

# Xenemetrix

The Power to Change Energy Into Information

## RoHS Vision

The Fast and Easy Method for Ensuring Compliance with Regulations for Hazardous Substances



- ▶ Get the restricted elements precisely analyzed in seconds!
- ▶ Automatic matrix identification allows non-technical personnel to operate the instrument with high degree of confidence.
- ▶ Integrated camera and micro X-Ray spot to fully identify the area of interest.
- ▶ Intuitive and friendly proprietary software.

## The Ultimate in Analytical Performance

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 state of the art technologies and innovative solutions for

today analytical challenges. Xenemetrix combines the latest technological developments and innovative engineering to provide cost effective solutions to a wide range of industries and applications.

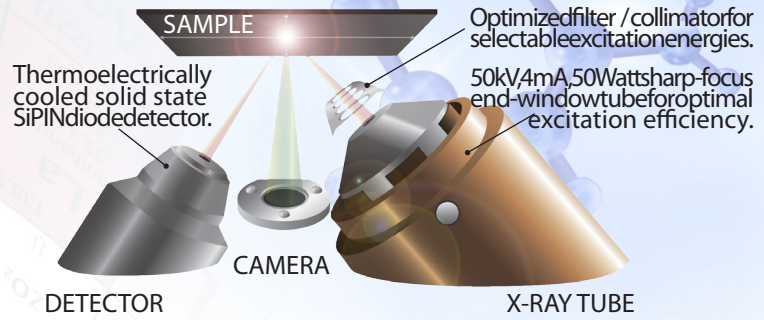
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# RoHS Vision

The Restriction of Hazardous Substances Directive (RoHS) restricts toxic metals in electrical and electronic equipment. Xenemetrix's new RoHS Vision uses a high resolution detector, a software integrated camera, and a powerful X-Ray tube with variable spot sizes to accommodate large and small samples and to measure extremely low levels of restricted substances.

The fast quantitative analysis allows manufacturers to comply with the new regulations. Automatically identifies the matrix components and selects optimal acquisition parameters for samples of various matrices, thicknesses, and sizes.



## Substances regulated by RoHS

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

## Key applications

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

## Limits of Detections

Application	ppm
<b>RoHS Polymer or Plastic (non PVC)</b>	
Pb	2
Hg	2
Cd	1
Cr	5-10
Br	2
<b>PVC (40% or more Cl)</b>	
Pb	7
Hg	7
Cd	1
Cr	15
Br	6



