



SciAps PowerHouse PM

Gold Karating & Precious Metals

The world's first *truly portable*, battery-powered benchtop analyzer for precious metals — engineered for accuracy, speed, and safety.

- Battery-powered + Portable
- Fast, Precise Results
- Plating Alert Technology



What Makes PowerHouse X Exceptional?

Feature	PowerHouse X
Superior Accuracy & Precision	The PM utilizes silicon drift detector technology, yet priced at competitor's low-end PiN diode systems.
Instant coating alert	Don't be fooled by plated materials.
Standard 3 mm spot size and targeting scope	Hit your analysis region precisely.
Two internal cameras	One for targeted analysis, one for the sample tested.
Leaded glass window	Never lose sight of your material being tested.
Benchtop + Portable	Sits on the bench, battery or AC powered, but can be carried anywhere with fold-out handle.
Security	Won't "walk off" like a handheld might, and delivers true portability.
Safety	Interlocked, closed beam, perfectly shielded for ZERO radiation exposure.
Blazing speed	Karat read-out in 1 sec, distinguish 4-9 gold from 24 karat (999) in 10 seconds.
Battery life 4-6 hours	The PM comes standard with one battery and a charger. Buy a 2nd battery, take advantage of our "hot swap" capability making battery life as long as you need it to be!

For more information, or to schedule a demonstration:

SciAps Inc.

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SciAps

The PowerHouse X isn't just another benchtop analyzer. Designed originally for rare earth element analysis, it's now re-engineered for exceptional performance in precious metals and gold content. Compact, fast, and incredibly accurate — this analyzer brings laboratory-grade precision to any environment.

Weighing in at 19.35 lbs. (8.78 kg) with battery, the PowerHouse X is built with a convenient handle, locking lid, and dual hot-swappable batteries for true field use.

Get highly accurate karat readings in seconds. Whether you're testing 18K gold or differentiating 3N (99.9%) vs 4N (99.99%) gold, the PowerHouse X delivers repeatable results with +/- 0.01% precision.



SciAps PowerHouse PM Specifications

Ready for the Real World



Trusted by jewelers, refiners, and precious metal buyers across the globe, the PowerHouse X makes karating, alloy identification, and fraud detection easier and faster than ever.

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

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Weight	19.35 lbs. (8.78 kg) with battery
Dimensions	10.1" x 13.8" x 13.4" (256 x 350 x 340mm)
Excitation Source	4 W X-ray Tube. 40 kV, W anode
Detector	7mm ² silicon drift detector (active area). < 170eV resolution FWHM at 5.95 keV Mn K-alpha line
Available Apps	Precious Metals
Environmental Temperature Range	10F to 130F at 25% (-12.2C to 54.44C) duty cycle
Analytical Range	Precious Metals app is 24 elements standard. Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, W, Ir, Pt, Au, Pb, Bi, Zr, Mo, Ru, Rh, Pd, Ag, Cd, Sn and Sb. Additional elements may be added upon user request
Processing Electronics and Host Processing	1.2 GHz quad ARM Cortex A53 64/32-bit; RAM: 2 GB LP-DDR3; Storage: 16 GB eMMC (storage)
Pulse Processor	12 bit with digitization rate of 80 MSPS 8K channel CA 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	1 on-board rechargeable Li-ion battery, 2 nd battery is optional, rechargeable inside device or with external charger, AC power, hot-swap capability (one battery at a time)
Display	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. GPS capable. Cloud data management options available
Calibration	Fundamental Parameters
Calibration Check	External 316 stainless standard for calibration verification and energy scale validation
Sample Viewing	Internal high-resolution camera for sample viewing and targeting. Second macro-camera for photo documentation, reading and storing 2D/3D barcodes and QR codes.
Security	Password protected usage (user level) and internal settings (admin)
Regulatory	CE, RoHS, USFDA registered, Canada RED Act.

Seen at JCK Las Vegas — *Immediate Sales on the Spot!*
"Best-looking benchtop analyzer out there."
– Industry engineers and users agree.