SciAps X-50 for Precious Metals
Specifications

The "classic" model for many applications at a great value.

The totally reengineered X-50 is the lowest priced XRF on the market and still best-in-class for analytical performance and speed, with the same accuracy and throughput as SciAps premium models. 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.

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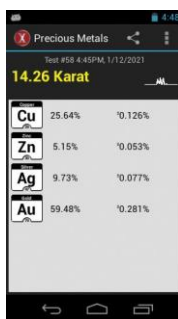- **Fast precise results**

Optimized handling

X-50 is the original "old school" PiN diode technology X-ray for great basic analysis of transition and heavy metals. The analyzer includes built-in high-resolution camera for photos or video, and a high-strength polymer mesh to protect the detector between tests, and global connectivity to share results instantly.

The totally re-engineered X-50 now 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-50 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.

Precious Metals
Test #58 4:45PM, 1/12/2021
14.26 Karat

Cu	25.64%	⁵0.126%
Zn	5.15%	⁵0.053%
Ag	9.73%	⁵0.077%
Au	59.48%	⁵0.281%

Full sample chemistry—and Karat value—displayed in seconds

Android and data management

Built on Android OS with the feel of a smartphone and results easily viewed on a vibrant display. Built-in WiFi and USB mean that users can print and email from the X-50 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 XRF Test Stand to analyze small pieces in benchtop mode. Features interlocked lid for your protection and super stable base to keep your samples positioned correctly and safe.

SciAps

X-50
XRF

Quantum RX

For more information, or to schedule a demonstration:
https://quantum-rx.com
+33 (0)1 60 12 26 94

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Weight	3.3 lbs. with battery
Dimensions	7.25" x 10.5" x 4.5"
Excitation Source	4 W, 40 kV Rh Anode X-ray Tube on standard X-50 5 W, 50 kV Au Anode X-ray Tube on X-50+
Detector	7 mm2 PIN diode detector (active area), 200 eV resolution FWHM at 5.95 Mn K-alpha line
Available Apps	Alloy, Mining, Empirical, Soil apps. New apps are added regularly, please check with company or website.
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	4.3" color touchscreen Smartphone type display – PowerVR SGX540 3D graphic.
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
Security	Password protected usage (user level) and internal settings (admin)
Regulatory	CE, RoHS, USFDA registered, Canada RED Act

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