



iEDX-100A

RoHS / Hazardous Materials Analyzer

X-ray tube	• Rh Target, 50kVp 1mA
Detection System	• Si-Pin Diode (Peltier System), (Option : SDD)
Energy Resolution	• Si-Pin Diode : 149eV FWHM at Mn K α (Option : SDD : 125eV FWHM at Mn K α)
Collimator	• 1, 3, 5mm Auto Change
Detection Element	• Al(13) – U(92)
Sample Type	• Solid / Liquid / Powder
Size of the sample chamber	• 310mm X 284mm X 100mm (W x D x H)
Key Features	• RoHS + Halogen Free simultaneous measurement, Antimony(Sb), Tin(Sn), Sulfur (S) can be screening • Qualitative and Quantitative analysis with co-exist elements • 40~80 x
Camera Magnification	• 3 point interlock
Safety	• Excel, PDF • Custom form
Type of Report	• Sample pre-treatment is not required non-destructive inspection • Simultaneous multi-element analysis, (Solids, Liquids, Powder) • High sensitive and High Precision • Remote Support by Online • Option : 10ch, 12ch Auto Sampler
Key Benefits	• Product screening international environmental regulations (RoHS, WEEE, ELV compliant) • Hazardous material(Cr, Br, Cd, Hg, Pb, Cl, Sb, Sn, S) Screening equipment • Hazardous substances checks that are contained in the toy's accessories, precious metals. • Recycling, Analysis of the lubricating oil & environmental pollutants. • Research and education for elemental component analysis. • Battery, Electronic, Automobile, Precious metal, Injection, Plating, Packaging, etc.
Application	

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Headquarter

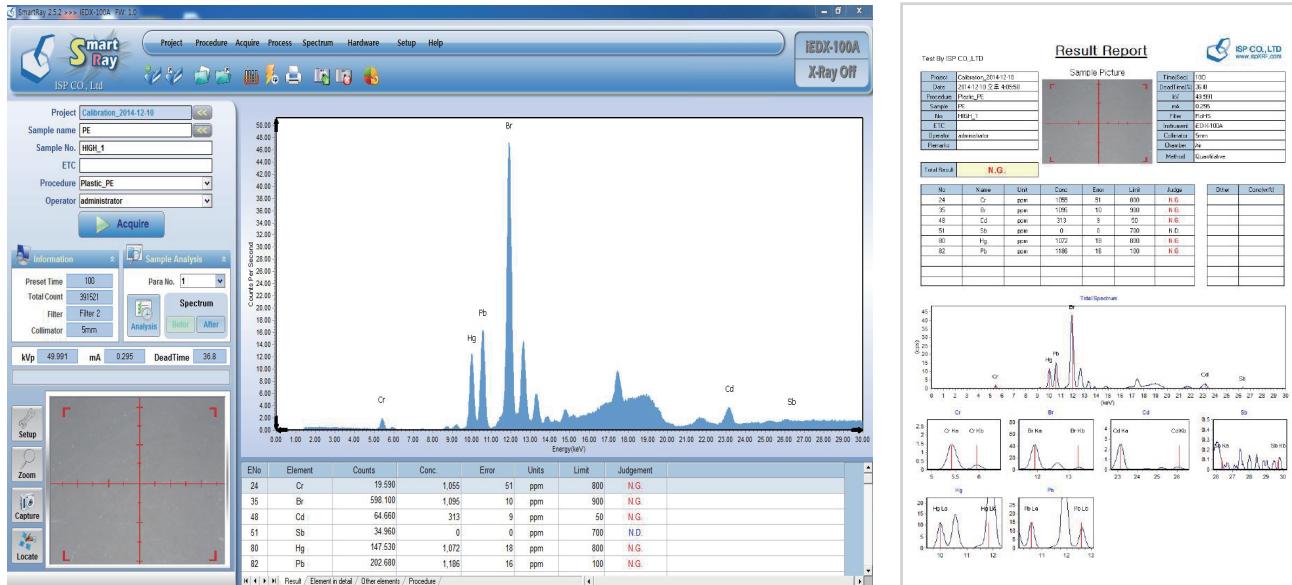
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RoHS Analysis Software

