



Advanced XRF equipment and solutions



**ANALYTICAL POWER
OF A FULL-BLOWN LAB
IN YOUR HAND**

PROSPECTOR 3

www.elvatech.com

ProSpector 3 is the next-generation hand-held X-ray fluorescence analyzer. It offers a new level of analysis accuracy, speed and detection limits. ProSpector 3 is the smallest and lightest hand-held XRF on the market with an intuitive and user-friendly software interface.



PRODUCTIVITY

Highest accuracy within the shortest measurement time, excellent precision

STABILITY

Excellent calibration stability, compensation of influence of ambient temperature and pressure variations

MOBILITY

Small (236 x 193 x 68 mm), and light (1.05 kg) handheld analyzer.

RELIABILITY

Dustproof and waterproof instrument body, with IP-67 protection level.

FUNCTIONALITY

Two CCD cameras for macro- and micro- view combined with an automatic collimator

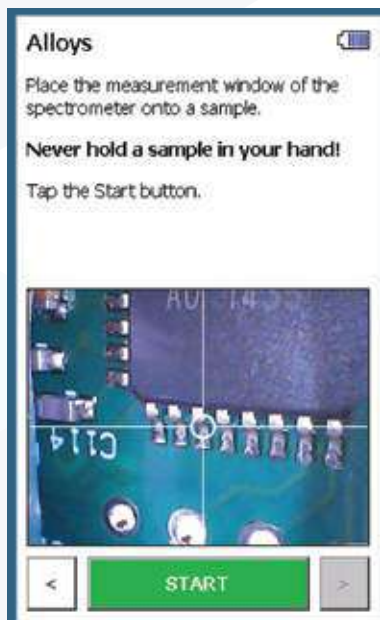
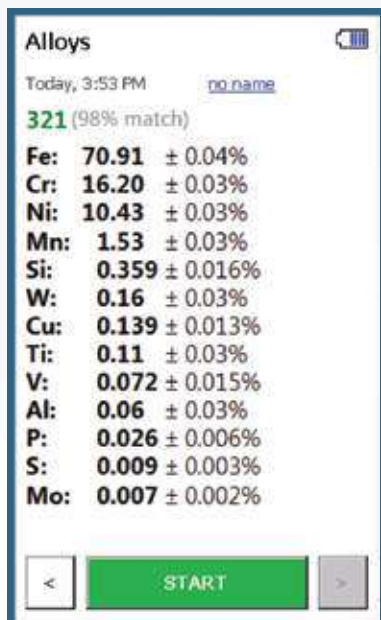
 Bluetooth

 Wi-Fi

 USB

 Micro SD

All interfaced to quick data exchange



ProSpector 3 has the largest touch screen (4.3") available in hand-held XRF analyzers

Image autorotation lets you operate the analyzer both in the horizontal and vertical position.

The unique design of the folding display allows for convenient operation in the lab stand with no need to use an external PC.



ProSpector 3 is available in two bright colors, so they never get lost during Your operations.

500 000 cps

World's fastest XRF analyzer (more than twice as fast as any other handheld XRF) – highest accuracy within the shortest measurement time, excellent precision



APPLICATIONS

Positive material identification and scrap sorting

Alloy analysis

Ferroalloys

Jewelry and precious metals analysis

Mining and geology

Automotive catalytic converters

RoHS, WEEE, ELV, Proposition 65 Compliance testing

Construction materials and minerals

Refractory materials

Environmental testing of soils and sediments, water, paints and forensic materials

Coating thickness

Custom applications are available upon request

Specs

Digital X-Ray Source digiX-50

Anode: Rh, W
Voltage: 50 kV
Current: 200 uAmp
Power: 5 W
8 positions filter changer
2 position collimator changer

X-Ray Detector

Type: SDD
Area: 10, 30, or 40 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, Wi-Fi
2 high-resolution video cameras

General

Dimensions: 236 x 193 x 68 mm
Weight: 0.82 kg, 1.05 with battery kg
Protection: IP67

Software

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

ProSpector 3 models

	ProSpector 3	ProSpector 3 Advanced	ProSpector 3 Max
X-Ray Tube	W, 40 kV (option 50 kV)	Rh, 40 kV (option 50 kV)	Rh, 50 kV
Primary Filters	Single	automatic 8-position changer	automatic 8-position changer
Collimators	Single	automatic 2-position changer	automatic 2-position changer
X-Ray Detector	SDD (option - large area Fast SDD)	Large area Fast SDD	Extra large area Fast SDD with graphene window
Detector Window	Be, 12 um	Be, 8 um	Graphene, 1 um
Detection Range	S - U	Mg - U	Mg - U (Na - U)
CCD Camera	Sample view (option)	Sample view (option - macro view)	Sample view, macro view
Temperature correction	Yes	Yes	Yes
Barometric correction	No	Yes	Yes
Bluetooth	Option	Option	Yes
Wi-Fi	Option	Option	Yes
GPS	No	Option	Yes
Ingress Protection	IP65	IP65	IP67
He purge	No	No	Option

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