



Advanced XRF equipment and solutions

# ElvaX Basic

**COST EFFECTIVE BENCHTOP  
EDXRF SPECTROMETER  
FOR THE BASIC APPLICATIONS**



## 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.**



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 S (Z=16) 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, Rh, Ag  
Voltage: 40 kV  
Current: 200  $\mu$ Amp  
Power: 4 W

### **X-Ray Detector**

Type: Fast SDD  
Area: 25 mm<sup>2</sup>  
Energy resolution: 140 eV at Mn K $\alpha$ ,  
85 eV at Al K $\alpha$   
Count rate: 500 000 cps

### **Electronics**

DPP: proprietary 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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