



Advanced XRF equipment and solutions

DESIGNED FOR
HIGH-ACCURACY
ANALYSIS OF
**PRECIOUS METALS
AND JEWELRY**

ElvaX
Jewelry Lab



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ElvaX Jewelry Lab is aimed on high-accuracy analysis of jewelry and precious metals. Measurement process only takes several seconds. The result is shown in both percent share and karats. ElvaX Jewelry Lab is also capable of detecting coatings and nonstandard alloys. This instrument can be operated either using the embedded computer with the high-resolution touchscreen display, or using a PC with ElvaX™ software installed.

ACCURACY

Analysis accuracy of precious metals and jewelry is better than 0,1%

SPEED

The whole measurement process takes just several seconds

COMPLETENESS

Integrated computer, high-accuracy scales, printer and a rechargeable Li-ion battery

The integrated CCD camera makes it possible to target the required spot of the sample undergoing analysis.

Automatic collimator changer allows you to select the required measurement spot diameter.



Precious Alloys

5/27/2013, 1:19 PM [SSS-7](#)

14.0K Gold
Plating not detected
3.27 g

Au: 58.51 ± 0.04%
Cu: 33.31 ± 0.04%
Ag: 8.18 ± 0.03%

START

The screenshot shows a software interface for 'Precious Alloys'. It displays a date and time (5/27/2013, 1:19 PM) and a sample ID (SSS-7). The analysis results for '14.0K Gold' are shown, including 'Plating not detected' and a weight of '3.27 g'. The composition is listed as Au: 58.51 ± 0.04%, Cu: 33.31 ± 0.04%, and Ag: 8.18 ± 0.03%. A circular image of the sample is visible on the right, and a green 'START' button is at the bottom.



- ✓ High speed and accuracy
- ✓ Intuitive interface
- ✓ Autonomous operation as well as connected to a PC
- ✓ Coatings detection
- ✓ Compact, doesn't take much space on a desk or a counter
- ✓ Leaded glass to keep analyzed items always in sight
- ✓ Customer display



14 KARATT GOLD ANALYSIS RESULTS

	Au	Ag	Cu
1	58.55	8.21	33.24
2	58.59	8.18	33.23
3	58.63	8.2	33.17
4	58.6	8.16	33.24
5	58.56	8.19	33.25
6	58.61	8.22	33.17
7	58.64	8.18	33.18
8	58.58	8.17	33.25
9	58.59	8.24	33.17
10	58.63	8.16	33.21
Average	58.6	8.19	33.21
Std. deviation	0.03	0.03	0.04

Digital X-Ray Source digiX-40

Anode: W

Voltage: 40 kV

Current: 200 uAmp

Power: 4 W

5 position collimator changer from 1 to 10mm

X-Ray Detector

Type: Fast SDD (optional Si-PIN)

Area: 25 mm² (6 mm² for Si-PIN)

Energy resolution: 140 eV (165 eV for Si-PIN) at Mn Ka

Electronics

DPP: proprietary DAS (Dynamically Adaptive Shaping) type

MCA: 4096 channels

General

Dimensions: 280 x 385 x 200 mm

Analytical chamber: 185 x 212 x 90 mm

Weight: 7 kg

Power supply: 90 – 240 V, 50/60 Hz

Power consumption: 40 W

Battery: 6 hours continuous operation

Software

Operating system: Windows EC

Analysis algorithm: Fundamental parameters (FPA)

Connectivity

Data transfer: 2 USB ports, Micro SD, Ethernet

Data input: Keyboard and mouse can be connected for data input



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