

ELVATECH PRECISION THAT
EMPOWERS CONFIDENCE

PROSPECTOR 3 ADVANCED



**HANDHELD XRF FOR
EVERY ELEMENT, ANY APPLICATION**

THE PROSPECTOR 3 ADVANCED IS A SOPHISTICATED HANDHELD XRF ANALYZER DESIGNED TO MEET THE RIGOROUS DEMANDS OF COMPLEX MATERIAL ANALYSIS

Perfectly suited for professionals in metallurgy, geology, manufacturing, and quality assurance, this model delivers precision and flexibility for both heavy- and light-element analysis.

ENHANCED PRECISION

Rhodium-anode X-ray tube at 40 kV (optional 50 kV) combined with a large-area SDD ensures accurate measurements even for trace concentrations – so you can trust every data point and minimize re-testing.

ADVANCED FLEXIBILITY

Automatic 8-position filter changer and 2-position collimator adapt instantly to any sample type – saving you setup time and eliminating manual swap errors.

ROBUST MOBILITY

Compact, rugged design (178 × 88 × 40 mm; 1.05 kg) with IP65 protection keeps the analyzer working reliably in harsh field environments – so you can focus on results, not gear maintenance.

COMPREHENSIVE USER INTERFACE

Intuitive software plus optional macro-view CCD camera deliver clear visualization and streamlined workflows – letting you analyze with confidence and train new operators in minutes.



TWICE
better precision

TWICE
lower detection limits

FOUR TIMES
faster than other handheld XRF



WIDE DETECTION RANGE

Accurately analyzes elements from Mg through U, covering both light and heavy elements in a single run.

HIGH-QUALITY IMAGING

Optional CCD camera offers sample-view and macro-view modes for detailed inspection before and after measurement.

AUTOMATIC FILTER&COLLIMATOR

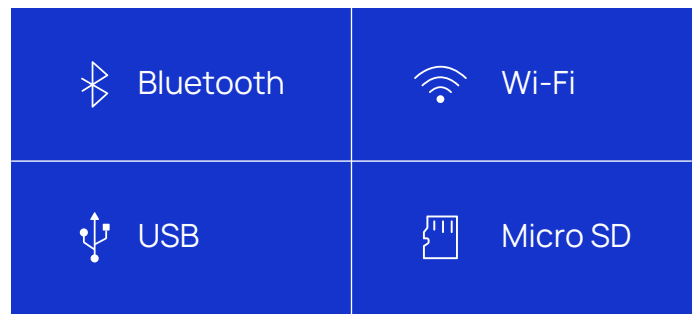
Eight-position filter and dual-position collimator switch on demand for optimal signal-to-noise across diverse materials.

ERGONOMIC TOUCHSCREEN

Large 4.3" folding display with autorotation supports both horizontal and vertical operation, reducing operator fatigue.



| Cements | |
|----------------------|-----------------------|
| Today, 11:43 AM 1886 | |
| LOI: | 1.560 ± 0% |
| CaO: | 68.16 ± 0.16% |
| SiO2: | 21.54 ± 0.20% |
| Al2O3: | 3.83 ± 0.23% |
| SO3: | 2.77 ± 0.03% |
| MgO: | 1.67 ± 0.23% |
| Fe2O3: | 0.149 ± 0.005% |
| P2O5: | 0.11 ± 0.05% |
| TiO2: | 0.09 ± 0.03% |
| K2O: | 0.08 ± 0.04% |
| SrO: | 0.031 ± 0.001% |
| Mn2O3: | 0.011 ± 0.006% |
| ZnO: | 0.002 ± 0.001% |



TYPICAL APPLICATIONS



Complex Alloy Analysis in Metallurgy



Mineral and Ore Analysis in Geology



Quality Control for Construction Materials



Electronics Component and Solder Testing



Precious Metals and Advanced Jewelry Inspection

REAL-WORLD EXAMPLE



In cement manufacturing, ProSpector 3 Advanced provides precise control of clinker and cement quality through comprehensive elemental analysis. Its automatic filters reduce background interference – ensuring fast, clear readings that boost production efficiency and lower material waste.

TECHNICAL SPECIFICATIONS

X-ray Tube: Rh anode, 40 kV (optional 50 kV)

Detector: Large-area Silicon Drift Detector (SDD)

Filters & Collimator: 8-position automatic filter; 2-position collimator

Detector Window: 1 μ m Graphene

Detection Range: Mg – U

CCD Camera: Sample-view; optional macro-view

Dimensions & Weight: 178 × 88 × 40 mm; 1.05 kg

Ingress Protection: IP65 dust- and waterproof

Connectivity: Bluetooth & Wi-Fi; GPS optional

Environmental Correction: Temperature & barometric

Choose **ProSpector 3 Advanced** for versatile, user-friendly XRF analysis that adapts to both routine tasks and specialized challenges.



Speed



Lightness



Accuracy



Stability

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