

Compatible to WEEE and RoHS directives

Compatible to Green Procurement

Simple Analysis of such hazardous metals as Pb and Cd at ppm order



No liquid nitrogen required

SEA1000A II

Energy Dispersive Fluorescent X-ray Analyzer

HS (Hazardous Substance) Monitor

Reduced detector running costs since no liquid nitrogen is required.

Inexpensive

Fast

High counting circuit for shorter measurement times.



Important products can be measured non-destructively in the large chamber.

Large chamber

Simple

Measuring is easy with auto-correction software that minimizes effects from sample shape, thickness, and material.

High accuracy (peak separation software)

Difficult separation of spectra is possible with new digital peak separation software. (DPD: digital peak decomposition)

- Digital peak separation software (DPD) image.
- Spectrum by Si(Li) detector.
- Hg 200 ppm spectrum when large amounts of Pb is included in Soft PVC. ●
※ DPD (Digital Peak Decomposition)

High sensitivity

Shortest positioning of distances from a sample employing a large detector, enabling highly efficient detection of X-rays. Achieving the sensitivity that exceeds the Si(Li) detector.

- 5.8 ppm spectrum of Cd with polyethylene.

Large chamber that can easily fit a laptop computer. Approximately 370(15") (W) X 320(13") (D) X 155(6") (H) mm

Measurement data can be easily sent to a Word® format. Measurement results, spectral data, and sample images can be simultaneously sent.

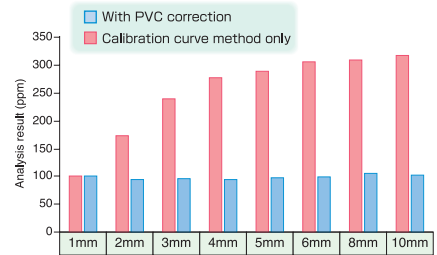
Measurement data can be automatically sent and saved in an Excel® worksheet.

Plastic standards and film thickness standards.

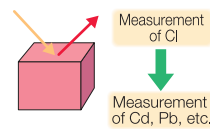
Performs corrections

Performs shape and thickness correction by scattered x-ray method. (Patent pending)

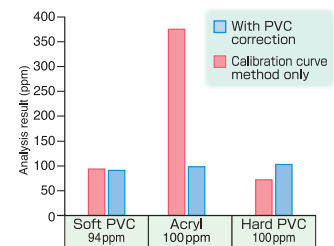
- Thickness correction effect of Cd 100 ppm in hard PVC.



Analyzes differences of materials and performs corrections. Corrects both soft and hard PVC. (Patent pending)



Measures the amount of chlorine before the hazardous substance measurement.



Measurement value varies greatly according to the chlorine concentration of the sample when using the calibration method.

Options

- Externally driven XYZ stage selected area measurement while keeping a sample in the sample chamber.

- Sample changer (turret) continuous measurement of up to 12 samples.

●SEA1000AII Specifications

Elements : Aluminum to Uranium	Sample Chamber : 370(15") (W) X 320(13") (D) X 155(6") (H) mm	Weight : 90Kg (200 lbs)
Sample type : Solid, Powder, Liquid	X-ray Station : Laptop	Power : AC 100 to 120V, 200 to 240 V ±10%, 10A
Source : Small air-cooled tube (Rh target) Voltage: 50kV, Current: 1mA	Qualitative Analysis functions : Spectrum measurement, Auto ID, Comparison display, KLM marker display, Subtraction display	Options: ● Spectrum matching software (material identification) ● Thin film FP software ● This film calibration curve software
Detector : Si semiconductor (No LN ₂ required)	Quantitative Analysis functions: Bulk FP, Calibration	● Externally driven XYZ stage
Analysis area : 1mm (40 mil) and 5mm (200 mil) (auto switching)	Statistics Function : Excel®	● Sample changer
Sample observation: Color CCD camera	Report Function Dimensions : Word®	● Inkjet printer
Filter : 4 filter auto switching	Dimensions : 900(35") (W) X 700(28") (D) X 460(18") (H) mm	

※ Windows®, Word®, and Excel® are registered trademarks of Microsoft Corporation.

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