

The ISO 9001:2008 international quality certification system is adopted by our company

TO BE A WORLD-LEADING ANALYTICAL TESTING SOLUTIONS PROVIDER !

Spectroscopy

Chromatography

Mass Spectrometry

A New Generation
The Leader of Handheld XRF

EXPLORER 9000

Environmental Soil Heavy metal Analyzer



Hotline: 800-9993-800
400-7102-888

China Jiangsu Skyray Instrument Co.,Ltd.

Add:1888,West Zhonghuayuan Rd.,Yushan,Kunshan,Jiangsu Province

Fax:+86-512-57017010

Website:www.skyray-instrument.com

E-mail:sales@skyray-instrument.com

Test data in this manual, if not noted, is our company's test data.

All information in this manual is for reference only, which is subject to any change without notice.

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115 countries®ions are using Skyray Instrument up to now

www.skyray-instrument.com

E A New Generation The Leader of Handheld XRF XPLORER 9000 Environmental Soil Heavy metal Analyzer

Based on ten-year research and development experiences of portable instruments, EXPLORER handheld XRF adopt photoelectron, microelectronics, semiconductor, computer and many other technologies and develop a new generation of handheld XRF of our own.

EXPLORER 9000 handheld soil heavy metal analyzer is the first to use large-screen, high-resolution LCD and the new digital signal processor. It's able to carry out in-situ test and repairing analysis for the soil pollutants, effective testing about heavy metals including mercury, cadmium, lead, arsenic, copper, zinc, nickel, cobalt, vanadium, chromium, manganese in polluted soil, and also add testing elements according to clients' requirements. With small size and light weight, EXPLORER is portable for testing heavy metal in soil, even for low content and its performance is as great as desktop.

EXPLORER 9000 Environmental Soil Heavy metal Analyzer

Able to carry out effective testing about heavy metals including mercury, cadmium, lead, arsenic, copper, zinc, nickel, cobalt, vanadium, chromium, manganese in polluted soil, and also add testing elements according to clients' requirements.

» Application field in environmental protection soil industry

- Soil pollution survey and environmental assessment
- Soil pollution emergency treatment
- Soil restoration
-

» Application advantages

Soil heavy metal survey

Built-in GPS helps to search for satellite signals in the field any time to determine the geological information of sampling location, and rapidly survey large range of soil polluted area, establish pollution maps and real-time monitoring of pollution in different regions. Carry out heavy metal environmental pollution assessment about various types of agricultural land, residential land, commercial land and industrial land.



Soil pollution emergency treatment

Commonly used in emergency treatment after the pollution happens. Able to implement rapid and on-site tracking about abnormal pollution, effectively search "tainted" zone, circle out the boundary of contaminated area for real-time survey.



Soil restoration in polluted area

Classify pollution regions; circle out key soil polluted areas, target on the divided areas for key governance to improve screening efficiency and carry out real-time monitoring of remediation situation about polluted soil.



EXPLORER 9000

Environmental Soil Heavy metal Analyzer



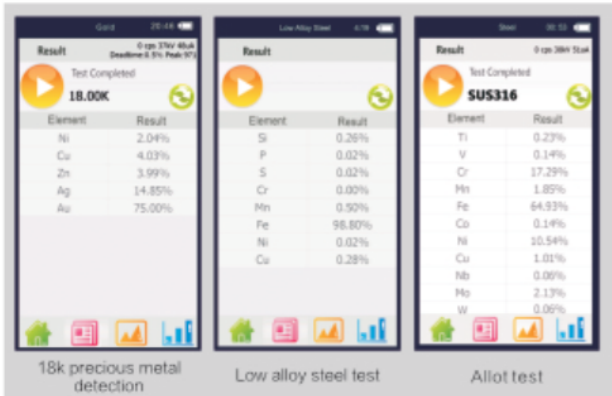
» Six Advantages

Easier Operating



- Light weight, small size, ergonomic handle design, equipped with a special instrument case, which is easier to grasp and more convenient to use in the field.
- 5 inch high-definition screen with 360 degree rotation, multiple points operating, can display clearly at any lights.
- Integrated design of Seal type, with waterproof and dustproof function, can be used continuously in harsh environments.
- No need for sample preparation, can directly measure and analysis the surface of goods which need to tested. The instrument can do a quick measurement by its handheld benefit and accurately test the samples for a long time by its test block.

Better Performance

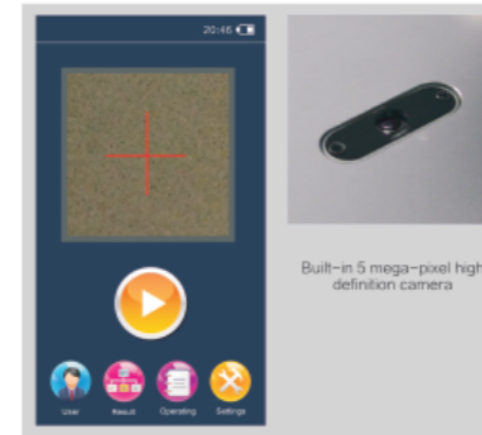


- Rapid nondestructive detection and quick measurement by aiming, report results within one second. The performance is comparable to the bench-top's performance and detection result is fast and accurate.
- Simultaneous detection of Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, Zr, Nb, Mo, Ru, Rh, Pd, Ag, In, Sn, Sb, Hf, Ta, W, Re, Pt, Au, Pb, Bi, Mg, Al, Si, P, S, and it can add elements that customized for customer's needs.
- Instrument can run without helium by the ultra near optical path design, and can detect the light elements from the beginning of Mg that fully meets the needs of specific users.

