Xenemetrix
The Power to Change Energy Into Information

RoHS

EDXRF Bench-Top Spectrometer
Pre-calibrated for RoHS

- Pre calibrated for restricted materials mandated under RoHS
- Detection levels from ppm to 100%
- Fast and non-destructive analytical method
- Client server mode for remoted sites

RoHS Spectrometer

The Restriction of Hazardous Substances (RoHS) is a set of standards that limit the use of certain toxic metals in electrical, electronic equipment and other consumables. System provides accurate analysis of restricted elements such as: Lead (Pb), Mercury (Hg), Cadmium (Cd), Chromium (Cr), Bromine (Br). The RoHS Spectrometer uses a high resolution detector, an integrated camera, and a powerful X-ray tube with variable spot sizes to accommodate samples of various sizes and to measure the existence of extremely low levels of restricted substances.

Accurately analyze
Restricted elements Pb, Hg, Cd, Cr, Br

Sample camera
Integrated camera and micro X-ray spot for full identification of the area of interest

Ease-of-use
Automatic matrix identification allows operation of non-technical personnel with high degree of confidence

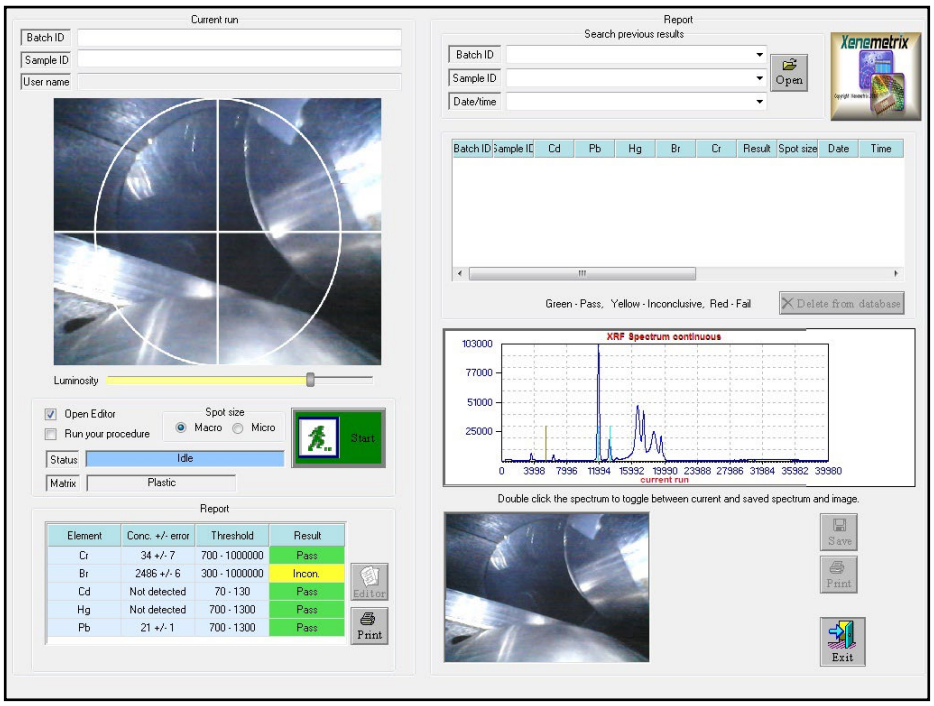
RoHS designated software
Intuitive and user-friendly proprietary software

Substances banned under RoHS
Lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (CrVI), polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), and four different phthalates (DEHP, BBP, BBP, DIBP).

RoHS standards reports
Producing accurate printed reports describing restricted elements detection level in reference to RoHS standards

Easy-to-use Software

The designated software automatically detects the material type and selects the compatible testing methods. X-ray scan is being active and quickly a spectrum is presented and analysed. The tests are pre-calibrated according to RoHS standards and thresholds, while the resulting reports present the list of detected restricted elements concertation in compare to the specific defined range with accurate pass or fail results per element. A sample camera is constantly active, enabling to simultaneously view the examined sample spot location on the substrate. Each test can be individually saved into a library with a specific unique name, saving the spectrum and the analysis results.
This efficient pre-calibrated RoHS dedicated software provides an easy to use GUI and platform to operate and collect your RoHS tests.



Key Applications

RoHS/WEEE compliance testing and screening of regulated elements (Pb, Hg, Cd, Cr, Br)

RoHS Technical Specifications

	PD Version	SDD Version
Detectable Range	Pb, Hg, Cd, Cr, Br	Pb, Hg, Cd, Cr, Br [Na (11) - U (92)]
Detectable Concentration	ppm - 100%	
X-ray Tube	Mo - anode	
X-ray Source	50kV, 50W	
Excitation Type	Direct with filters	
Spot Size	Micro spot - Ø 1 mm. Macro spot - Ø 8 mm (On a sample)	
Stability	Precision 0.1% at ambient temperature	
Detector	PIN diode thermoelectrically cooled	SDD version
Resolution (FWHM)	155 eV ± 10eV at 5.9 keV.	135eV ± 5eV
Autosampler	One position	
Work Environment	Air/ Helium	
Customized Tube Filters	Six software selectable	
Customized Collimator	0.3 mm - 3 mm	
Power Supply	110-230VAC 50/60Hz	
Pulse Processing	Digital Pulse Processor	
System Dimensions	Unpacked: 55W x 55L x 32H, Packed: 80W x 80L x 65H	
System Weight	50kg (net), 90kg (gross)	
Chamber Dimensions	22 x 22cm, H=5cm	
Camera	CCD Camera	
Computer	Integrated PC	
Operating Software	User-friendly Operator mode (Microsoft Windows™ OS)	
Control	Automatic control of excitation, detection, sample handling and data processing	
Spectrum Processing	Automatic escape peak and background removal. Automatic peak deconvolution. Graphical statistics	
Quantitative Analysis Algorithms	Multi-element regression with inter-element corrections (six models available). Gross, net, fit and digital filter intensity methods	

Distribuce v ČR a SR:

BAS Rudice s.r.o., U Vodárny 1, Blansko. ČR

Tel: +420 541 126 090

E-mail: bas@bas.cz

Xenemetrix combines the latest technological developments with innovative engineering, to provide cost-effective solutions to a wide range of industries and applications.