SmartRay



Report results of sample measurement

(Program Registration No : 2009-01-199-004565)

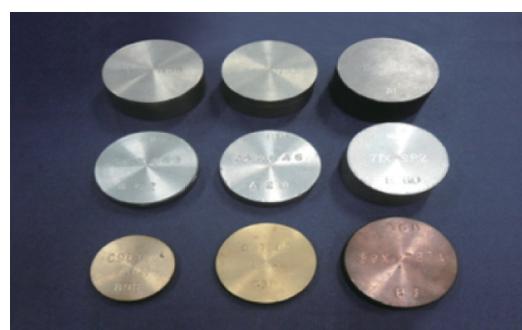
- ◆ RoHS / WEEE / ELV Test
- ◆ Automatic correction function
(Bulk Sample Thickness, Matrix Effect)
- ◆ Simple calibration using Wizard
- ◆ Cr, Pb, Hg, Br, Cd, Cl, As, Sb
Qualitative / Quantitative analysis with co-exist element
- ◆ Systematic management using DB
- ◆ PDF, EXCEL save function



⟨Plastic Standard⟩



Pb free



⟨Metal Standard⟩



⟨Sample Cup and Mylar Film⟩



⟨Auto Sampler⟩



iEDX-150T

Type : sp10, sp30, sp40, mp30, mp40
Coating/Plating Thickness Analyzer



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X-ray tube	Mo/Rh/W/Ag Target(Option), 50kVp, 1mA
Detection System	Si-Pin Diode, (Option : Proportional Counter, SDD)
Energy Resolution	Si-Pin Diode : 149eV FWHM at Mn K α P C : 800eV FWHM at Mn K α Option ↘ SDD : 125eV FWHM at Mn K α
Collimator	0.3 Collimator (Option : 0.05, 0.1, 0.2, 0.5, 1mm) Manual / Auto Changing Stage
Detection Element	Al(13) – U(92)
Sample Type	Solid / Liquid / Powder, Multi-Layer
Size of the sample chamber	390mm X 410mm X 100mm (W x D x H)
Key Features	Auto / Manual Stage Mode Plating thickness measurement : General, Rh, Pd, Au, Ag, Sn, Ni Film thickness measurement of multilayer thin films.(up to 5 Layer) 40~80 x
Camera Magnification	3 point interlock
Safety	Excel, PDF / output Custom form
Type of Report	Film thickness measurement of multilayer thin films. (up to 5 Layer) Convenient stage control Multi-point measurement possible RoHS Screening(Option) Remote Support by Online
Key Benefits	Product screening international environmental regulations (RoHS, WEEE, ELV compliant) Hazardous material(Cr, Br, Cd, Hg, Pb, Cl, Sb, Sn, S) Screening equipment Plating analysis automobile parts, Electronic circuit board (PCB), Such as a capacitor Analysis of single-layer, Multi-layer, Alloy plating Thickness with Composition Ratio can be measure on time in alloy plating
Application	



iEDX-150WT

Type : sp10, sp30, sp40, mp30, mp40
Coating Thickness Analyzer / Large scale PCB



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X-ray tube	• Mo/Rh/W/Ag Target(Option), 50kVp, 1mA
Detection System	• Si-Pin Diode, (Option : Proportional Counter, SDD)
Energy Resolution	• Si-Pin Diode : 149eV FWHM at Mn K α P C : 800eV FWHM at Mn K α Option ↘ SDD : 125eV FWHM at Mn K α
Collimator	• 0.3 Collimator (Option : 0.05, 0.1, 0.2, 0.5, 1mm) Manual / Auto Changing Stage
Detection Element	• Al(13) – U(92)
Sample Type	• Multi-Layer, Wide PCB
Size of the sample chamber	• 300mm X 282mm X 45mm (W x D x H)
Key Features	• Auto / Manual Stage Mode • Plating thickness measurement : General, Rh, Pd, Au, Ag, Sn, Ni • Film thickness measurement of multilayer thin films, (up to 5 Layer) • 40~80 x
Camera Magnification	• 3 point interlock
Safety	• Excel, PDF / output • Custom form
Type of Report	• Film thickness measurement of multilayer thin films, (up to 5 Layer) • Convenient stage control • Multi-point measurement possible • RoHS Screening(Option) • Remote Support by Online
Key Benefits	• Product screening international environmental regulations (RoHS, WEEE, ELV compliant) • Hazardous material(Cr, Br, Cd, Hg, Pb, Cl, Sb, Sn, S) Screening equipment • Plating analysis automobile parts, Electronic circuit board (PCB), Such as a capacitor • Analysis of single-layer, Multi-layer, Alloy plating • Thickness with Composition Ratio can be measure on time in alloy plating
Application	