Stronger Battery

- Large lithium battery at 27000mAh could be as a selected configuration; the battery duration working time is up to three days, and it equipped with communicator and car charger to ensure power supply.
- A Built-in memory battery can continue replace the battery power.

Higher Configuration



- Four core parts which are Miniature X-ray tube, Fast-SDD detector (the world's best detector), digital signal processor and micro multichannel intelligent analysis module, can achieve the accuracy as good as bench-top's.
- Large data storage is by ultra-high frequency memory and mass storage space. Our new independent research and development Digital multi-channel technology ensure effective mining spectral counts per second is up to 500K cps.
- Collimation filter system, its combination can reach to the limit of 12 groups, to meet the testing requirements of different customers.
- A built-in 500W pixels high definition camera, can observe sample's testing position at any time that makes the measurement more accurate.

Safer Protection



- Intelligent- tricolor- early -warning -system: 360 degrees without dead angle display by LED three-color lamp led design. Instrument status tells by different colors, Green light means power on, red flashing means testing, and yellow flashing means fault of equipment.
- Triple safety protection function:
 - a: Automatic induction, instrument does not work without sample, no leakage radiation.
 - b: Thicken - preventing - testing - wall can effectively prevent the scattering.
 - c: Safety - protection - cover can prevent the surrounding light matrix scattering.
- Security- linkage- locking device protects your security; it can guard the final checkpoint if the software is unable to control the instrument turn off.

More Intelligent Software

- EXPLORER 3000 harmful elements analyzer is equipped with professional application software, specifically for Rohs industry; the feature is intelligent, high sensitivity, short testing time, and easy operation.
- Brand new knowledge-ware is one key operation with dual mode design (user mode and expert mode). User mode uses for recognizing categories of sample by one key operation; Expert mode uses for increasing the elements and increasing the specific in-depth analysis of the operation curve.
- Internal intensity correction method can correct deviation caused by uneven sample of different geometrics, densities and structures.



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» Performance Technical Data

Analytical Method	Energy dispersive X ray fluorescence analytical Method
Elements Measuring Range	Atomic number from 12 to 92 [elements from magnesium(Mg) to uranium (U)] can be measured
Simultaneous detector elements	Simultaneous analysis 40 elements
Microcomputer system	Customized system; CPU: 1G ; system memory: 1G ; extended stored maximum support 32G ; standard 4G for mass storage data
The content range	ppm ~ 99.99%
The detection time	1 ~ 60 seconds (a second report results)
A built-in system	GPS, WIFI, Bluetooth
Power Supply	Rechargeable lithium battery, standard is 9000mAh, sustainable work up to 12 hours; optional is 27000mAh superbattery with wide voltage 110V ~ 220V universal adapter for recharging power supply
Detection Objective	Solid, liquid, powder
Detector	SDD detector or Fast-SDD detector (optional)
Detector resolution	Minimum can reach 128eV
The excitation source	50KV/200uA- silver target end window integrated miniature X ray tube and high voltage power supply
Collimator and filter	Collimator diameters are 4.0mm and 2.0mm, 6 kinds of filters with automatic switching functions
Video system	500W pixel high resolution camera
Display screen	Brand new 5 inch transfective LCD touch screen, the resolution is 1080 x 720
Detection limit	The minimum detection limits at 1 ~ 500 ppm
Safety	Multiple safety protection, no tests, no radiation, radiation levels at work are far below the international safety standards, and has no sample telemetry, automatic shut X light tube function. Standard radiation shields, thickened wall alloy test instrument
Specialty	Ore special edition analysis software, using intelligent one key test
Convenience of application	Key intelligent matching the best curve that no need to select curve
Data transmission	Digital multi-channel technology, SPI data transmission, quick analysis, the high count rate; waterproof mini USB, and can be connected with a desktop computer
Operating ambient humidity	≤90%
Operating environmental temperature	-20°C ~ +50°C
Instrument dimension	244mm (Length) x 90mm (Width) x 330mm (Height)
Instrument weight	1.7Kg
Intelligent warning signals indicator system	Green light means power on, red flashing means testing and yellow flashing means the problems
Accessories	Three-military-protection-box is compression, waterproof and shock absorption. Universal charger and car charger, 4G SD memory card and card reader Two lithium battery and charger, PDA accessories, radiation shield. Optional accessories: the large battery, seat type test support, Bluetooth printer, mill, manual pressure machine, and other options can to chosen...

» Exclusive Accessories



Military grade high strength protective box, has good moisture-proof shockproof pressure three functions, an emergency situation can be used as a rescue tool.

A horseshoe shaped battery: battery capacity at 27000mAh, prolonging test time 3 times, and use as the seat stent.



To achieve on-site printing data by portable Bluetooth printers.



Four into one car charger can extent charging times in the field.



Optional of portable and seat type can provide customers to have more choices.

