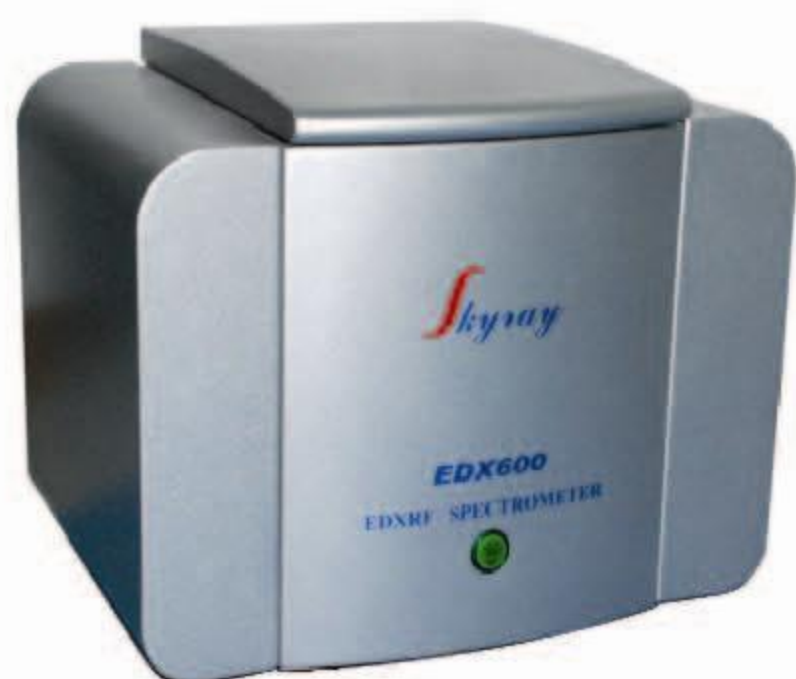


Skyray Instrument Products Catalogue

Precision Instruments

Skyray Elaborates





EDX600 Professional Precious Metals Analyzer

- Classic Precious Metals Analyzer all across the globe
- Precious metals Au, Ag, Cu, etc and jewelries
- Analysis accuracy: 0.1%
- Time: 60-100s
- Intelligent software matches with the instrument well



EDX600B Precious Metals and Plating Thickness Analyzer

- Precious Metals Au, Ag, Cu, etc (especially Gold) and jewelries
- Also applicable to metal plating thickness, plating compositions and electro-plating solution compositions analysis
- Auto switch of eight collimators (0.1mm-0.8mm)
- Analysis accuracy: 0.05% Time: 60-100s
- Laser positioning device; micro area testing



EDX660 Portable Gold Testers

- Precious metals Au, Ag, Cu, etc and jewelries
- Portable design allows for on-site and movable testing
- Equipped with laptop computer, with power supply AC110V/220V
- Ten minutes warming up before on-site measurement
- Good radiation shielding ability, safe and environment-friendly



EDX880 Universal Precious Metals Analyzer

- Glass cover
- Universal sample clamp and lift platform
- With small collimating aperture, the machine can test micro area
- Common test and inner wall test of precious metals
- Laser positioning CCD



EDX2800 Professional RoHS Analyzer

- Electric-cooling Si-PIN semiconductor detector
- Unique light path enhancement system; high resolution CCD
- Auto collimator and filter switch; precise movable platform
- Intelligent RoHS software, easy to use
- Detection limits of RoHS hazardous elements reach 1ppm



EDX3000 Precious Metals Analyzer

- Precious Metals Au, Ag, Pt, Pd, etc
- Electric-cooling Si-PIN semiconductor detector
- Signal-to-Noise Enhancer; high resolution CCD
- Triple safety protection mode; overall steel structure
- Analysis accuracy: 0.05% (above 96%)



EDX3000D RoHS and Full-element Analyzer

- Electric and Electronic appliances, electro-plating, cement, steel, non-ferrous metals, etc
- Auto switch of multiple collimators; auto selection of filters
- 3-D super large sample chamber, auto open/close of sample chamber
- Software positioning sample platform, with min displacement 0.01mm
- High resolution CCD, with better test results



EDX3200S Specialized Sulfur Tester

- Helium sample chamber
- Detection limit reaches 5ppm (when testing Sulfur)
- Open sample chamber
- Specialized Sulfur Tester for all types of oil products
- Intelligent Sulfur Testing Software



