

New GenerationExplorer Handheld XRF

EXPLORER 3000 RoHS Analyzer







EXPLORER 3000 RoHS Hazardous Substances XRF

Based on ten-year research and development experience in Handheld X-Ray Fluorescense, Skyray Instruments 5th generation EXPLORER handheld XRF adopts photoelectron, microelectronics and semiconductor technology to deliver results in less then 2 seconds. EXPLORER 3000 handheld RoHS analyzer is the first to use large high-resolution LCD and the new digital signal processor. The minimum detection limits make its performance equal to Desktop XRF. Small and lightweight, EXPLORER can analyze any sample large or small, in the lab or in the field.











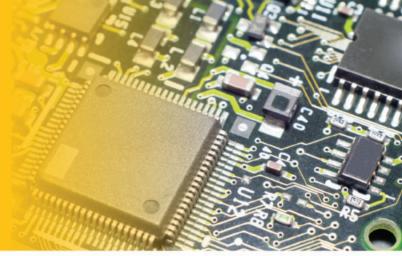
>> Applications:

Skyray Instruments XRF Spectrometers have become powerfull tools for fast and reliable RoHS & hazardous substances screening in commercial and consumer products. Skyray new generation handheld XRF Analyzers are widely applied in material production of electronic components and parts, third-party assessment for electronic components, raw materials suppliers, packaging materials verification, hazardous substances testing in various batteries, toys, stationery, children's products and others



- Electrical and electronic manufacturing
- Waste electrical and electronic recycling
- Machinery manufacturing and processing
- Toys production
- Packaging materials manufacturing
- Consumer goods inspection





Advantages

Easy Operation







- Lightweight and ergonomic design is more convenient to use in the field, heavy duty travel case ensures safe transportation of the instrument
- 5 inch high-definition screen with 360 degree rotation displays results clearly at low visibility conditions
- Waterproof and dustproof design, Explorer XRF can be used in harsh environments.
- Avoid sample preparation and directly measure raw materials in the field or in the lab with Portable table stand.

Best Performance

360° rotatable high-definition screen



- Rapid nondestructive detection and quick measurement with results within two seconds. With performance similar to most benchtop XRF Models, Explorer XRF sets a new standard for Handheld XRF Analyzers
- Fast analysis 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. Other elements can be easily added as per customers application
- Detect the light elements without helium gas

Extended Battery Life

- Rechargeble 9000mAh lithium battery with up to 12 hours work time on a single charge
- Optional 27000mAh lithium battery with up to 3 days work time on a single charge





Higher Configuration



- Benchtop XRF acuracy is possible thanks to four core components:
 Miniature X-ray tube, SDD or optional Fast-SDD detector,
 digital signal processor and multichannel intelligent analysis
 module
- Skyray patented digital multi-channel technology features up to 500K CPS(spectral counts per second)
- Automatic collimators and filters make Explorer able to analyze different applications and ensure Explorer can meet many testing requirements
- Users can observe samples position at any time thanks to built-in 5 mega-pixels HD camera

User Protection



- Multi-color warning system lets the user know the status of the instrument: Green light for power on/stand by, red flushing LED while testing, yellow flushing in case of malfunction
- Multiple safety protection features:
 a: X-Ray tube shuts off automatically without sample
 b: Thick Steel Structure with heavy Lead coating prevents
 any X-Ray leaking
 c: Rubber Shield prevents X-Ray scattering
- Manual Security Interlock blocks software control of the instrument

Intelligent Software

- EXPLORER XRF analyzer comes with our newest software which simplifies user training and operation. Unlike other Handheld XRF Spectrometers, Explorers easy-to-use interface allows anyone to operate the instrument
- The software features two user modes:
 Operator mode-simplifies operation with one step testing for quick day-to-day testing by inexperienced staff.
 Expert mode for experienced users looking for in-depth analysis and advanced features



Accessories 2700mAh Battery Portable Bluetooth Printer Car Charger Heavy Duty Travelling Case Optional Table Stand



>>> Technical Specifications

Analytical Method	Energy dispersive X ray fluorescence analytical Method
Elemental Range	Atomic number from 12 to 92 [elements from magnesium(Mg) to uranium (U)] can be measured
Simultaneous elements	Simultaneous analysis 40 elements
Microcomputer	CPU: 1G; system memory: 1G; maximum support 32G
Content range	ppm~99.99%
Detection time	1 ~ 60 seconds
PDA	GPS, WIFI, Bluetooth
Power supply	Rechargeable lithium battery, standard 9000mAh, optional 27000mAh 110V ~ 220V universal adapter for recharging
Detection range	Solid, liquid, powder
Detector	SDD detector or Fast-SDD detector (optional)
Detector resolution	128eV
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 filters with automatic switching function
Video system	500W pixel high resolution camera
Display screen	5 inch transflective LCD touch screen
Detection limit	The minimum detection limits ~ 5 ppm
Convenience of application	Intelligent curve matching
Data transmission	Digital multi-channel technology, SPI data transmission, waterproof mini USB
Operating ambient humidity	<90%
Operating environmental temperature	-20℃~+50℃
Dimensions	244mm (Length) x 90mm (Width) x 330mm (Height)
Instrument weight	1.7Kg

Skyray Instruments







Skyray Instruments USA, Inc 1717 N. Akard Street, Ste 2520 Dallas, Texas, 75201 USA +1 972 638 9035 www.skyrayinstruments.com sales@skyrayinstruments.com

Spectroscopy

Chromatography

Mass Spectrometry

Skyray Instruments specializes in the R&D, manufacturing and sales of analytical and measuring instruments in Spectroscopy, Chromatography and Mass Spectroscopy fields. Our Products include X-ray Fluorescence Spectrometry, Atomic Absorption Spectrometry, Gas Chromatography, Inductively Coupled Plasma Spectrometry, Mass Spectrometry and many others.

Skyray has been providing customers around the world with reliable and affordable Scientific Instruments for more than 20 years