iEDX-150 μ T

High Performance Coating Thickness Analyzer

X-ray tube	• Mo/Rh/W/Ag Target(Option), 50kVp, 1mA
Detection System	• SDD (Silicon Drift Detector)
Energy Resolution	• 125eV FWHM at Mn K α
Collimator	• Poly capillary optics (50~100 μ m)
Detection Element	• Al(13) – U(92)
Sample Type	• Solid / Liquid / Powder, Multi-Layer
Size of the sample chamber	• 390mm X 410mm X 100mm (W x D x H)
Key Features	<ul style="list-style-type: none"> • Auto / Manual Stage Mode • Plating thickness measurement general, Rh, Pd, Au, Ag, Sn, Ni • Film thickness measurement of multilayer thin films, (up to 5 Layer)
Camera Magnification	• 40~80 x
Safety	• 3 point interlock
Type of Report	<ul style="list-style-type: none"> • Excel, PDF / output • Custom form
Key Benefits	<ul style="list-style-type: none"> • Micro focused measuring point(<70um) using capillary optics • Film thickness measurement of multilayer thin films, (up to 5 Layer) • Convenient stage control • Multi-point measurement possible • Remote Support by on line
Application	<ul style="list-style-type: none"> • Plating thickness measurement special, ENEPIG, Pd-Ni, Rh etc. • Plating analysis automobil parts, Electronic circuit board (PCB), Such as a capacitor • Analysis of single-layer, Multi-layer, Alloy plating • Thickness with Composition Ratio can be measure on time in alloy plating

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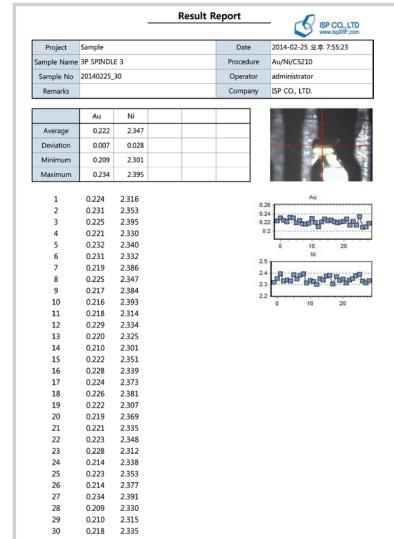
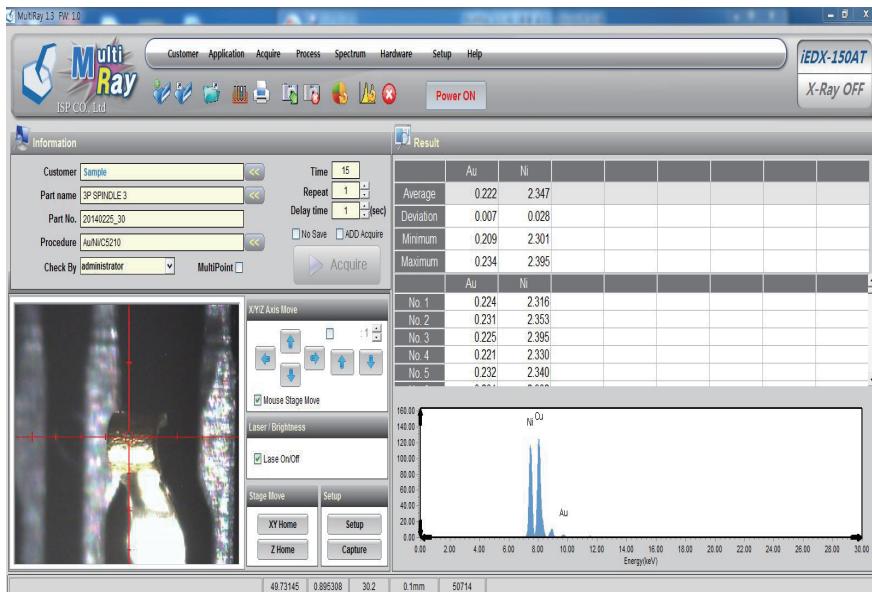
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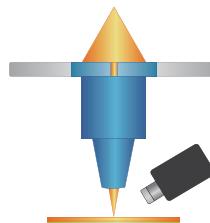
Coating Thickness Analysis Software

