

R-461 RoHS Testing Instrument

- · Meets RoHS/ELV screening requirements
- · Energy-dispersive X-ray fluorescence analysis device

Application Fields

Elemental Analysis Range > S~U Detection Limit > 1ppm Content • Any number of selectable analysis and identification models • PPM -99.99% • Mutually independent matrix effect correction module

- RoHS Testing
- Footwear Leather
- Automotive ELV
- Archaeological Analysis
- Jewelry
- Refractory Materials

X-ray Fluorescence Spectrometer analysis offers advantages such as simple sample preparation, rapid analysis, a wide range of analyte concentrations, good reproducibility, and high accuracy. With the continuous promotion of X-ray fluorescence spectroscopy analysis technology, the use of X-ray fluorescence spectrometers has become a primary means of quality control in many industries.

The rapid development of the high-tech industry has led to the production of numerous electronic products and other industrial goods, making life more convenient for people. However, once these products are discarded, the toxic substances they contain may pose a threat to the environment and human health. To address this challenge, various regions worldwide have enacted environmental regulations to restrict the use of hazardous substances in various products. Today, testing the environmental compliance of incoming materials and products is not only a responsibility for businesses towards the environment but also a pass for domestic and international trade. The R-350 provides an optimal solution for hazardous substance detection, contributing to the development of multiple fields.



Instrument Features

- Non-destructive, fast, and accurate analysis of samples
- · High precision, high resolution, high reliability
- · User-friendly interface, convenient operation, high-definition camera



- · Power supply requirements: AC220V ±5V 50/60HZ
- · No nearby high-power electromagnetic and vibration interference sources
- · Humidity conditions 40%~70% (non-condensing)
- · Rated power: 100W

Performance and Principle Features

- Analysis range: $1ppm \sim 100\%$
- · Accuracy : RSD≤0.05% Ag≥90%
- · Physical states of tested samples: solid, powder, liquid
- High-voltage power supply : 5~50KV
- · Tube current : $5\mu A \sim 1000\mu A$
- · High-definition camera

- · Collimator / filter automatic switching system
- · Imported Amptek Si-pin detector from the United States
- · 4096 channel multi-channel analyzer JPSpec-DPP



- Sample chamber size: 439*300*150mm
 - Instrument dimensions: 550*410*320mm

Instrument Specifications

· Instrument weight: 45kg

Environmental Requirements

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- Resolution: 144±5eV
- Test time: 30~200s

• Ambient temperature: 10~30°C • Relative humidity: 35%~70%

• Multivariate non-linear regression program

• Equipped with advanced original imported electrically refrigerated detector, energy resolution reaches 144±5eV

•Latest 4096-channel digital multi-channel signal processor, achieving optimal peak-to-background ratio

- Food Safety
- Ore Analysis
- Metal Alloys
- Petrochemicals
- Coating Thickness Measurement
- Environmental Testing