EDX3600B Professional Full-element Analyzer

- Cement, steel, non-ferrous metals, ores and RoHS analysis
- Cracking the problem of quick analysis of complex samples in cement and steel industries
- Low energy X-rays are used, delivering good results when exciting light elements
- UHRD detector, with good energy linearity and energy resolution
- Multiple linear regression, reducing the inter elemental absorption and enhancement effect



EDX3600L Professional Archeological Tester

- Meeting the requirement of super large sample chamber in archeological research Measurable elements: Na to U
- Equipped with large power vacuum pump for rapid vacuuming
- High performance X-ray tube; UHRD detector
- Specialized in ancient ceramic testing; also capable of analyzing ancient bronze wares and antique jewelries



EDX6000B 12-position Full-element Analyzer

- Measurable elements: Na to U
- High performance ultra-thin end-window X-ray tube
- 12-position sample changer
- Vacuum sample chamber, offering better analysis of light elements in low content
- Measurable objects: solid, tablet, film and coating



EDXPortable-I Portable XRF Spectrometer

- Integrated mini end window X-ray tube
- Four groups of filters and collimators; large area Si-PIN detector
- High SNR electronic circuit; Bluetooth communication
- Sealed round sample chamber, with good radiation shielding capability
- Large capacity Lithium battery and AC to DC adapter



EDXPocket-III Handheld X-ray Fluorescence Spectrometer

- The smallest and lightest spectrometer in the world; specifically designed for field study, large-sized work pieces and movable tests.
- Measurable elements: K to U
- Application fields: minerals, alloys, precious metals, scrap metals recycling, archeology, RoHS, etc.
- Excitation source: 40KV-Ag target or W target mini X-ray tube
- Diameter of X-ray beam: 5mm
- Filters: 4 groups of filters for free switch

Comparison of Skyray Plating Thickness X-ray Fluorescence Analyzers

| | | | |
|---------------------------------|--|---|---|
| |  |  |  |
| Name | Thick680 | Thick 800 | Thick 800BSF |
| Application Fields | Rapid and non-destructive measurement of PCB plating thickness and compositions | Measuring thickness of metal plating and compositions of plating and plating solution | X-ray micro focusing technique, with minimum spot size 0.1mm |
| Lightening modes | Top lightening design, high automation degree, changeable spot sizes, with an ability to measure super small samples, concave samples, and other samples with complex structures | | |
| X-ray tube | Oxford X-ray tube / ordinary X-ray tube (optional): Be window, Rh target/W target | | Oxford X-ray tube, larger power and smaller spot size |
| Detector | Proportional counter | Proportional counter/Si-PIN detector | |
| Sample chamber | Open sample chamber, allowing analysis of large or small samples | | |
| Sample platform | One dimensional sample platform | 2-D sample platform, 3-D movement | |
| Positioning device | Double lasers positioning device, resulting in continuous multi-spot measurement | | |
| Radiation shielding | Glass shielding cover | | |
| Collimators | 1.0 × 0.1, 0.5 × 0.1, 1.0 × 0.3, 0.5 × 0.3(mm) | | |
| High voltage | 50KV, 1mA | | |
| Number of plating layers | Up to 5 layers | | |
| Software | Professional Plating Thickness Analysis Software, multi-functional and easy-to-use | | |
| Appearance | Modern and Fashionable | Smooth structure and appealing colors | |



WDX200
Classic Multi-channel X-ray Fluorescence Spectrometer



WDX400
Novel Multi-channel X-ray Fluorescence Spectrometer

- Cement, steel, powder metallurgy, coal, kaolin, glass, etc
- 10 fixed channels for analyzing 10 arbitrary elements from Na to U
- Detectors: gas proportional detector + sealed proportional detector
- Algorithms: empirical coefficient algorithm and theoretical α -coefficient algorithm
- Gas flow system: high sophisticated gas density stabilizer

- An ideal choice for quality control of large and medium-sized enterprises
- 400W thin Be window X-ray tube
- Analysis accuracy: $\leq 0.05\%$
- Single sample measurement time (including time for changing samples and vacuum pumping) $\leq 5-8'$
- MCA measures the peak of each element in real time



AFS200T Atomic Fluorescence Spectrometer

- Application fields: geography, environment, metallurgy, food, biology, medicine, agriculture, plants, light industries, cosmetics, etc
- Measurable elements: 11 elements As, Sb, Bi, Hg, Se, Te, Pb, Sn, Ge, Zn, Cd
- Detection limit: As, Sb, Bi $\leq 0.01\text{ng/ml}$ Hg $\leq 0.001\text{ng/ml}$
- RSD: $\leq 1\%$ Range of linearity: greater than 3 orders of magnitude
- Non-dispersive optical system with simplified structure; maximum 2-channel elements measured simultaneously
- Automatic control of lamp current, negative high voltage and turning speed of peristaltic pump; USB 2.0 communication interface
- Automatic control of Ar gas flow rate, disconnected when the instrument stops working, saving the consumption of Ar gas
- Equipped with real-time flame observation device



