



SciAps PowerHouse RoHS Specifications

Bench stability. Portable flexibility. Powerful RoHS performance.

- Fully shielded chamber
Interlocked lid
- Leaded-glass viewing
window
- Mechanical transport lock

Applications

- RoHS Compliance**
Screen electronics, plastics, coatings, and other materials for restricted substances.
- REACH Compliance**
Screen consumer products, textiles, jewelry, and other materials for elements associated with SVHCs.
- Restricted Metals Screening**
Identify regulated elements in polymers, alloys, paints, coatings, and mixed materials.
- Halogen Screening**
Detect bromine and chlorine to help identify halogen-containing materials and support halogen-free screening.
- Quality Control & Incoming Inspection**
Verify materials and components before they enter production or reach customers.
- CPSIA Compliance**
Test children's products and components for restricted metals such as lead and cadmium.

Portable Benchtop Analysis for RoHS & Restricted Metals Compliance

The SciAps PowerHouse RoHS combines the safety and convenience of a fully enclosed benchtop analyzer with the portability of a compact, battery-powered system. Designed specifically for RoHS and restricted metals testing, it delivers rapid, reliable analysis of lead, cadmium, mercury, chromium, bromine, chlorine, and other regulated elements in polymers, alloys, coatings, and consumer products.

At approximately 19 lbs, PowerHouse Benchtop can be used as a stationary benchtop system or easily transported wherever testing is needed. Two batteries provide extended portable operation. Operate from AC power when stationary or use battery power when portability is required. Batteries can be charged while operating on AC power.



Simple, Intuitive RoHS Software

PowerHouse uses the same proven RoHS software platform as SciAps handheld analyzers, now optimized for the benchtop experience.

A bright 7-inch display provides a clear view of the sample and analytical results. Automatic sample classification determines the appropriate calibration and action levels, making pass/fail decisions straightforward.

User-configurable action levels allow additional elements and limits to be incorporated for specific testing requirements.

Designed for RoHS Compliance Testing

PowerHouse RoHS is engineered to analyze lead, cadmium, mercury, chromium, bromine, and chlorine in a variety of materials, including polymers, alloys, paints, coatings, and other consumer products.

For more information, or to schedule a demonstration:

SciAps Inc.

+1 339.927.9455

SciAps



SciAps PowerHouse RoHS Specifications



Weight	19.5 lbs. (without battery)
Dimensions	H: 13.5" W: 10" D: 14"
Excitation Source	5W X-ray Tube. Typical RoHS operation at 50 keV with potential of 200uA at 10 keV.
Detector	25 mm ² silicon drift detector (active area). <140 eV resolution FWHM at 5.95 Mn K-alpha line.
Available Apps	Alloy, Mining, Soil, Empirical, RoHS, Precious Metals, Industrial Lead Paint, Car Cat apps. New apps are added regularly, please check with company or website.
X-ray Filtering	6 position filter wheel for beam optimization.
Environmental Temperature Range	10° F to 130° F at 25% duty cycle.
Analytical Range	32 elements standard, specific elements vary by app. Additional elements may be added upon user request.
Processing Electronics & Host Processing	1.6 GHz ARM Cortex-A53 quad-core, 64/32bit. RAM: 4GB LP-DDR4. Storage: 32GB eMMC
Pulse Processor	14-bit ADC with digitization rate of 80 MSPS 8K channel MCA high-speed serial data transfer to host processor. Digital filtering implemented in FPGA for high- throughput pulse processing 50 nS - 24 uS peaking time
Power	On-board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power, hot-swap capability (60 s max swap 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.
Calibration	Automated switching between matrix types. RoHS Alloy utilizes Fundamental Parameters calibration. For RoHS Plastic a "Compton Normalization" method is used.
Calibration Check	External 316 stainless check standard for calibration verification and energy scale validation.
Security	Password protected usage (user level) and internal settings (admin).
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.
Regulatory	CE, RoHS, USFDA registered, Canada RED Act.

For more information, or to schedule a demonstration:

SciAps Inc.

+1 339.927.9455

SciAps