

Fluorescent X-ray Analyzer

EA1000VX/AIII

Faster, Simpler fluorescent X-ray analyzer

Formed by the voice of customers who use the SEA series

Measurement time of hazardous substances much less than conventional instruments

Improved ease-of-use with a material identification function, analysis line auto switching function, and easy-to-understand operation panel.

Compliant not only with environmentally controlled substances but other elements as well



EA1000VX
High end model

EA1000AIII
Standard model

Improved throughput by high speed measuring

Measuring time compared with conventional units for one sample, such as resins and metals, is markedly reduced; rapidly increasing the number of sample that can be processed in one day

	Cd, Pb, Hg, Br, Cr in plastic	Cd, Pb, Hg, Cr in high concentration Br, Sb plastic	Cd, Pb, Hg, Br, Cr in brass
EA1000VX	Approximately 30 sec	less than 120 sec	less than 200 sec
EA1000AIII	less than 70 sec	less than 210 sec	less than 800 sec
SEA1000AII	Approximately 100 sec	less than 360 sec	more than 2000 sec

Includes switching time, time (our recommended conditions) until reaching a statistical error (3 sigma) of 20mn/kg for Cd and 100 mg/kg for Pb, Hg, Br, and Cr

Material Identification Function

Identify material of a sample shortly after starting the measurement (within 25 sec). Classified by resin (PE, PVC), Al alloy, Fe alloy, Cu alloy, and Sn alloy. No problem in selecting an analysis recipe even without knowing the sample material

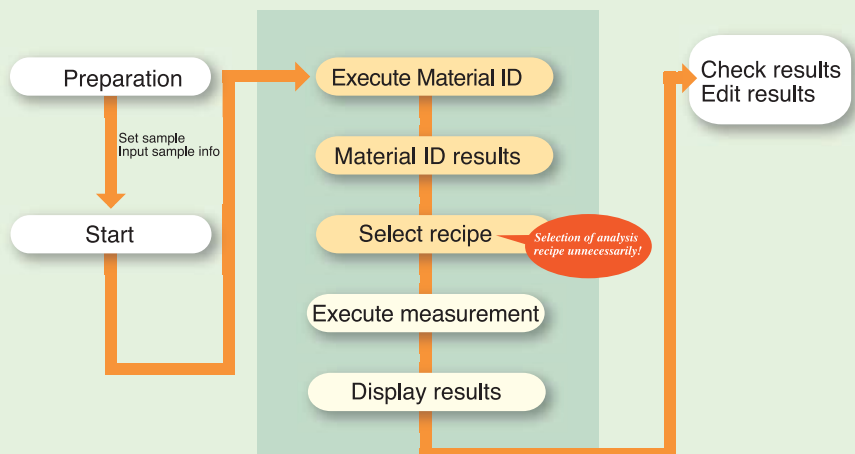
Material Identification Measure Mode

Identify material type of sample and automatically select recommended analysis recipe.

Material Identification Auto Measure Mode

Automatically selects the best analysis recipe after identifying type of material in a sample, then measures and displays results. Perform a sequence of

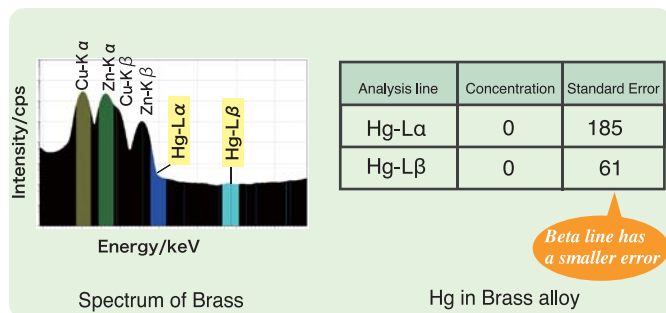
Flowchart of Automatic Material Identification Measurement (Example)





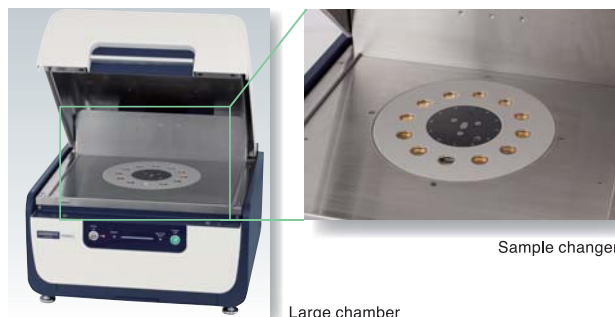
Analysis Line Auto Switching Function

Find overlapping peaks of elements contained and automatically select the analysis line with the smallest statistical error, which is linked to improvements in throughput and more effective precision



Large Chamber and Sample Changer (Optional)

Wide sample chamber lets you easily measure large samples. The sample changer lets you continuously measure up to 12 samples enabling simple setting of microscopic samples at accurate measurement locations.



Hazardous Substance Measurement Software Ver. 2

- Optimizes measurement time with Precision Control Software (Ver. 1 function)
- Central control of measurement data within a location that uses a data base (search, inspect, analysis, edit, print,create report)
- Function compares measurement results for identical samples previously measured
- Besides RoHS, Halogen, Toy, and Sb, Sn analysis, you can add any elements targeted for control

Enhanced analysis functions during measuring to satisfy the analysis professional

EA1000VX/AIII			
Elements	Atomic Number. 13 (Al) to 92 (U)	Qualitative analysis	Spectrum measurement, Auto ID, Comparison display, KLM marker display
Sample shape	Solids, powders, liquids	Quantitative analysis	Bulk Calibration and Bulk FP
Radiation source	X-ray tube (Rh target) Voltage: max 50kv	Hazardous substance measurement function	Environmentally controlled substance measurement software Ver. 2, Material ID, Analysis line switching, Peak separation display results function, Peak labeling function, etc
Detector	Current: max 1000uA Multi-cathode semiconductor detector (EA1000VX) Si semiconductor detector (EA1000AIII)	Data Processing	Microsoft® Excel, Microsoft® Word
		Options	
Collimators	1mm, 3mm, 5mm (Auto-switching)	Instrument dimensions	520 (W) x600 (D) x445 (H) mm
Sample observation	Color CCD camera	Setup dimensions	1500 (W) x1000 (D)
Filters	5 mode auto switching	Weight	60kg
Chamber	370(W)x320(D)x120(H)mm	Usage power (main unit)	AC100 – 240V ±10% Single phase
			Thin Film CAL software (EA1000VX only) Standard Samples

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