



SciAps X-5 Precious Metals Specifications

The totally re-engineered X-5 offers the industry's best user interface and ergonomics at a high-value price point. Need optimal performance on precious metals? SciAps powerful, miniaturized X-ray tube, combined with highly advanced internal geometry, yields fast, precise results, delivering in real time the Au, Ag, Pt, and Pd concentrations. Valuable metals are now even more profitable for the precious metals industry.

A classic model for many applications at a great value.

- Premium X-ray hardware for reliable handling
- Optimal performance on precious metals like Au, Ag, Pt and Pd
- Fast, precise results



Optimized handling

X-5 is the original “old school” PiN diode technology X-ray for great basic analysis of transition and heavy metals. The analyzer includes a built-in, high-resolution camera for photos or video, high-strength polymer mesh to protect the detector, and global connectivity to share results instantly. It also features new internal circuit board, new housing and metal components, up-to-date software and user interface, and full recalibration.

Standard element package

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

Full sample chemistry—and karat value—displayed in less than a second.

18.24 Karat		
Ni	2.09%	± 0.063
Cu	9.69%	± 0.111
Zn	1.46%	± 0.049
Ag	10.75%	± 0.108
Au	76.00%	± 0.385

For more information, or to schedule a demonstration:

SciAps.com
+1 339.927.9455

SciAps



Android and data management

Built on Android OS with the feel of a smart phone and results easily viewed on a vibrant display. Built-in WiFi and USB mean that users can print and email from the X-5 and connect to virtually any information system for real-time data. On-board macro camera allows for photo-documentation of materials tested, and the 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.



A classic model for many applications at a great value.

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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
Detector	7 mm ² PIN diode detector (active area), 200 eV resolution FWHM at 5.95 Mn K-alpha line.
Available Apps	Precious metals.
X-ray Filtering	Up to 6 unique filtering positions, depending on mix of applications.
Environmental Temperature Range	10F to 130F at 25% duty cycle.
Analytical Range	32 elements standard, specific elements vary by app. Additional elements may be added upon user request. Precious Metals app is 23 elements standard.
Processing Electronics and Host Processing	ARM Cortex -A9 dual-core / 1.2GHz Memory: 1GB DDR2 RAM, 1GB NAND Results Storage: 8GB SD.
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.
Power	On-board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power.
Display	2.7" color touchscreen smartphone-type display. PowerVR SGX540 3D graphic.
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).
Regulatory	CE, RoHS, USFDA registered, Canada RED Act.

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SciAps Inc.
7 Constitution Way
Woburn, MA 01801
sales@sciaps.com
SciAps.com
+1 339.927.9455

 [YouTube.com/SciAps](https://www.youtube.com/SciAps)

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