

## EDX 8300 X-ray Fluorescence Spectrometer



### Application:

ROHS,toy safety,electronics,ceramics and plastics,leather jewelry,environmental protection,food safety,plating thickness,metal alloy and so on.

### Technical specification:

- Measurable element: element S (sulfur) - element U (uranium),total 75 elements.
- Element content:2 PPM - 99.99%;
- Measurement time: 100-300 Seconds
- Energy Resolution: 149  $\pm$  5 ev

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- X-ray tube maximum output current: 1mA;
- High voltage maximum output power: 50w(Voltage:5-50Kv Current:50-1000uA)
- Sample chamber size: 610mm\*320mm\*100mm
- Volume: 700mm\*430mm\*400mm
- Weight: 68kgs

#### Main Feature:

- EDX8300 is a special product which designed by ROHS, EN71 environmental directives.
- Break the traditional instruments' straight design, adopt the streamlined design in overall body, really fashion and simple.
- Adopt Newest Si-pin detectors, Cooling by electric rather than liquid nitrogen, small size, accurate data analysis, and low speed in maintenance cost.
- Using self-developed SES signal processing system, could effectively improve the sensitivity in measurement, and give an accurate measurement.
- One-touched automatic test, more easier operation, more convenient, and more humane.
- Seven kinds correct systems for lighting path correction, could be switched automatically by different kinds of sample.
- Multiple protection design against radiation leakage, own the highest level among the similar products in same level.
- Advanced integrated radiating design, which greatly improves the whole cooling performance, and ensures the safe operation of the core components.
- Unique movement temperature control technology, which ensures the safe and reliable operation of the X-ray source, extends its long-life time, and reduces the using cost.
- Multiple protection system in instrument parts, could control the entire process through Software, which will make the instrument more stable and secure while working.
- Special test software for RoHS, standard window design, friendly interface, easy Operation.
- Adopts USB2.0, effectively ensures the data accurate and rapid transmission.

#### Main Configuration

- Si-pin Electric Cooling Semiconductor Detectors: (The Newest Detector Type) Si-pin Electric Cooling semiconductor detector; Resolution:  $149 \pm 5$  Electron Volts Amplifier Circuit Modules: Detect the sample feature X-ray; Enlarge the collected Information.
- X-ray Excitation Device: Filament Current Maximum Output: 1mA; Belongs to the semi-loss components, Lifetime use more than 20,000 hours.

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- High Voltage Transmit Device :  
Maximum Voltage Output: 50kV.  
Minimum 5kv Controllable Adjustment.  
Overvoltage Protection by itself.
- Muti-channel Analyzer:  
Convert analog signal into a digital signal,and send the results to the host computer Software.  
Maximum Channels Number:4096.  
Including the signal enhancement processing.
- Light Path Filtering Module  
Reduce the interference of the X-ray light send,ensure the accurate detector signal data.  
Integration the collimator and the filter.
- Collimator Automatically Switch Module  
Up to six options, caliber are 8-1#, 8-2#, 8-3#, 3# ,1#, 1-2v#.
- Filter Automatically Switch Module  
Free selection and switching of the five kinds filter.
- Free Combination Module between Collimator and Filter  
Up to dozens free combination between collimator and filter.
- Automatically Curve Selected Module  
Select the working curve automatically,without manually operation.Avoid human error,perfect combine the automation with the intelligent operation,make it more user-friendly, and more convenient.

**Working Conditions:**

Working temperature:15-30℃

Relative humidity: 40%~50%

Power Source: AC :220V ±5V

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**Sample configuration**

Standard samples be used to making working curve

Sample Chamber:Open Type Large style sample chamber

Standard Sample:EU Standard Sample EC680K

Pure silver samples

**Warranty and After-sale Service**

- Free Training to customers.
- Free training in user's location about installation,debug,test,training and technical services.
- We provide one year warranty against normal daily use problems or material defects,but the term is there are no other person disassemble action besides our own engineers.
- Lifelong Maintenance.
- Provide Free Software Upgrades;
- Provide the most effective technical services,and respond customers within 24hours.

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