Elvatech

Advanced XRF equipment and solutions

ElvaX Basic

COST EFFECTIVE BENCHTOP EDXRF SPECTROMETER FOR THE BASIC APPLICATIONS

ES France - Département Bio-tests & Industries
127 rue de Buzenval BP 26 - 92380 Garches

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e-mail : bio@es-france.com
Site Web : www.es-france.com

ACCURACY

With advanced hardware and comprehensive software, the ElvaX Basic offers the most precise and accurate analysis of materials

SPEED

Dynamically Adaptive Shaping (DAS) DPP developed by Elvatech makes the ElvaX Basic the fastest Si-PIN diode based analyzer on the market

STABILITY

Thanks to the digiX-40 digital X-Ray source, automatic temperature correction, and automatic calibration adjustment, ElvaX Basic offers long-life reproducibility of the analysis without the need to re-calibrate the system

Just connect your ElvaX Basic to a PC via the USB port, switch it On, and run the ElvaX software. All you need to get the composition of your sample!

Our priority is to minimize downtime of our instruments by efficient and timely service and delivery.

In the lab or in the production facilities, with ElvaX Basic you can get the performance and precision of an expensive full-size benchtop spectrometer at a considerably lower cost.

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Meet the basic XRF system for Your lab!

ElvaX Basic is a compact cost effective Energy Dispersive X-ray Fluorescence (EDXRF) spectrometer ideally suited for both qualitative and quantitative analysis of solids, liquids and powders in the element range from Cl (Z=17) to U (Z=92) in a wide range of concentrations.

- Low cost
- High speed and accuracy
- Compact. Doesn't occupy much space on a desk
- Ergonomic design
- High-performance analytical software included

ElvaX Basic is a cost effective high-performance solution to be applied in such spheres as jewelry, alloy sorting and express QC.

ElvaX Basic combines powerful analytical software toolkit with an easy-to-use interface, allowing even novice operators to perform any necessary measurements in minutes!

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Digital X-Ray Source digiX-40

Anode: W
Voltage: 40 kV
Current: 200 uAmp
Power: 4 W

X-Ray Detector

Type: PIN
Area: 6 mm2
Energy resolution: <180 eV at Mn Kα,
Count rate: 500 000 cps

Electronics

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

General

Dimensions: 430 x 340 x 200 mm
Weight: 18 kg
Power supply: 90 – 240 V, 50/60 Hz
Power consumption: 40 W

Software

Operating system: Windows XP/Vista/7/8/10
Analysis algorithms: Fundamental parameters (FPA),
Empirical (regression) calibrations, Manual spectra comparison

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