



Advanced XRF equipment and solutions



**INSTANT XRF ANALYSIS RESULTS  
EVERYWHERE AND ANYTIME**

# ProSpector 2



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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.



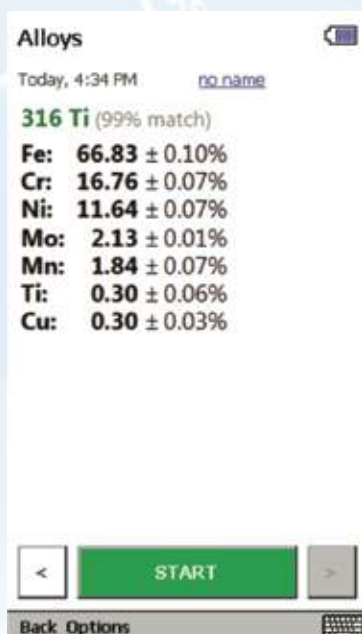
Use a laboratory stand to prevent X-Ray scattering when analyzing small objects or light matrix samples.

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  $\mu$ Amp  
Power: 4 W  
5 positions filter changer

### X-Ray Detector

Type: Fast SDD (optional PIN)  
Area: 25 mm<sup>2</sup>  
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

## ProSpector 2 models

	ProSpector 2	ProSpector 2LE
X-Ray Tube	W, 40 kV	Rh (W, Ag), 40 kV
Primary Filters	Single	automatic 5-position changer
Collimators	Single	Single
X-Ray Detector	Si-PIN-Diode	Large area SDD
Detection Range	Cl - U	Mg - U
CCD Camera	No	Sample view (option)
Temperature correction	Yes	Yes
Barometric correction	No	Yes
Bluetooth	Option	Option
Wi-Fi	No	Option
Ingress Protection	IP54	IP54

