

# SII



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

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.

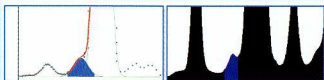
# SEA1000A HS Monitor

Features of the SEA1000A

Hazardous substance monitor requires no liquid nitrogen that greatly controls running costs

## High accuracy (peak separation software)

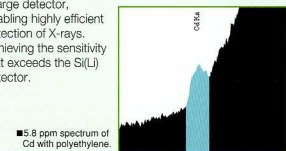
Difficult separation of spectra is possible with new digital peak separation software. (DPD: digital peak decomposition)



- 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.

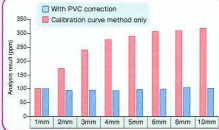
- Large chamber that can easily fit a laptop computer. Approximately 370(15"\*)W)X320(13"\*)D)X155(6"\*)H)mm

- Measurement data can be easily sent to a Word<sup>®</sup> format. Measurement results, spectral data, and sample images can be simultaneously sent.
- Measurement data can be automatically sent and saved in an Excel<sup>®</sup> worksheet.
- Plastic standards and film thickness standards.

## Performs corrections

### 1. Shape and thickness correction

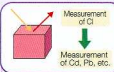
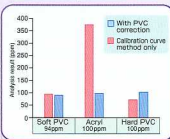
Performs shape and thickness correction by scattered x-ray method. (Patent pending)



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

### 2. PVC correction

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.

## SEA1000A Specifications

Elements : Sulfur to Uranium	Sample Chamber : 370(15"*)W)X320(13"*)D)X155(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 (Pb target)	Qualitative Analysis functions : Spectrum measurement, Auto ID, Comparison display, XLM marker display, Subtract display	Options : ● Spectrum matching software (material identifier)
Voltage: 50kV, Current: 1mA	Quantitative Analysis functions : Bulk FP, Calibration	● Thin film FP software
Detector : Si semiconductor (No LN <sub>2</sub> required)	Statistics Function : Excel <sup>®</sup>	● This film calibration curve software
Analysis area : 1mm (40 mil) and 5mm (200 mil) (auto switching)	Report Function Dimensions : Word <sup>®</sup>	● Externally driven XYZ stage
Sample observation: Color CCD camera	Dimensions : 900(35"*)W)X700(27"*)D)X460(18"*)H)mm	● Sample changer
Filter : 4 filter auto switching		● Inkjet printer

※ Windows<sup>®</sup>, Word<sup>®</sup>, and Excel<sup>®</sup> are registered trademarks of Microsoft Corporation.

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