Xenemetrix
The Power to Change Energy Into Information

RoHS Vision
X-RoHS⁺ SDD

Ensure Compliance with Regulations for Hazardous Substances in the Fastest & Easiest Method
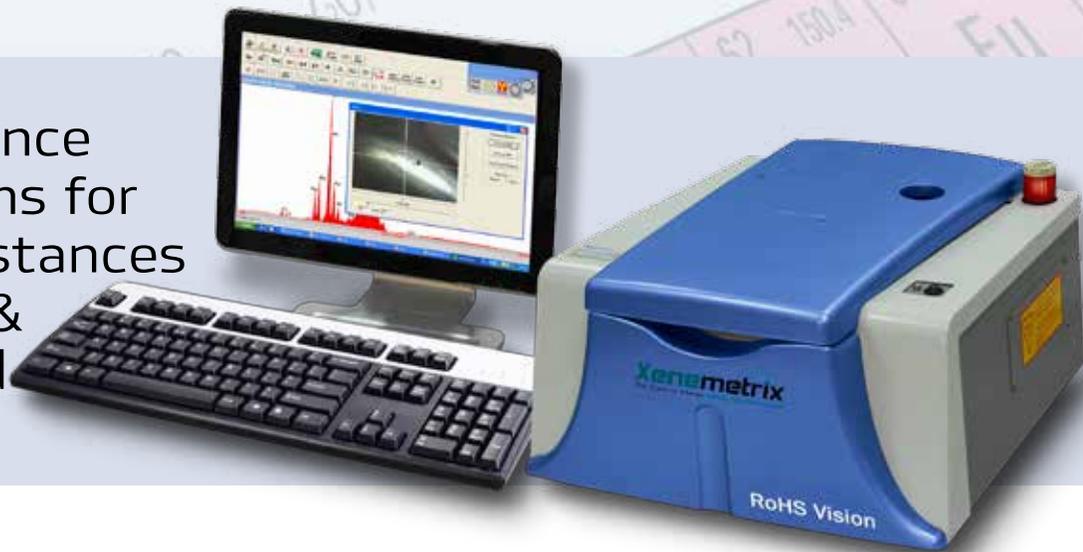
RoHS Vision

RoHS Vision

- **Accurately analyze** restricted elements in no time!

- Integrated camera and micro X-Ray spot for full identification of the area of interest.

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

- Intuitive and user-friendly proprietary software.

- Robust design.

X-RoHS ⁺ SDD Advantages:

- Non-destructive elemental analysis F(9) - Fm(100) from sub-ppm to 100% concentrations.

- Down to 125eV resolution.

- Close-coupled Geometry.

- Light elements detectors option.

- High count rate combined with highly innovative new digital technology.

RoHS Vision / X-RoHS$^+$ SDD

The Restriction of Hazardous Substances (RoHS) is a set of standards that limit the use of certain toxic metals in electrical and electronic equipment.

Xenemetrix's new RoHS Vision 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.

The fast quantitative analysis allows manufacturers to comply with the new regulations, while automatically identifying the matrix components and selecting optimal acquisition parameters for samples of various matrices, thicknesses, and sizes.

RoHS Vision fully complies with the latest RoHS 2 2011/65/EU directive and is ready for future regulation updates and upgrades.

X-RoHS$^+$ SDD Advantages:

In addition to the RoHS analysis, this innovative analyzer provides full qualitative and quantitative analysis of elements from Flourine (F) to Fermium (Fm) using state-of-the-art Silicon Drift Detector.

While Xenemetrix does offer a system for RoHS analysis, the recent recast of RoHS regulations will affect a wider range of industries, thus the new system, being a more powerful and versatile, will be able to cater for the wider range of industries.

Substances regulated by RoHS

Element	Maximum Limit ppm
Lead - Pb	1000
Mercury - Hg	1000
Cadmium - Cd	100
Hexavalent Chromium - Cr(VI)	1000
Polybromodiphenyl Ether - PBDE	1000
Polybromobiphenyl - PBB	1000

Software Environment (GUI)

Simple, Straight Forward, User Friendly nEXt™ Platform.