AAS6000 Atomic Absorption Spectrometer

- Metallurgy, steel, non-ferrous metals, environment, petroleum, medicine, food, air, water quality, soil, building materials, cosmetics, health products, etc
- All reflective and aberration corrected system
- 8 element lamps, true preheating/working status, delivering easier analysis
- Gas path safety measures; USB interface allows you to operate the instrument conveniently and rapidly
- 1800g /mm grating grooves, 230nm grating blazed wavelength, with enhanced Ultra Violet energy and more stabilized baseline
- Run in Windows operating system, the powerful software enables automatic qualitative and quantitative analysis and automatic report generation in Excel format



OES1000VM I Optical Emission Spectrometer

- Application fields: OES 1000VM I Multi-channel (max 64 channels) Optical Emission Spectrometer is a rapid quantitative analyzer of ferrous and non-ferrous metals. It is widely used in metallurgy, mechanics and other industries. As a tool for rapid analysis of metal ores before entering furnace and for product inspection in central laboratory, OES offers an effective way to control the quality of the products.
- Features: High speed, good repeatability and stability
High stable flame excitation source with excitation frequency 150-600Hz; different frequencies corresponding to different materials for achieving the best test results; multiple matrices be analyzed: Al, Pb, Mg, Zn, Sn, Fe, Co, Ni, Ti, Cu, etc.



FWS-1000
Inductively Coupled Plasma Spectrometer



ICP-2000
Novel Inductively Coupled Plasma Spectrometer

- Rare earth, metals, Molybdenum concentrates, powder metallurgy, food, hygiene, geography, etc
- Low detection limit: sub ppt quantity level
- High resolution: $RSD \leq 2\%$
- Simultaneous measurement of multi elements
- Wide linear dynamic range (5-6 orders of magnitude)

- Capable of measuring approximately 70 trace to constant elements in different materials
- High Frequency Box is under power feedback close-loop auto-control (National Patented Invention).
- Asymmetric optical path, eliminating the interference of the stray lights
- Precise and reliable step motor, driving the grating stably
- Simpler software operation and broader application fields



GC-5400 Gas Chromatograph

- GC-5400 plays a critical role in quality control of chemistry, medicine and food industries, and also applicable to quarantine, environment protection, quality supervision, oil, petrochemical industry, forensic analysis, agriculture and commodity inspection
- 5 ramps, in-built 24-bit high resolution data acquisition system
- Advanced microcomputer control system, superior control
- The carrier gas pneumatics is designed with constant pressure valve plus constant flow valve for dual stability. Constant pressure valve plus needle valve are used in the air and Hydrogen pneumatics for stable gas regulation. Both valves are in form of digital knobs, which delivers high precision, outstanding repeatability, good reliability and intuitive flow rate adjustment.



LC-310 Liquid Chromatograph

- Application fields: pharmaceutical analysis, hygiene and quarantine, environmental monitoring, agriculture, forestry, fishery, stockbreeding, manufacturing industry, petrochemical, quality inspection, scientific study, water conservation system, etc.
- Intelligently digitalized full-control Liquid Chromatograph system; unique design of check valve
- The reciprocating dual-plunger parallel pump offers good stability and longer service life.
- Taper hole design in the flow cell improves the measurement sensitivity dramatically when compared with the traditional straight hole design.



High-frequency Infrared Carbon-Sulfur Analyzer

- Large power high frequency combustion furnace, with high power electronic tube and unique power programmable self-oscillation circuit.
- Infrared (IR) light source and detectors of the Carbon and sulfur cells use imported highly stabilized device in original packaging, delivering greater accuracy and providing longer service life. The light source is configured with special electro modulation, which significantly improves the measurement accuracy.



OSA1002 On-stream Slurry Analyzer

- OSA1002 is the online sampling part of the on-stream X-ray Fluorescence Spectrometer, which is mainly used in the mineral dressing process.
- Modular design with extendibility to maximum 24 flow channels.
- Electric controlled pneumatic drive module, with low cost, simple maintenance and free pollution.
- Flexible configuration of channel sampler.
- Settable measurement order of the sample flow.
- Real-time monitoring of the status of the actuator.

