



SciAps X-200 Specifications

SciAps X-200 XRF analyzer is the perfect blend of high performance and attractive price. It's a top-performing SDD with highly optimized X-ray tube and detector geometry, plus improved heat dissipation, reduced weight, and improved durability. Operates on Android OS using Wi-Fi and software with the ease of a smart phone for revolutionary speed, connectivity, and test data management.

Totally re-engineered

- Weighs only 3.1 lbs. with battery
- Redesigned heat sinking can operate continuously up to 110 °F (43 °C) ambient temperature
- New internal circuit boards
- New housing and upgraded metal components
- Up-to-date software, user interface, and calibration



High performance and value

The X-200 Series are the lowest priced XRF guns on the market, yet still offer best-in-class analytical and speed performance, with all the accuracy and throughput of SciAps flagship X-550 and X-505.

X-ray tube

40 kV Rh anode for alloys

50 kV Au anode for geochem, soil, RoHS



Alloys

Fast on every alloy family, SciAps X-200 is a great choice for scrap processing, non-destructive testing and manufacturing quality control.



Geochemistry/Soils

Industry-comparable precision, LODs and elemental range for environmental, pathfinder, exploration and mining. Analyzers maybe factory calibrated with fundamental parameters, Compton Normalization (EPA Method 6200), or user-defined derivative calibrations.



RoHS

Fast, precise analysis for Pb, Hg, Cd, Br and Cr, plus other restricted materials and Halogen Free requirements. Operates at three beam conditions for optimized LODs across the element suite. Automated sample type recognition (polymer, alloy, or mixed type).

SciAps
Scientific
Applications

All internal electronics now use less power and operate at higher temperatures—no delays due to drift or shutdown.



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Weight	3.1 lbs with battery
Dimensions	9.38in (238mm) x 11.15in (283mm) x 3.34in (84mm)
Power	On-board rechargeable Li-ion battery, rechargeable inside device or with external charger, and AC power.
Display	5" color touch screen, smartphone-type display – PowerVR SGX540 3D graphic
Sample Viewing	Internal camera for viewing sample before and during analysis for proper sample alignment. Second macro-camera for scanning QR or barcodes and for photo-documentation and report generation.
Comms/Data Transfer	Wi-Fi, Bluetooth, USB. Connectivity to most devices, including SciAps Profile Builder PC software.
Excitation Source	6-40kV, 200uA Rh anode for alloy testing, 6-50kV, 200uA Au anode for most other apps.
Detector	20mm ² silicon drift detector (active area), 135eV resolution FWHM at 5.95Mn K-alpha line.
X-Ray Filtering	6-position filter wheel for beam optimization.
Processor	ARM Cortex -A9 dual-core / 1.2GHz Memory: 1GB DDR2 RAM, 1GB NAND
Pulse Processor	14-bit ADC with digitization rate of 80 MSPS 8K channel MCA USB 2.0 for high speed data transfer to host processor; digital filtering implemented in FPGA for high throughput pulse processing 50nS – 24uS peaking time
Calibration	Fundamental Parameters, Compton Normalization, and/or Compton Normalization for Alloy, Geochem, Environmental and Soil calibrations.
Calibration Check	Internal shutter is also 316 stainless for totally automated calibration and energy scale validation.
Environmental Temp. Range	10°F to 130°F at 25% duty cycle.
Security	Password protected usage (user level) and internal settings (admin).
Regulatory	CE, RoHS, USFDA registered, Canada RED Act.

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