SciAps X-200 for Alloy Analysis
Specifications

Get exactly what you need in a perfect blend of high performance and attractive price. A little beefier than SciAps sleeker models, X-200 still offers comparable or superior speed and precision to the top end analyzers from other brands. Combining a top-performing SDD with highly optimized X-ray tube and detector geometry, the X-200 is rapidly becoming the choice for scrap processing and non-destructive testing. It's fast on every alloy family, including aluminum alloys.

The workhorse XRF

- **50 kV anode**
- **Factory calibrations, or user-defined empirical calibrations**
- **Fast, precise results at a great value**

X-200
XRF

Fast, precise tests with SciAps X-200

SciAps X-200 analyzes common alloys in 1-2 seconds or less. Alloys requiring longer test times or two-beam light-element analysis are readily measured by industry-specific apps. Tap the Alloy App for ultra-fast verification of any metal. Even aluminum grades that confound other X-ray guns — 3003/3004/3005, cast 356 and 357, and 2014/2024 — are easy for the X-200. The analyzer uses pre-set testing times to measure low concentrations of Cr, Ni, and Cu, then calculates its sum. Operators won't be adjusting test times in the field or generating unexceptional data due to insufficient testing times.

Connectivity and Android

Built on Google's Android platform, SciAps X Series has the feel of a smartphone, with results easily viewed on a vibrant display and on-board macro camera for photo-documentation or 2D/3D bar code reading and storage. Use built-in Wi-Fi, Bluetooth, GPS and USB to print, email, or connect to virtually any information management system for efficient test data and reporting.

XRF & LIBS

Need carbon? Add LIBS in One Box.

For users who need to also measure carbon in steels, stainless and cast iron, SciAps manufacturers the world's only handheld laser system (LIBS) capable of measuring carbon content low enough to separate L and H grade stainless. The Z also analyzes beryllium, boron and lithium in alloys. Packaged together with shared accessories in the One Box, the X and Z provide optimal performance for virtually every alloy and element, and for less money than a comparable spark OES system.

For more information, or to schedule a demonstration:
SciAps.com
+1 339.927.9455

SciAps

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Ultra Fast, Precise X-ray Fluorescence Analyzer

Weight	3.1 lbs. (1.40kg) with battery
Dimensions	9.38in (238mm) x 11.15in (283mm) x 3.34in (84mm)
Excitation Source	5 W X-ray tube. Typical: 50 kV, 200 uA Rh anode and 10kV, 200 uA for alloy testing, 50 kV, 200 uA Au anode for most other apps
Detector	20 mm^2 silicon drift detector (active area), 140 eV resolution FWHM at 5.95 Mn K-alpha line
Available Apps	Alloy, Geochem (Mining), Empirical, Environmental, RoHS apps. New apps are added regularly, please check with company or website.
X-ray Filtering	Multi-position filter wheel for beam optimization
Environmental Temperature Range	10F to 130F at 25% (-12.2C to 54.44C) duty cycle
Analytical Range	32 elements standard, specific elements vary by app. Additional elements may be added upon user request. Precious metals app is 22 elements standard.
Processing Electronics and Host Processing	1.2GHz quad ARM Cortex A53 64/32-bit, RAM: 2GB LP-DDR3, Storage: 16 GB eMMC (storage)
Pulse Processor	12 bit 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 20 nS - 24 uS peaking time.
Power	On-board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power, hot-swap capability (60 s max swap time)
Display	3.5-inch(88.9mm) color capacitive touchscreen — 400 MHz Qualcomm Adreno 306 2D/3D graphics accelerator
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	Wifi, Bluetooth, USB connectivity to most devices, including SciAps ProfileBuilder PC software
Calibration	Fundamental parameters. For Geochem and Environmental Soil apps, users may also choose "Compton Normalization" method and/or use empirically derived calibrations.
Calibration Check	External 316 stainless check standard for calibration verification and energy scale validation
Grade Library	Standard library contains 500+ grades, no practical size limit. Multiple libraries supported, grades may be added on analyzer or via PC software package (ProfileBuilder)
Security	Password protected usage (user level) and internal settings (admin)
Regulatory	CE, RoHS, USFDA registered, Canada RED Act

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