Elvatech

Advanced XRF equipment and solutions

A WHOLE LAB IN ONE HAND.
EVERYWHERE AND ANYTIME.

ProSpector 2

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
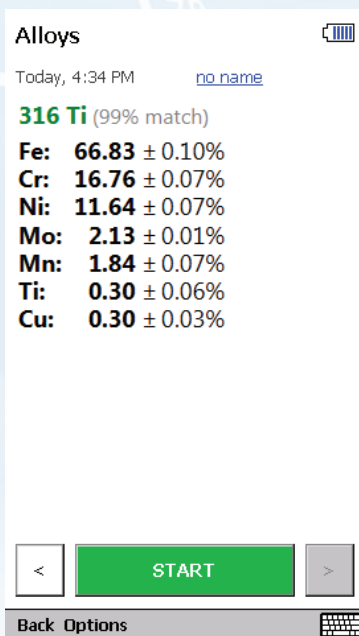

Shock and water resistant carrying case allows you to take the instrument anywhere you need it.

A holster with belt straps is used to keep the instrument handy all the time.

- ✓ 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


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Alloys                          ▯
Today, 4:34 PM          no name

316 Ti (99% match)
Fe:  66.83 ± 0.10%
Cr:  16.76 ± 0.07%
Ni:  11.64 ± 0.07%
Mo:   2.13 ± 0.01%
Mn:   1.84 ± 0.07%
Ti:   0.30 ± 0.06%
Cu:   0.30 ± 0.03%




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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 uAmp
Power: 4 W
5 positions filter changer

X-Ray Detector
Type: Fast SDD (optional PIN)
Area: 25 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
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

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