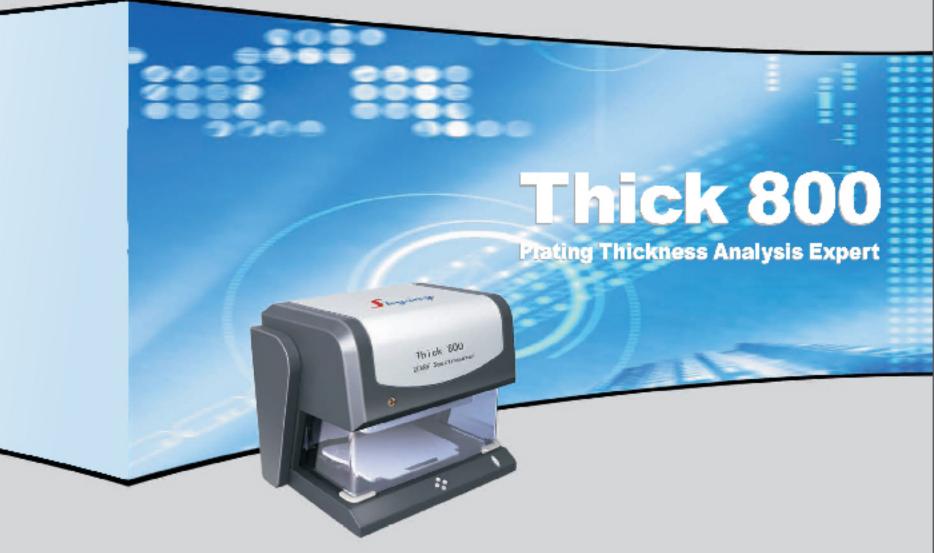




Precision Instruments Skyray Elaborates

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Electro-plating - Ornament processing - Precious metal









Thick 800

X-ray Fluorescence Spectrometer

















Skyray Instrument Inc. has dedicated 15 years to the development, production and sales of X-ray Fluorescence Spectrometers. Its products are widely used in fields such as plating thickness, precious metals (Au, Ag, Pt, Pd, etc), electronic and electric, cement, and steel industries. They are also applied in commodity inspection, scientific study, and RoHS detection.

Rapid Accurate Non-destructive

detection of plating thickness and elemental content in large-size devices. Different from EDX600B, Thick 800 adopts the top lightening structure, 3—D movable sample platform and laser positioning system, which enables the possibility of the point-by-point detection of plating thickness and elemental content on large-size parts.

- Thick 800 is tailor-made for rapid and non-destructive
- Thick 800 is equipped with top lightening structure, 3—D movable sample platform, double-laser positioning system, and open sample chamber.
- The up-and-down movable glass shield cap helps prevent the leakage of X-rays.
- Thick 800 has the state-of-the-art outlook, structure and color design
- A set of functional software is also fully supplied.



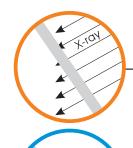


Electro-plating Ornament processing Precious metal

- Elemental content detection of precious metals like Au, Pt, Ag and ornaments
- Metal plating thickness analysis and elemental detection of plating and electroplating solution.
- Mainly used in precious metal, ornament processing, banks, ornament sale and detection, and electroplating industries.





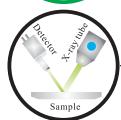


Up-and-down movable glass shield cap, preventing the leakage of X-rays

> 3—D movable sample platform and double-laser positioning system



Specific for plating thickness and elemental content detection of large-sized parts



Top lightening structure and open sample chamber.

Technical specifications:

- Analysis range: $(K) \sim (U)$
- Many layers can be analyzed at a time
- The detection limit of thickness can reach $0.01 \,\mu$ m
- More than 5 plating layers can be analyzed simultaneously
- Independent matrix effect correction models: most
- advanced thickness analysis method
- Repeatability is up to $0.01\,\mu$ m
- Stability is lower than 0.1 µ m
- Ambient temperature: 15°C ~30°C
- Input voltage: 220±5V/50HZ (AC purified regulation
- power supply is suggested)

