

Elvatech

www.elvatech.com



**ElvaX ProSpector Handheld XRF Analyzer
for Mining and Exploration**

The advent of handheld XRF analyzers has changed mining and exploration drastically. Critical data is now available without waiting days or weeks for the results of the traditional analysis methods.

ElvaX ProSpector XRF analyzer, employing the latest developments in XRF, offers you highly accurate analysis of a wide range of mineral samples. Light and rugged, ElvaX ProSpector can be taken anywhere for performing measurements 24/7 to quickly get as much valuable data as possible. The instrument's housing is made of hard plastic designed to withstand harsh operating conditions. The analytical window features detector protection from breaking when measuring materials that can cause mechanical damage.



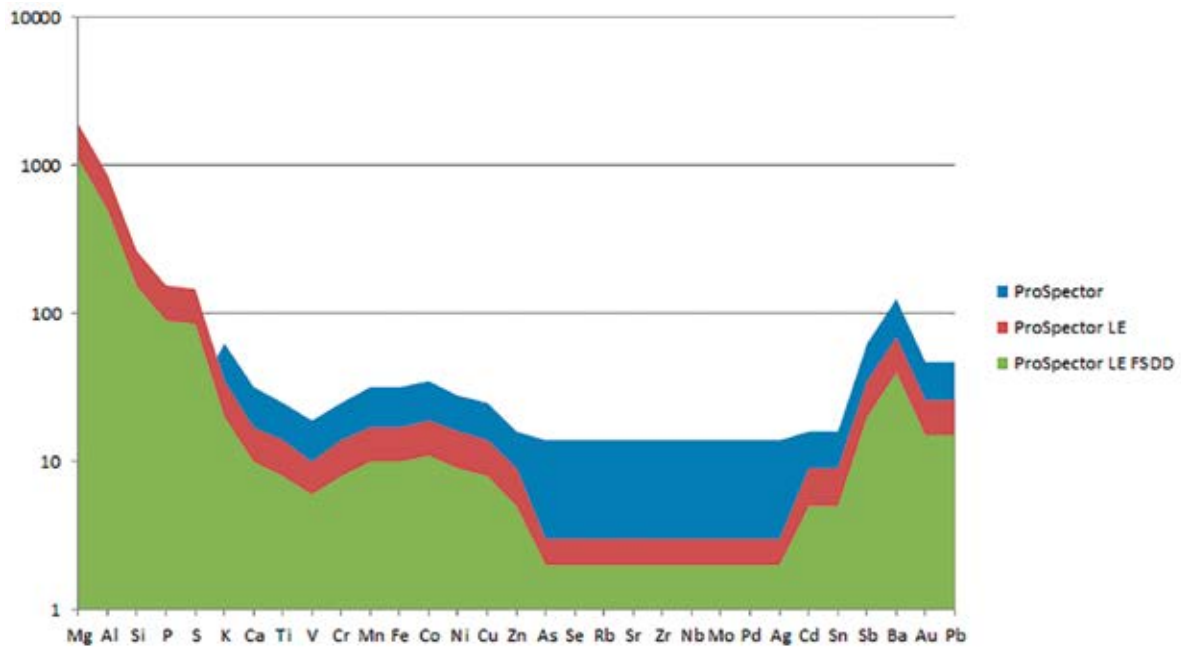
For samples with unknown chemical composition ElvaX ProSpector software uses the Fundamental Parameters Method. Fundamental Parameters analysis in ElvaX ProSpector is remarkably accurate. However every instrument is also calibrated for the basic mineral types with NIST or NIST traceable samples. ElvaX ProSpector demonstrates excellent repeatability.

Repeatability of ElvaX ProSpector in Iron Ore.

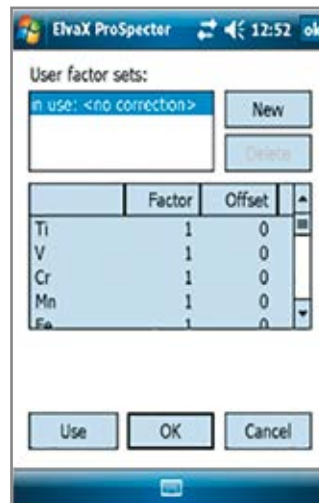
Measurement #	1	2	3	4	5	6	7	8	9	10	Average	Std Dev	% RSD
Fe, %	61,937	62,012	61,816	61,866	61,876	61,969	61,961	61,985	61,889	61,912	61,92	0,05	0,08
S _i O ₂ , %	9,81	9,93	10,04	10,01	9,9	10,02	9,99	9,79	9,96	10,03	9,94	0,06	1,39

ElvaX ProSpector analyzers feature three types of detectors: Si-PIN detector (ProSpector), SDD detector (ProSpector LE), Fast SDD detector (ProSpector LE Fast).

Typical Limits of Detection of ProSpector Analyzers (ppm)



ElvaX spectrometers can perform measurement of a wide range of mineral samples without any prior tuning. However ElvaX TM software features a powerful set of analytical tools for improving analysis accuracy for sight specific or matrix specific samples.



ElvaX ProSpector supports GPS integration via Bluetooth interface. ElvaX TM software allows exporting GPS data to a GIS. As a result the operator can do real time geochemical mapping for making fast decisions.



ElvaX ProSpector field accessories include: holster, anti-scattering shield, rotating sampler for analysis of inhomogenous samples.



User Advantages of ElvaX ProSpector

- Unique 300 000 CPS count rate with Fast SDD detector for excellent measuring speed
- Outstanding stability: no calibration or tuning is ever required
- Pressure and temperature correction for analysis in various environments
- Low limits of detection and fast measurement time due to large area SDD and Fast SDD detectors
- 5-position filter changer for optimum elements excitation parameters
- Accelerometer for impact recording and battery saving
- Double x-ray safety: proximity sensor to stop x-ray emission if sample is absent, automatic x-ray turn-off at low count rate
- USB and Bluetooth interface for easy data downloading
- ElvaX™ software for calibration and in-depth spectrum analysis
- All-day-round operation due to 12 hours constant operation time on battery, two batteries in the delivery set

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