MultiRay



Report results of measurement plating thickness

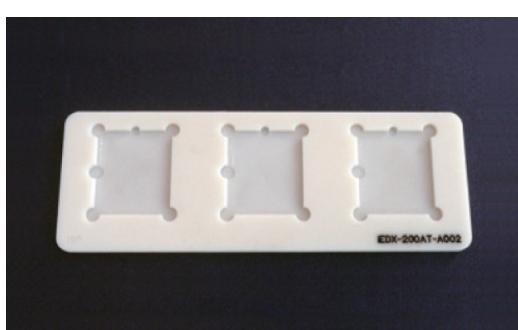
- ◆ Multi-layer thickness analysis
- ◆ Simple plating layer define
- ◆ Convenient parameters setup
- ◆ Fundamental Parameters method, calibration curve method, absorption method support
- ◆ Define the concentration with elements on alloy layer
- ◆ PDF, EXCEL save function



Thickness Standard



Polycapillary & Monocapillary Optics



Coating thickness standard block



Coating thickness sample block

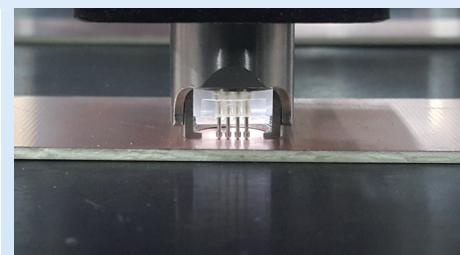
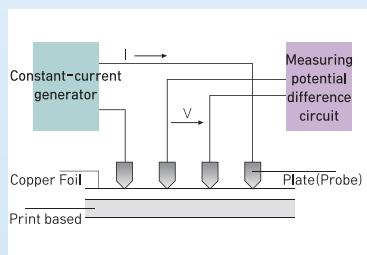


◆ Measure copper coating or plating thickness of the top layer on PCB by EN14571 standard with micro resistance method

iTG-B10

Copper Thickness Gauge

Measurement Method		4 Probe micro Resistance
Thickness Range	Sample	Copper layer on PCB
	RANGE 1	0,1~10μm
	RANGE 2	10~120μm
Accuracy		± 1% with reference to standards
Measuring Time		1 sec/point
Display Size		8 inch
Battery		Ion battery recharge
Memory capacity		Unlimited
Export of Results		Wireless printer, Excel, E-mail
Operating System		Android 4.4
Communication System		Bluetooth



◆ 4 Probe micro resistance method is most effective way of accurate and precise measurement for copper layer on PCB

