



XRF GUN-3500



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

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>> A New Generation The Leader of Handheld XRF

Based on ten-year research and development experiences of portable instruments, XRF GUN handheld XRF adopt photoelectron, microelectronics, semiconductor, computer and many other technologies and develop the new generation of handheld XRF with IPR. XRF GUN-3500 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, XRF GUN-3500 is portable and convenient for testing.

After the implementation of RoHS in EU, ATL products of XRF series have become forceful instruments for toys manufactures to detect toys safety. A new generation of handheld harmful elements analyzer in ATL 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 in RoHs industry

- Electrical and electronic manufacturing
- Waste electrical and electronic recycling
- Machinery manufacturing and processing
- Toys production
- Packaging materials manufacturing
- Entry-exit inspection and quarantine

>> Application Advantage

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, XRF GUN-3500 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 XRF GUN-3500 is able to make on-site testing, greatly reducing the production cycle to save production time.effectively about the harmful elements. Meanwhile, XRF GUN-3500 can prove itself by testing directly on the surface with easy operation, largely improving testing efficiency.

02



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. XRF GUN-3500, 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, XRF GUN-3500 can make on-site testing and rapid classification on the large amount of electrical wastes.

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.

03



>> 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 benchtop'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 flushing means testing, and yellow flushing 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

- XRF GUN-3500 harmful elements analyzer is equipped with professional application software, specifically for Rohs industry; (Rohs analysis Cd, Pb, Cr, Br, Hg); Qualitative analysis, Quantitative analysis, Simplified analysis solution, Report creation and daily check features, the feature is intelligent, high sensitivity, shorttesting 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.

04

 Internal intensity correction method can correct deviation caused by uneven sample of different geometrics, densities and structures.



>> Technical Specifications

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: 1GB; system memory: 1GB; extended stored maximum support 32GB ; standard 4GB for mass storage	
The content range	(sensitivity) data 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 100V -240V 50Hz 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 autom switching functions	
Video system	500W pixel high resolution camera	
Display screen	Brand new 5 inch transflective 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	our 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	
Material	Adjustable angle, robust and rugged construction	
Others	Shield against possibility of puncture, Radiation Shielding and warning indicator for X-Ray emission	

05



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 signalsIndicator system	Green light means power on, red flushing means testing and yellow flushing means the problems
Accessories	Three-military-protection-box is compression, waterproof and shock absorption. Universal charger and car charger, 4GB 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 choosen

Exclusive Accessories





HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicin	g:HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most
	affordable cost.
Trainings	:We also take up preventive Maintenace to reduce downtime of HPLC's Trainings.
AMC's/CMC	:AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-
	shooting.
Validations	:Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.

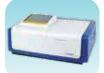




About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

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Fully Automated

CLIA



DSC/TGA

NOVA-2100

Chemistry Analyzer



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HEMA 2062 Hematology Analyzer



Flash Chromatograph





URINOVA 2800

Urine Analyzer



Liquid Partical Counter



Total Organic Carbon 3800



Water purification system



PCR/Gradient PCR/

RTPCR





TOC

Analyzer

Reader/Washer

Micro Plate





Laser Particle

Ion Chromatograph Size Analyzer

Atomic Absorption

Spectrophotometer

Regulatory compliances



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Reach us @





Technologies Limited

HPLC Solutions Corporate & Regd. Office: Analytical House, # E67 & E68,

Ravi Park, Vasna Road, Baroda,

Gujarat 390 015. INDIA

T +91 265 2253620 +91 265 2252839 +91 265 2252370 F: +91 265 2254395

MultipleLabs

Analytical Bio-Med **Analytical Distributors**

E: info@hplctechnologies.com

info@analyticalgroup.net

info@analyticalbiomed.com

info@multiplelabs.com

Analytical Foundation (Trust)

W. www.analvcalgroup.net www.hplctechnologies.com www.multiplelabs.com www.ais-india.com

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