X-Ray Macro Spot

X-Ray Micro Spot

Xenemetrix RoHS Vision / X-RoHS$^+$ SDD Spectrometer
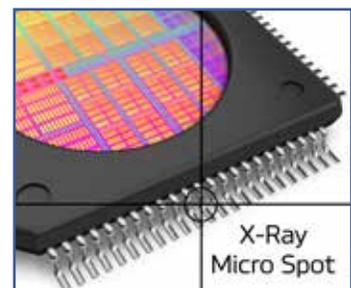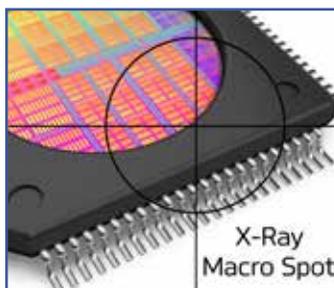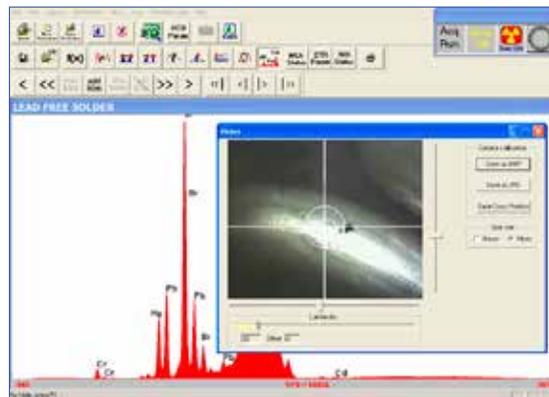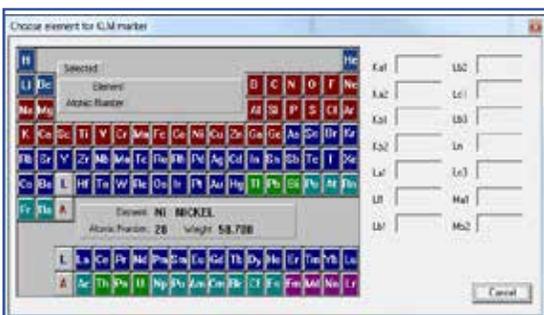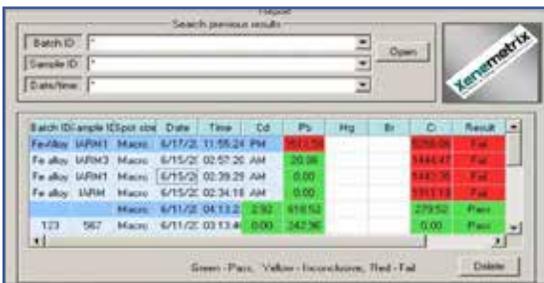
Systems Specifications

System Specifications	RoHS Vision	X-RoHS$^+$ SDD in RoHS Environment	X-RoHS $^+$ SDD Full Analysis Environment
Measurement Capability			
Elements of Interest	Pb, Hg, Cd, Cr, Br		F(9)-Fm (100)
Detectable Concentration	Sub ppm - 100%		
X-Ray Generation			
X-Ray Tube	Mo - anode		
X-Ray Source	50kV, 50W		
Excitation Type	Direct with filters		
Spot Size	Micro spot - ∅ 1 mm. Macro spot - ∅ 8 mm (**On a sample**)		
Stability	Precision 0.1% at ambient temperature		
X-Ray Detection			
Detector	PIN diode thermoelectrically cooled	Silicon Drift Detector (SDD)	
Resolution (FWHM)	155 eV ± 10eV at 5.9 keV	125eV ± 5eV	
General Features			
Work Environment	Air or Helium		
Tube Filters	6 software selectable		
Power Supply	110-230VAC 50/60Hz		
Pulse Processing Digital	**(High speed digital multi-channel analyzer (DPP**		
System Dimensions (L x W x H, cm)	Unpacked: 55 x 55 x 32, Packed: 80 x 80 x 65		
System Weight	50kg (net), 90kg (gross)		
Chamber Dimensions	22 x 22cm, H=5cm		
Computer	Integrated PC, LAN & WiFi connectivity		
Software			
Operating Software	RoHS Software Package	nEXt™ analysis package, running under Microsoft Windows™ OS including basic fundamental parameters software & RoHS software package	
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	RoHS Software Package	Multi-element regression with inter-element corrections (six models available). Gross, net, fit and digital filter intensity methods	
Reporting	User-customizable data print out		
Options at Additional Cost	Professional Fundamental Parameters, GPRS module, Robust casing		
Remote Support	Integrated support abilities over the Web		
System Backup	Automatic Backup system for easy data restore		

The Power to Change *Energy Into Information*

Xenemetrix

Key applications

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

X-RoHS⁺ SDD Applications:

- **Petrochemical:** Sulfur and ULS in fuels, lube oils monitoring, additives, wear metals and others
- **Polymers:** plastics row material analysis, PVC, additives, traces and others
- **Metallurgical:** research and quality control of the various metal industry processes of stainless steels, cast irons, metal sorting and others
- **Mining & Minerals:** cement, limestone, sand, clays, bauxite, phosphate rock, gypsum and others
- **Environmental:** wastewater, RoHS compliance, air pollution, soils & grounds, emmission control and others
- **Coating Thickness & Thin Films:** analysis of multilayer coatings, steel coating, impurities and others
- **Food, Cosmetics and Pharmaceutical:** additives control, row materials, hazardous metals, packaging quality and others

Xenemetrix

Worldwide Distributions:

North America, Latin America, Europe, Asia, Australia, Africa & Middle East

Xenemetrix is a leading designer, manufacturer and marketer of Energy-Dispersive X-Ray Fluorescence (EDXRF) systems. With more than 30 years experience, Xenemetrix continues to develop highly innovative technologies and solutions suitable for today's ever-growing analytical challenges. Xenemetrix combines the latest technological developments with innovative engineering, to provide cost-effective solutions to a wide range of industries and applications.