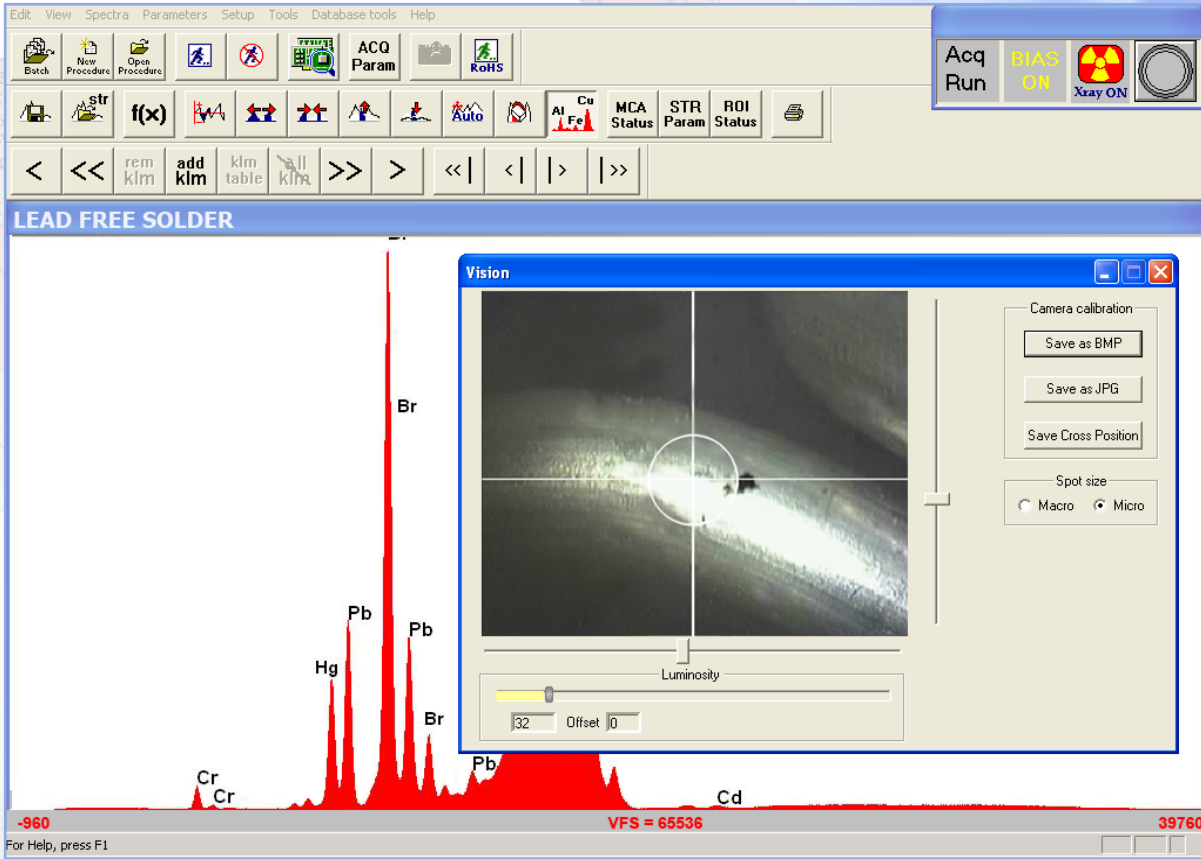
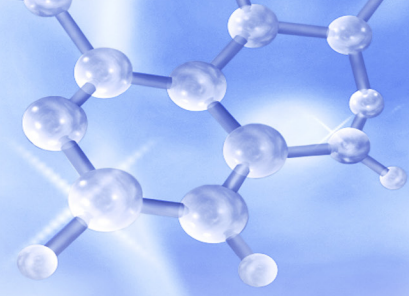
# RoHS Vision - Bench Top EDXRF Spectrometer

SYSTEM SPECIFICATIONS	
Measurement Capability	
Elements of Interest	Pb, Hg, Cd, Cr, Br.
Detectable Concentration	ppm - 100%.
X-Ray Generation	
X-Ray Tube	Mo - anode.
X-Ray Source	50kV, 50W.
Excitation type	Direct with filters.
Spot Size	Micro spot - d1 mm. Macro spot - d8 mm.
Stability	Precision 0.1% at ambient temperature.
X-Ray Detection	
Detector	PIN diode, thermoelectrically cooled.
Resolution (FWHM)	160 eV ± 10eV at 5.9 keV.
General Features	
Work atmosphere	Air.
Tube filters	6 software selectable.
Power Supply	115 VAC/60 Hz or 230 VAC/50 Hz.
Pulse Processing	Multi-channel analyzer.
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.
Software	
Operating Software	nExt™ analysis package, running under Microsoft Windows™ XP + basic Fundamental Parameters software.
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.
Reporting	User-customizable data print out.
Options at additional cost (contact us for pricing)	Professional Fundamental Parameters.

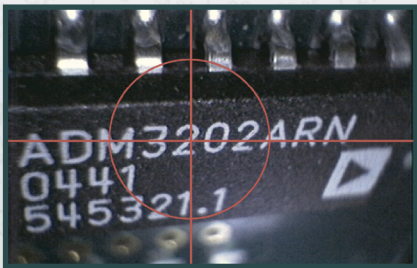


## Software environment (GUI)

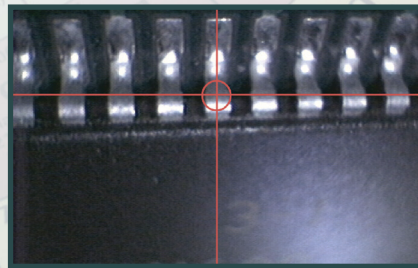
Simple, straight forward, user friendly nExt™ platform.



X-Ray Macro-Spot



X-Ray Micro Spot



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