

Rapid | Accurate | Non-destructive



EDX 6000B

X-ray Fluorescence Spectrometer

EDX6000B



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EDX 6000B X-ray Fluorescence spectrometer uses convenient 7 sample auto-carousel for simultaneous XRF analysis of multiple samples. The instrument features low-energy X-rays specifically for excitation of light elements such as Si, S, Na and Mg; and with automatic spectrum stabilizing EDX 6000B delivers accurate results for light elements testing. UHRD detector provides excellent energy linearity, energy resolution and high peak-background ratio. Thanks to multi-parameter linear regression method, the absorption and enhancement effects between elements are reduced.

Advantages

- Highly efficient Varian end window x-ray light tube
- High-performance electronic cooling UHRD detector
- Signal-to-Noise Enhancer
- CMOS HD camera
- Collimator and filter
- Triple safety protection mode
- Computer
- Vacuum Pump



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Configuration

Measurement principle	EDXRF (Energy Dispersive X-ray Fluorescence)	
Applicable sample type	Solid, liquid, powder	
Measurement range	Na to U	
Detection limit	ppm – 99.99%	
Resolution	140±5eV	
Testing time cost	60-200 Seconds	
Precision	0.05% (content≥96%)	
Dimension	568*325*512mm (W*H*D)	
Key Components		
X-ray light tube	Tube voltage	5kV-50kV
	Tube current	1-1000 μ A
High voltage generator	Maximum voltage	50kV
	Stability	0.001% per 8 hours (temperature: 20℃ ± 0.2℃)
Detector	SDD (Silicon Drift Detector)	
Collimator & Filter	Automatic switch	
Sample chamber	Number of Sample-cup	Automatic switch of ten sample-cups
	Sample observation	CMOS HD camera
	Sample chamber dimensions	260mm(diam)*38mm(height)
	Sample-cup dimensions	44mm(diam)*22mm(height)
	Vacuum Unit	For high-sensitivity analysis of light elements
Software		
Qualitative analysis	Measurement and analysis of measured data	
Quantitative analysis	Calibration curve method	
Utility	1.Monitoring of operating condition of the instrument	
	2.Function of tabulating the results of analysis	
Installation Requirements		
Temperature	15℃~30℃	
Humidity	35%~70%	
Power input	220V (optional: 110V)	

