digital X-Ray Source digiX-40

Anode: Rh, W
Voltage: 40 kV
Current: 200 uAmp
Power: 4 W
5 positions filter changer

X-Ray Detector

Type: Fast SDD (optional PIN)
Area: 25 mm²
Energy resolution: <140 eV @ 5.9 keV
Count rate: 500,000 cps

Electronics

DPP: proprietary DAS (Dynamically Adaptive Shaping) type,
80 MHz sampling rate
MCA: 4096 channels
Display: 4.3'
Connectivity: USB, Bluetooth
High resolution video camera (option)

General

Dimensions: 242 X 230 X 78 mm
Weight: 1.4 kg

Software

Operating system: Windows EC7
Analysis algorithms: Fundamental parameters (FPA),
Empirical (regression) calibrations

PERIODIC TABLE

hydrogen 1 H 1.0079																	helium 2 He 4.0026																		
lithium 3 Li 6.941	beryllium 4 Be 9.0122																	boron 5 B 10.811	carbon 6 C 12.011	nitrogen 7 N 14.007	oxygen 8 O 15.999	fluorine 9 F 18.998	neon 10 Ne 20.180												
sodium 11 Na 22.990	magnesium 12 Mg 24.305																	aluminium 13 Al 26.982	silicon 14 Si 28.086	phosphorus 15 P 30.974	sulfur 16 S 32.065	chlorine 17 Cl 35.453	argon 18 Ar 39.948												
potassium 19 K 39.098	calcium 20 Ca 40.078	scandium 21 Sc 44.956	titanium 22 Ti 47.867	vanadium 23 V 50.942	chromium 24 Cr 51.996	manganese 25 Mn 54.938	iron 26 Fe 55.845	cobalt 27 Co 58.933	nickel 28 Ni 58.693	copper 29 Cu 63.546	zinc 30 Zn 65.39	gallium 31 Ga 69.723	germanium 32 Ge 72.61	arsenic 33 As 74.922	selenium 34 Se 78.96	bromine 35 Br 79.904	krypton 36 Kr 83.80																		
rubidium 37 Rb 85.468	strontium 38 Sr 87.62	yttrium 39 Y 88.906	zirconium 40 Zr 91.224	niobium 41 Nb 92.906	molybdenum 42 Mo 95.94	technetium 43 Tc [98]	ruthenium 44 Ru 101.07	rhodium 45 Rh 102.91	palladium 46 Pd 106.42	silver 47 Ag 107.87	cadmium 48 Cd 112.41	indium 49 In 114.82	tin 50 Sn 118.71	antimony 51 Sb 121.76	tellurium 52 Te 127.60	iodine 53 I 126.90	xenon 54 Xe 131.29																		
caesium 55 Cs 132.91	barium 56 Ba 137.33	lanthanum 57 La 138.91	cerium 58 Ce 140.12	praseodymium 59 Pr 140.91	neodymium 60 Nd 144.24	promethium 61 Pm [145]	samarium 62 Sm 150.36	europium 63 Eu 151.96	gadolinium 64 Gd 157.25	terbium 65 Tb 158.93	dysprosium 66 Dy 162.50	holmium 67 Ho 164.93	erbium 68 Er 167.26	thulium 69 Tm 168.93	ytterbium 70 Yb 173.04	actinium 89 Ac [227]	thorium 90 Th 232.04	protactinium 91 Pa 231.04	uranium 92 U 238.03	neptunium 93 Np [237]	plutonium 94 Pu [244]	americium 95 Am [243]	curium 96 Cm [247]	berkelium 97 Bk [247]	californium 98 Cf [251]	einsteinium 99 Es [252]	fermium 100 Fm [257]	mendelevium 101 Md [258]	nobelium 102 No [259]						
francium 87 Fr [223]	radium 88 Ra [226]	actinium 89 Ac [227]	thorium 90 Th 232.04	protactinium 91 Pa 231.04	uranium 92 U 238.03	neptunium 93 Np [237]	plutonium 94 Pu [244]	americium 95 Am [243]	curium 96 Cm [247]	berkelium 97 Bk [247]	californium 98 Cf [251]	einsteinium 99 Es [252]	fermium 100 Fm [257]	mendelevium 101 Md [258]	nobelium 102 No [259]	astatine 85 At [210]	radon 86 Rn [222]	astatine 85 At [210]	radon 86 Rn [222]	francium 87 Fr [223]	actinium 89 Ac [227]	actinium 89 Ac [227]	actinium 89 Ac [227]	actinium 89 Ac [227]	actinium 89 Ac [227]	actinium 89 Ac [227]	actinium 89 Ac [227]	actinium 89 Ac [227]	actinium 89 Ac [227]	actinium 89 Ac [227]	actinium 89 Ac [227]				
		* Lanthanide series																																	
		** Actinide series																																	

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Striving to become the best individuals, we endeavour to foster the best team. Performing sensibly, we try to achieve the best efficiency. Working innovatively, we seek to make the best products. Listening patiently, we excel to offer the best service. So, no matter what you needs are, come to us. **GET THE BEST**

LABINDIA reserve the right to change specification without notice as part of its continuous programme of product development.