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Ocean Series RoHS detector XRF-W701

RoHS testing applications

1, easy to deal with RoHS Directive
2, the best tool for quality control of
3, to help you avoid trading risk
4, the protection of our environment

I. Introduction

In recent years, with the continuous improvement of people's awareness of environmental protection, environmental pollution problems caused by electrical and electronic products more and more attention. Restriction on the use of certain hazardous substances in electrical and electronic products, has become the new initiatives taken by countries in the field of environmental protection, have introduced mandatory technical regulations.

RoHS is a mandatory standard developed by EU legislation, to regulate the materials and process standards electrical and electronic products, electrical and electronic products aimed at the elimination of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers 6 substances in and focus on the provisions of the lead content does not exceed 0.1%.

National Standard SJ / T 11365-2006 "Detection of electronic information products of toxic and hazardous substances." RoHS requirements for toxic elements test method given limited. Wherein the X-ray fluorescence spectrometry (XRF) as one of the most efficient and convenient method is developed for quick screening method. Using X-ray fluorescence spectrometry (XRF) can lead (Pb), mercury (Hg), cadmium (Cd), chromium (Cr), bromine (Br) and other elements for accurate testing.

Second, the solution

Ocean Series XRF-W701 is West Van technology combined with RoHS testing standards and customer needs, independent research and development of a RoHS detector, X-ray fluorescence spectrometry detection technology, the introduction of US-made Si-PIN detector, which greatly improves the detection range and accuracy, It can accurately detect lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers and other harmful heavy metals, widely used in electronic products, toys manufacturing, metal manufacturing, customs, quality inspection institutions.

Ocean Series RoHS detector XRF-W7

Ocean Series RoHS XRF-W701 detector performance characteristics

1 , the unique hardware configuration

(1) the overall steel structure, industrial computer integration, dual touch-screen display design, operation smooth and convenient;

(2) the introduction of US-made Si-PIN detector, which greatly improves the detection range and accuracy;
(3) High-definition camera positioning systems, sample observation is clear, accurate positioning;
(4) the core parts of individual modules designed to avoid electromagnetic interference with each other to improve the detection limit of the instrument, reducing the failure rate of the instrument;
(5) having a core hardware real-time temperature monitoring, analysis and design through the heat source and real-time control software, the hardware will be promptly discharged heat, reduce the impact of probe produced by temperature changes.

2 , superior software design

(1) provides an open curve calibration function, users can tailor the best detection method and control program of hazardous substances;
(2) the strength of the unique elements of the secondary extraction algorithm to improve the detection limit of trace elements;
(3) software integrates the same pattern multiple limits of determination function;
(4) software, POST and fault diagnosis function to ensure timely exclude the instrument is always running at peak working condition and abnormal;
(5) analysis software is due to different samples materials, shapes, sizes and automatically set the tube voltage \ pipe flow, both to extend the service life of the light pipe can give full play detector performance, dramatically improve the measurement accuracy;
(6) integrated statistical functions to facilitate the sector through quality screening statistics supplier, material name, components and test status through different time periods;
(7) customized according to user needs its own test report output formats (Excel, PDF, and lists, etc.), in line with a variety of statistical requirements.

Ocean Series RoHS detector XRF-W7 technical indicators

Elemental analysis range: from sulphur (S) - between elements uranium (U) of
Sample Range: solid, liquid, powder
The minimum detection limit: Minimum 2ppm
X-ray source: X-ray tube (no radiation)
X-ray tube window material: metal beryllium window
X-ray tube suitable for life: more than 20,000 hours
Detector: Electric Cooling Si-Pin detector (US imports)
Best Resolution: 145 ± 5eV
High voltage power supply: 0-50kev, 0-2mA
High-voltage protection: overvoltage self-protection, self-recovery
Camera: high-definition camera positioning system
Operating System: Windows7 integrated industrial computer, no external computer
Collimator: spot φ1mm, 3mm, 5mm (the software automatically selects)
Input Power: AC 220V ± 10%, 50Hz (recommended configuration clean power supply)

Rated power: 128W

Instrument size: 650mm * 450mm * 350mm

Instrument Weight: about 32Kg

Radiation protection standards: the standard GB18871-2002 GBZ115-2002