

Alloy Analyzer GunX-series

GunX-series handheld alloy analyzer optimized for fast measurements and sorting of Metal Alloys, Minerals, Soil, Refractories, Geological Samples, Archeology, Hazardous Substances, and many more non-destructively



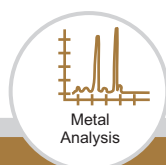
Quantum the well-known name in analytical instrumentation created the best line of handheld alloy analyzers to suit desired elemental applications with its rich experience in X-ray technology and working with worldwide renowned XRF manufacturers. All its series has standardized & field worthy common platform. These handheld alloy analyzers are available for rapid and accurate positive material identification. Specially built lightweight and robust design allows to work under harsh environmental conditions and deliver exceptionally precise elemental analysis and alloy grade identification in seconds.

GunX has completely sealed construction with tough and light weight alloy plastic for dust free and waterproof operations. Its innovative technology brings true lab quality performance to handheld analyzers delivering upto 10X faster measurement time than conventional analytical techniques. It provides the highest sensitivity and measurement accuracy and capability to detect light elements without need for vacuum or helium purge.

Salient Features

- Rapidly identifies alloy and grades
- Light weight, balanced ergonomic free standing design
- Detector protection with high speed shutter
- Small spot and high-resolution camera option
- Runs on Android OS with mobile phone connectivity
- Easy upgrade path for lower to high models

It is powerful tool with advanced technology provide ultimate results without much of sample preparations. This user friendly analyzer allows multi-elemental analysis in variety of applications. Several options are available including lab stand, external printer, high resolution camera, adaptors for wire & weld joints, hot surface measuring window, special collimators, special analytical packages etc. The shock-proof and water resistant carrying case allows user to carry or ship the unit anywhere. A holster with belt strap can be used to keep the unit handy.



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Standard Specifications:

- Principle** Energy Dispersive (ED-XRF) X-Ray Fluorescence analyzer to measure alloys and minerals
- Design** Handheld Gun type robust unit best optimized for various elemental applications
- Processor** ARM Cortex-A9 dual-core, 14-bit ADC with 8K channel MCA for high speed data transfer, results storage on 8GB SD card
- Display** 5" color touchscreen smart phone type display, 3D graphic
- Calibration** Fundamental Parameters. Built-in alloy grade library. For geology & environmental soil applications, users may choose "Compton Normalization" method and/or use empirically derived calibrations. SS316 internal shutter mechanism allows automated calibration check and energy scale validation
- Data Transfer** Wifi, Bluetooth, USB connectivity to most devices, including Profile Builder PC software
- Power** On board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power, hot-swap capability (60s max swap time)

	GunX-50	GunX-100	GunX-200	GunX-300
Excitation Source	40kV, 200uA Rh/Au anode	40kV, 200uA Rh/Au anode	40/50kV, 200uA Rh/Au anode	50kV, 200uA Rh anode
Primary Filter	Fixed filter application optimized	4 position filter wheel for beam optimization	6 position filter wheel for beam optimization	6 position filter wheel for beam optimization
Detector Type	7mm ² silicon PIN diode detector	20mm ² silicon drift SDD detector	20mm ² silicon drift SDD detector	20mm ² fast silicon drift SDD detector
Resolution	<190eV	<145eV	<135eV	<120eV
Element Range	Ti (22) to U (92)	Ti (22) to U (92)	Mg (12) to U (92)	Mg (12) to U (92)
Key Features	Most economical model, great for sorting most SS, high temps, red metals in 3-5 seconds	For elements titanium and higher. Perfect for locations requiring the speed and precision of an SDD detector, but with no need for light element analysis.	Most popular model offers comparable speed/precision as top-of-the-line competing brands, at a lower price point, in a smaller, lighter package.	Premium model in terms of speed & precision for all alloys. Measures key alloying low level, light elements like Mg, Al, Si, S and P in few seconds.
Precision @60sec	< 0.2%	< 0.2%	< 0.1%	< 0.1%
Application Area	Elemental, Alloy, Precious Metals	Elemental, Soil, Alloy, Precious Metals	Geo-Mining, Soil, Minerals, Alloy, Precious Metals, RoHS	Geo-Mining, Soil, Minerals, Refractories, Alloy, RoHS
Dimensions(WxDxH)	7.25x10.5x4.5 inch	7.25x10.5x4.5 inch	7.25x10.5x4.5 inch	7.25x10.5x4.5 inch
Weight	<1.5kg with battery	<1.5kg with battery	<1.5kg with battery	<1.5kg with battery

- GunX-series is a trademark of Quantum Equipment Co. Pvt. Ltd., Mumbai - India.
- The above listed specifications are standard and any specification change or special product modification available upon request

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