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# SciAps X Series Specifications

## Ultra Fast, Precise X-ray Fluorescence Analyzer.

The SciAps X represents a completely reinvented handheld XRF. It delivers small size, blazing speed and high precision – three critical features that previous technology could not combine. The X features a small, lightweight, well balanced form factor for users that need the ultimate in portability. The X also utilizes a unique close-in sensor geometry, and the latest detection and high speed signal processing technology. The result is an XRF that operates at high count rates, with high resolution, and nearly 100% live time – 3 operating parameters never before achieved. The result is speed and precision, all in a well-balanced 3 pound form factor.

### Useability and Connectivity

The X, like the Z is built on Google's Android operating system. Your software platform will never be obsolete. The analyzer has the ease of use and feel of a Smartphone. And with **built-in Wifi, Bluetooth, GPS and USB** you can print from the X, email from the X, and connect to virtually any information management system. The vibrant 5" Smartphone display means results are easily viewed, in all lighting conditions. The X leverages the latest 5" Smartphone display technology and ruggedized SDD detectors.

### The X features

The industry's only high-speed shutter to shield the drift detector. It's a unique impenetrable high speed steel shutter that only opens during testing.

### Standard Accessories

Waterproof carrying case, 2 Li-ion batteries, charger, USB cable, Standard ProfileBuilder software for importing, editing alloy grade libraries (alloy App), viewing, saving results, data display. Wrist strap, Factory start-up training and support, Lifetime free software upgrades, Spare Prolene windows.

### SciAps also

manufactures the world's most advanced handheld LIBS analyzer - the **Z Series**. LIBS utilizes laser based excitation rather than X-ray radiation. Please contact us for our laser-based analyzers for alloys, minerals and other material testing.



Z Series **LIBS**



New X Series **XRF**

SciAps.com  
For more information, or to  
schedule a demonstration.  
**339.927.9455**

# SciAps

# SciAps X Series XRF Specifications

Ultra Fast, Precise X-ray Fluorescence Analyzer.

<b>Weight</b>	3.3 lbs with battery
<b>Dimensions</b>	7.25" x 10.5" x 4.5"
<b>Excitation Source</b>	6 - 40 kV, 200 uA Rh anode for alloy testing, 6 - 50 kV, 200 uA Au anode for most other Apps.
<b>Detector</b>	20 mm 2 silicon drift detector (active area), 135 eV resolution FWHM at 5.95 Mn K-alpha line.
<b>Available Apps</b>	Alloy, Geochem (Mining), Empirical, Environmental Apps. New Apps are added regularly please check with company or website.
<b>X-ray Filtering</b>	6 position filter wheel for beam optimization.
<b>Environmental Temperature Range</b>	10F to 130F at 25% duty cycle.
<b>Analytical Range</b>	32 elements standard, specific elements vary by App. Additional elements may be added upon user request. Precious metals App is 22 elements standard.
<b>Processing electronics Host processor</b>	ARM Cortex -A9 dual-core / 1.2 GHz Memory: 1 GB DDR2 RAM, 1 GB NAND Results Storage: 8 GB SD
<b>Pulse processor</b>	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 – 24 uS peaking time
<b>Power</b>	On board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power, hot-swap capability (60 s max swap time).
<b>Display</b>	5" color touchscreen Smartphone type display - PowerVR SGX540 3D graphic.
<b>Comms/Data Transfer</b>	Wifi, Bluetooth, USB. Connectivity to most devices, including SciAps ProfileBuilder PC software.
<b>Calibration</b>	Fundamental parameters. For Geochem and Env. Soil Apps, users may also choose "Compton Normalization" method and/ or use empirically derived calibrations.
<b>Calibration check</b>	Internal shutter is also 316 stainless for totally automated calibration and energy scale validation.
<b>Grade library (alloy)</b>	500+ grades, multiple libraries supported, grades may be added on analyzer or via PC software package (ProfileBuilder).
<b>Security</b>	Password protected usage (user level) and internal settings (admin).
<b>Regulatory</b>	CE, RoHS, USFDA registered, Canada RED Act.



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