



**RoHS Analyzer/Elemental Analyzer
For Compliance with Environmental Regulations, Hazardous Substance**

- **Fast and Non-destructive multiple elements analysis from 1ppm to 100wt%**
- **No sample preparations for solids, liquids, powders, films, coatings irregular shapes, particles**
- **Laser focused Positioning System
User friendly interface, Easy of use
Software**
- **Low cost with unlimited customer support**



- **Fully compliant with **RoHS, WEEE, ELV** optimized application**
- **Precious metal analysis application (Gold, Silver, Platinum other Jewelry etc.)**
- **Thin film or complex multi-layer plating thickness measurement application**
- **Other customer interesting elements analysis application**

New XRF-2020 Series software has independent windows in each function. At the same time measuring, it is possible to view camera monitor and analysis qualitatively and process statistically. The system send measurement data to Microsoft Excel and other programs.

By clicking desired location of camera monitor, Point and Shoot function can fit that location to measure automatically with stage control system.

The New XRF-2020 Series can process multiple type of statistics and reports including X bar-Rs chart, Histogram etc. also support various interface for the resulting values (Excel, HTML and other database formats)

Provides sample and analysis data and determines compliance with applied regulations in real-time.

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RoHS Analyzer/Elemental Analyzer For Compliance with Environmental Regulations, Hazardous Substance

Technical Data

- Chamber size: Slotted chamber W610mm D670mm H490mm, Weight 75Kg (net)
Useable sample area W550mm D550mm Height L:30mm, H:120mm, N:240mm
- X-Ray tube : W(Rh,Ag, Mo) target, 1-50KV. max, 1.0mA current. Optimized application
- Filer system:5 filter with auto-changer primary filter system
- Collimator system: from 0.1mm to 3mm up to 6 collimator type with collimator changer
Customer selected collimator size (optional for special application)
- X-Ray Detector: Electronic Peltier cooled Silicon semiconductor (PIN diode) detector
No need cooling gas, detector resolution **Pin:170eV, SDD:140eV at 5.9KeV**
- Video system: color CCD camera magnification approx, 20X zoom depend on monitor
size or 100X zoom (optional) Electronic crosshair
- Analysis Sample: Solid, liquid & Powder
- Detection Range: **From Al(13) to U(92) 1ppm – 100wt% MDL : 1 ppm**
- Radiation safety: Fully protected, fail safe system auto shut down regarding door sensor
shutter sensor, designed X-Ray safety
- Main supply: 110/220V AC power 50/60Hz
- Spectrum processing: MCA, Digital Pulse Processing. Auto Peak ID
- Deadtime correction, density correction Spectrum auto-scaling

- **Control system:** Desktop or notebook with MS windows environment
- RoHS WEEE ELV optimized application
- FP method: Qualitative material analysis up to 20 elements without sample preparation
- Calibration method: Quantitative material analysis with standards calibration
- Plating thickness measurement application up to 5 layers
- Data output: MS-EXCEL or HTML or database format user creative customized report

● *Here is some result about precious metal analysis and PVC sample analysis*

Measuring Condition :

Measurement Time: 100 s

10 times measurement each sample.

Tested Standards are certificated by
wet chemical analysis and ICP-AES,MS.

We provide elements analysis or thickness
determination, Contact US today for the
solution of your Quality control problems.

Jewelry			PE standards		
Ele.	Given Value	Measured Value	Ele.	Given Value	Measured Value
Pt	100 %	99.99 %	Pb	400 ppm	406 ppm
Pt	97 %	97.02 %	Cd	100 ppm	102 ppm
Au	100 %	99.99 %	Hg	200 ppm	191 ppm
Au	76.3 %	76.18 %	Cr	400 ppm	415 ppm
Au	51.8 %	51.67 %	Br	500 ppm	520 ppm

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XRF-2020H

Stage Stroke 200(X) x170(Y) x120(Z) mm
Max Sample Weight 5Kg



XRF-2020L

Stage Stroke 200(X) x170(Y) x30(Z) mm
Max Sample Weight 2Kg



XRF-2020PCB

Stage Stroke 200(X) x170(Y) x30(Z) mm
Max Sample Weight 2Kg



XRF-2020N

Stage Stroke 200(X) x170(Y) x250(Z) mm
Max Sample Weight 20Kg

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