

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 ± 5 eV
- X-ray tube maximum output current: 1 mA;
- High voltage maximum output power: 50W (Voltage: 5-50 kV Current: 50-1000 μ A)
- 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 improve the whole cooling performance, and ensure the safe operation of the core components.
- Unique movement temperature control technology, which ensure the safe and reliable operation of the X-ray source, extend its long-life time, and reduce 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, friend interface, easy Operation.
- Adopts USB2.0, effectively ensure 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 ± 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.
- 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°C
Relative humidity: 40%~50%
Power Source: AC :220V $\pm 5V$

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 24 hours.