

Stock Code: 300165

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



Skyray Instrument

A New Generation
The Leader of Handheld XRF

EXPLORER 3000Handheld Harmful Elements Analyzer

Rapid | Accurate | Non-destructive

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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.

Version number: TRVH 151204 B26

115 countries®ions are using Skyray Instrument up to now www.skyray-instrument.com _____





Electrical and electronic manufacturing

Packaging materials manufacturing

Waste electrical and electronic recycling

■ Entry-exit inspection and quarantine

Machinery manufacturing and processing

... ...

Toys production









A New Generation The Leader of Handheld XRF XPLORER 3000 Handheld Harmful Elements 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 the new generation of handheld XRF with IPR. EXPLORER 3000 handheld harmful elements analyzer is specially designed for the Rohs industry. The use of digital multi-channel technology makes the detection limits lower, stability higher and application wider, making its performance as great as the desktop. With small size and light weight, EXPLORER 3000 is portable and convenient for testing.

After the implementation of RoHS in EU, Skyray products of XRF series have become forceful instruments for toys manufactures to detect toys safety. A new generation of handheld harmful elements analyzer in Skyray is easy to operate and widely applied in material production of electronic components and parts; third-party assessment for electronic components and raw materials suppliers; packaging materials testing and verification; testing and verification of hazardous substances in various batteries; a variety of toys, stationery, children's products and gifts testing; unobstructed and unrestricted space test for large parts; precise positioning of the fine parts to eliminate interference and non-destructive testing for valuables.

Application advantages

Super-large sample testing

When a sample is too large and can't be cut, the desktop instrument is not able to test effectively about the harmful elements. Meanwhile, EXPLORE3000 can prove itself by testing directly on the surface with easy operation, largely improving testing efficiency.

Toy samples testing

There are various toy samples and large amount of testing. Repeated sampling makes the testing in the laboratory too long. The use of EXPLORE 3000 is able to make on-site testing, greatly reducing the production cycle to save production time.

Packaging materials testing

The shapes of toys packaging materials are in a large size and various kinds and there are many inks outside. The ordinary desk-top instrument is not able to make rapid and comprehensive testing. EXPLORE 3000, handheld instrument can select testing points freely with more rapid and flexible operation, accurate and comprehensive testing results.

Waste electrical and electronic recycling

For waste electrical and electronic products recycling and reuse industry, EXPLORE 3000 can make on-site testing and rapid classification on the large amount of electrical wastes.

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A New Generation The Leader of Handheld XRF

EXPLORER 3000

Handheld Harmful Elements 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-
- Large data storage is by ultra-high frequency memory and mass storage space. Our new independent research and development Digital multichannel 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 flushing means testing, and yellow flushing means fault of equipment.
- Triple safety protection function:
- a: Automatic induction, instrument does not work without sample,
- b: Thicken preventing testing wall can effectively prevent the
- 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.

Jkyray Skyray Instrument









A New Generation The Leader of Handheld XRF

EXPLORER 3000

Handheld Harmful Elements Analyzer



>>> Performance Technical Data

Energy dispersive X ray fluorescence analytical Method Analytical Method Elements Measuring

Atomic number from 12 to 92 [elements from magnesium(Mg) to uranium (U)] can be measured

Simultaneous detector Simultaneous analysis 40 elements

Customized system; CPU: 1G; system memory: 1G; extended stored maximum support 32G; standard 4G for mass storage data Microcomputer system

ppm~99.99% The content range

1 ~ 60 seconds (a second report results) The detection time

A built-in system GPS, WIFI, Bluetooth

Rechargeable lithium battery, standard is 9000mAh, sustainable work up to 12 hours; optional is 27000mAh superbattery with Power Supply wide voltage 110V ~ 220V universal adapter for recharging power supply

Detection Objective Solid, liquid, powder

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 diameters are 4.0mm and 2.0mm, 6 kinds of filters with automatic switching functions Collimator and filter

Video system 500W pixel high resolution camera

Display screen Brand new 5 inch transflective LCD touch screen, the resolution is 1080 × 720

The minimum detection limits at 1 ~ 500 ppm **Detection limit**

> 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

Ore special edition analysis software, using intelligent one key test

Key intelligent matching the best curve that no need to select curve Convenience of application

Digital multi-channel technology, SPI data transmission, quick analysis, the high count rate; waterproof mini USB, and Data transmission can be connected with a desktop computer

Operating ambient humidit ≤90%

Safety

Operating environmental

-20°C ~ +50°C

Instrument dimension 244mm (Length) x 90mm (Width) x 330mm (Height)

Instrument weight

ntelligent warning signalsIndicator systen

Green light means power on, red flushing means testing and yellow flushing means the problems

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

Accessories support, Bluetooth printer, mill, manual pressure machine, and other options can to choosen...

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