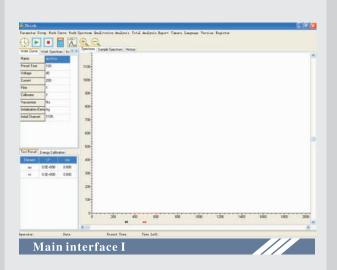


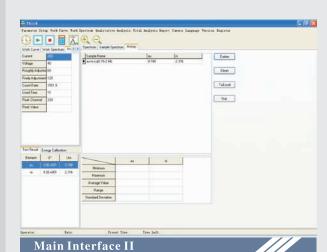
Configurations:

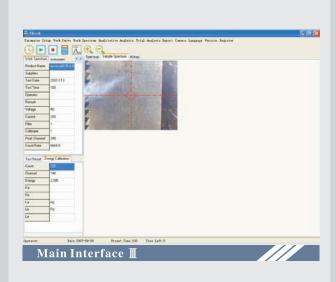
- Open sample chamber
- 3-D movement is realized by 2-D movable platform and up-and-down movement of detector and X-ray tube.
- Double-laser positioning system
- Automatic collimator switch
- Glass shield cap
- Proportional detector
- Electronic circuit for signal detection
- High and low voltage power supply
- Electro-cooling Si-PIN semiconductor detector instead of liquid nitrogen cooling one
- X-ray tube
- PC and ink-jet printer
- Area:517mm X 352mm X 150mm
- Size:648mm X 490mm X 544mm

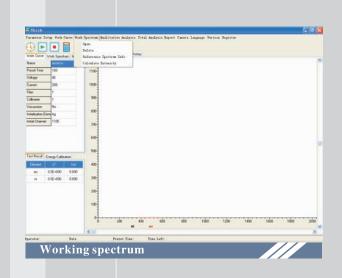


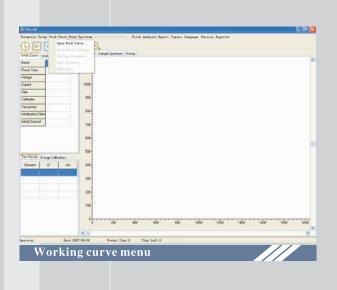
Fully functional software

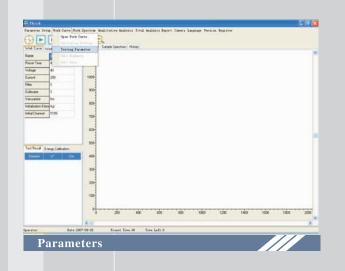




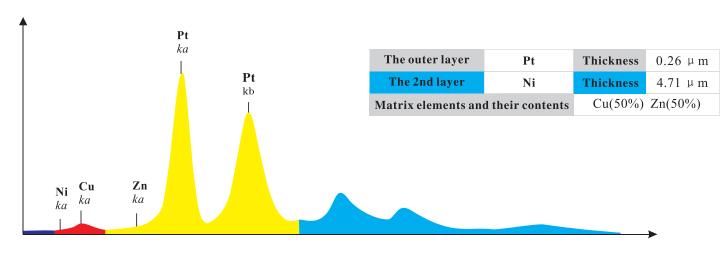


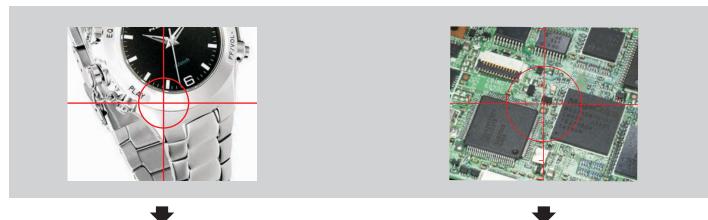


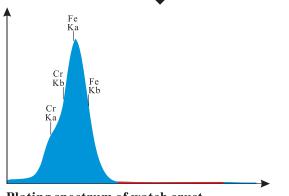




Example of plating test and its results



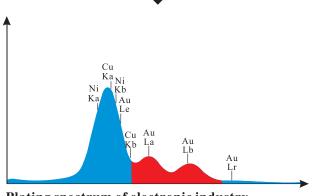




Plating spectrum of watch crust



Matrix	Fe		
The 1st layer	Cr	Thickness	1.74 µm
Tested parts	Watch crust	High voltage	40 kV



Plating spectrum of electronic industry



Matrix	Cu		
The 1st layer	Au	Thickness	1.02 µm
The 1st layer	Ni	Thickness	6.05 µm
Tested parts	Connected to plug-in	High voltage	40 kV
Test time	20 s	Tube current	500 µA