

PeDX CSA 600 Portable RoHS Analyzer



Product advantage

The full English name of RoHS is restriction of hazard Substance, the full name of Chinese is 《the directive on the restriction of the use of certain harmful ingredients in electronic and electrical equipment》. It is a mandatory standard formulated by EU legislation and officially implemented on July 1, 2006. It is mainly used to regulate the material and process standards of electronic and electrical products, so as to make them more conducive to human health and environmental protection. The purpose of this standard is to eliminate lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (Cr6 +), polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in electrical and electronic products.

LANScientific PeDX CSA analyzer can quickly and efficiently detect toys, clothing, electronic equipment and other consumer products to find out whether lead (Pb), cadmium (Cd), arsenic (As), mercury (Hg), chromium (Cr) and other toxic metals meet the requirements of RoHS regulations. It is an ideal tool for manufacturers, raw material suppliers and recyclers.



Application range

The instrument is mainly used for the detection of hazardous elements specified in RoHS, halogen-free and ELV environmental protection directives

- 1.Products controlled by RoHS Directive: large household appliances, small household appliances, information technology and communication equipment, electric tools, toys and other equipment;
- 2.Products controlled by halogen-free Directive: products with Flame Retardants Containing Cl, Br and other elements as raw materials;
- 3.Screening and analysis of ELV instructions: structural analysis of various mechanical parts and detection of coating thickness and adhesion amount of chemical synthetic outer film.

Technical parameters and specifications

Instrument size	200 (L) *200 (W) *268 (H)
Sample cabin size	170 (L) *130 (W) *60 (H)
Total weight	4.1kg
X-ray tube of excitation source	50KV max, 200μA max, upper excitation power 4W
Detector	Si-pin Detector
Operating system	based on i.mx6 Quad quad core cortex-a9 processor
Dedicated analysis level operating system	32GB system memory
Power supply system	intelligent battery with msbus bus, real-time monitoring battery and standby battery can directly check the remaining capacity of battery, which conforms to regulations on transportation of aviation dangerous goods. Single battery can work for about 8 hours
Resolution	< 136ev
Data transmission USB	Bluetooth
Operating environment temperature	-20 ℃ ~50 ℃
Operating environment humidity	10% - 90% relative humidity, non condensing
Display	5.7 *retractable color touch screen display
Measurement time	user defined
Safety protection	built in ray protection device (automatic cut-off) Safety interlock, only when power is on can the instrument be opened (sealing performance),Radiation indicator
measuring range	Br、Cr、Pb、Hg、Cd、Cl

Product detail

Performance advantages

- 1.One key intelligent operation
The whole analysis process can be completed in a few seconds, and the operation is simple, even for non-technical personnel
- 2.Easy to customize
On the basis of testing, it provides a variety of user-defined settings, which can change the test conditions according to the needs of testing, and also change the threshold according to the needs of screening, so as to realize the personalized screening of different materials and different elements.
- 3.Multi form data output
The analysis data report can be made in PDF format or excel format. When you export data in Excel format, you can also confirm and edit the data in detail in the table. Users can also customize and create professional reports, including company logo, company address, test results, spectrogram and other sample information (such as product description, origin, batch number, etc.).
- 4.Accurate and reliable qualitative and quantitative methods
The integration of super FP algorithm, correction curve method and other advanced algorithms makes the instrument not only faster, more accurate and more consistent.

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