SciAps X-5 for Alloy Analysis
Specifications

The totally reengineered X-5 is the highest performing XRF on the market that features the classic PiN diode detector technology. It offers best-in-class analytical performance and speed for this detector platform, operating at rates 2X or higher than other brands. Need optimal analysis on alloys, including common aluminums? SciAps powerful, miniaturized X-ray tube combined with highly advanced internal geometry yields fast, precise results for a suite of transition and heavy metal elements between Ti and Bi.

The classic model for many applications at a great value.

- **Premium X-ray hardware for reliable handling**
- **Optimal performance on high-value metals Ni, Co, Cu, Ta, W, Mo, and many more**
- **Fast, precise results**

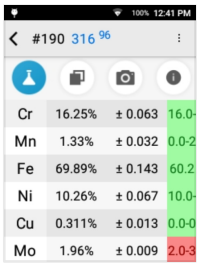
X-5
XRF

Reinventing a classic

X-5 utilizes the original "old school" PiN diode technology X-ray for great basic analysis of transition and heavy metals. For those who don't need to measure Mg, Al, Si, S, or P, SciAps X-5 is the perfect choice. We've re-engineered this classic detector technology and equipped it with more features: a built-in, high-resolution camera for sample viewing, such as welds; a macro-camera for photo-documentation or 2D/3D bar code reading and storage; and global connectivity to share results instantly using Bluetooth/Wi-Fi on a familiar Android platform.

Standard element package

The X-5 includes the same advanced X-ray tube technology as other SciAps X Series models (operating at 40 kV max) for testing, that includes Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, W, Ta, Hf, Re, Se, Au, Pb, Bi, Zr, Mo, Pd, Ag, Cd, Sn, and Sb. More elements can be added upon request.



Full sample chemistry displayed in less than a second.

Android and data management

Operates on Android OS with the feel of a smartphone. Using Bluetooth/Wi-Fi and USB, users can print, email, and connect to virtually any information system for real-time data. On-board macro camera allows for photo-documentation, and Bluetooth label printer provides instant hard copy labels.

Use **SciAps Test Station** to analyze small pieces in benchtop mode. Features an interlocking lid for your protection and super stable base to keep samples positioned correctly.

For more information, or to schedule a demonstration:

SciAps.com

+1 339.927.9455

SciAps

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A classic model for many applications at a great value.

Weight	2.9 lbs. with battery.
Dimensions	8.5" x 9.5" x 2.4"
Excitation Source	4 W, 40 kV Rh Anode X-ray Tube on standard X-5.
Detector	7 mm^2 PIN diode detector (active area), 200 eV resolution FWHM at 5.95 Mn K-alpha line.
Available Apps	Alloy analysis, Precious Metals.
X-ray Filtering	Single primary beam filter
Environmental Temperature Range	10F to 130F at 25% duty cycle.
Analytical Range	24 elements standard, specific elements vary by app. Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, W, Ta, Hf, Re, Se, Au, Pb, Bi, Zr, Mo, Pd, Ag, Cd, Sn, and Sb. Additional elements may be added upon user request. Precious Metals app is 23 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.
Display	2.7-inch color capacitive touchscreen — 400 MHz Qualcomm Adreno 306 2D/3D graphics accelerator
Comms/Data Transfer	Wi-Fi, Bluetooth, USB connectivity to most devices, including SciAps Profile Builder PC software. SciAps Cloud data management options available.
Calibration	Fundamental parameters.
Calibration Check	External 316 stainless check standard for calibration verification and energy scale validation.
Security	Password protected usage (user level) and internal settings (admin).
Dual Cameras	Internal high-resolution camera for sample viewing, welds, etc. Macro-camera for photo documentation, reading and storing 2D/3D barcodes and QR codes.
Regulatory	CE, RoHS, USFDA registered, Canada RED Act.

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