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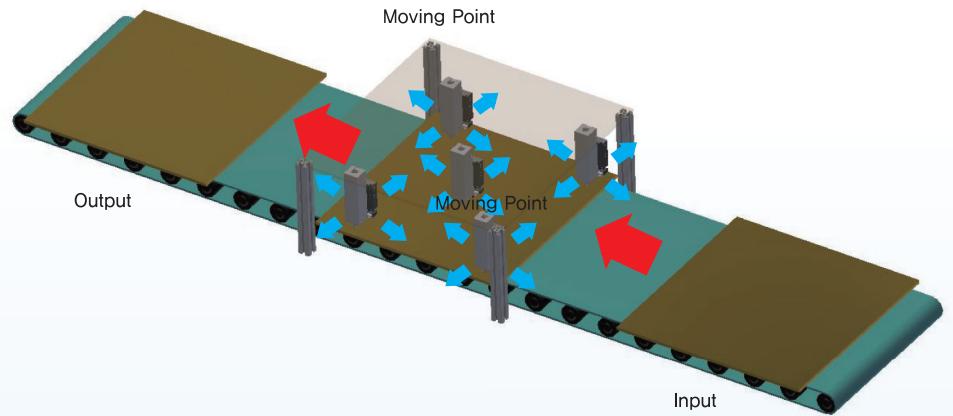
Standard Sample



⟨5μm Sample⟩

⟨11.5μm Sample⟩

⟨31.7μm Sample⟩



iTG-C10

In Line Copper Thickness Gauge

Measurement Method		4 Probe micro Resistance	
Sample		Copper layer on PCB	
Thickness Range	RANGE 1	0.1~10μm	
	RANGE 2	10~120μm	
Accuracy	± 1% with reference to standards		
Number of Measuring point	Up to 20 point		
Report	Excel, PDF		
Operating System	Window 7 or more		
Interface	USB 2.0		

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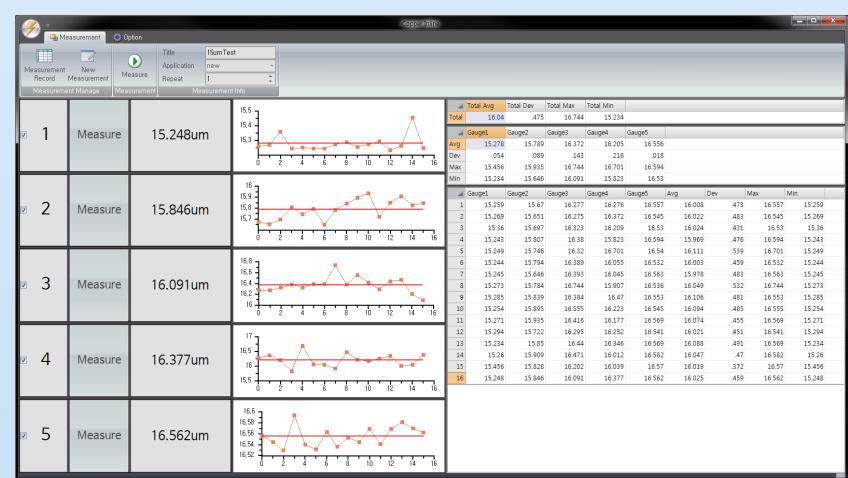
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User Interface



Reel to Reel

In-line Plating Thickness Gauge



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X-ray tube	
Detection System	<ul style="list-style-type: none"> • Mo/Rh/W/Ag Target(Option), 50kVp, 1mA
Collimator	<ul style="list-style-type: none"> • SDD (Silicon Drift Detector) • P.C(Proportional Counter)
Detection Element	<ul style="list-style-type: none"> • Poly capillary optics
Key Features	<ul style="list-style-type: none"> • Al(13) – U(92)
Camera Magnification	<ul style="list-style-type: none"> • Auto / Manual Stage Mode
Type of Report	<ul style="list-style-type: none"> • Plating thickness measurement general, Rh, Pd, Au, Ag, Sn, Ni • Film thickness measurement of multilayer thin films. (up to 5 Layer)
Application	<ul style="list-style-type: none"> • 40~80 x
	<ul style="list-style-type: none"> • Excel, PDF / output • Custom form
	<ul style="list-style-type: none"> • Plating thickness measurement special, ENEPIG, Pd-Ni, Rh etc. • Plating analysis automobil parts, Electronic circuit board (PCB), Such as a capacitor • Analysis of single-layer, Multi-layer, Alloy plating • Thickness with Composition Ratio can be measure on time in alloy plating