

ElvaX GEO

PORTABLE XRF ANALYZER



Designed for Mining and Exploration

ElvaX Geo offers you accurate data and ease of operation during geo exploration or quality assurance. The instrument is designed specially for long non-stop convenient operation. The unique 800 mm² analytical spot analysis increases averaging of inhomogeneous samples.

A composite pole helps you keep a comfortable body position during operation and enables you to analyze hard-to-reach places. This form factor allows for uninterrupted measurement during slow walking while measurement results are communicated to the operator through headphones.



Excellent limits of detection
and repeatability



Unique 800 mm²
analytical spot



Accurate fundamental
parameters analysis
of unknown samples

ElvaX Geo is operated through a PDA in a protective enclosure, which can be put underneath outer garment in case of extreme climatic conditions. The Li-Ion Battery can be hidden as well.

ElvaX Geo software uses both the Fundamental Parameters and the Empirical Calibration Methods. Fundamental parameters analysis of unknown samples without empirical calibration is remarkably accurate. However every instrument is calibrated for the basic mineral types with NIST or NIST traceable samples.

Although ElvaX Geo is capable of analyzing the whole range of minerals without prior calibration. User Factor Calculation Method enables you to enhance analysis accuracy from a specific site.



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Digital X-Ray Source digiX-50

Anode: W
Voltage: 50 kV
Current: 200
Power: 10 W
Spot size: 800 μm^2

X-Ray Detector

Type: Fast SDD
Active area: 25 mm^2 (option 70 mm^2)
Energy resolution: <145 eV @ 5.9 keV
Count rate: 500 000 cps

Electronics

DPP: proprietary DAS (Dynamically Adaptive Shaping) type,
80 MHz sampling rate
MCA: 4096 channels

General

Dimensions: 242 x 236 x 90 mm
Weight: 2 kg
Protection: IP67

Software

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

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