

Handheld XRF Spectrometers

SciAps X-550 Pb

With the latest X-ray tube and detector technology, SciAps X-550 is your lightest, fastest and most articulate lead paint analyzer. No radioactive sources, no isotope replacement means you don't need to worry about regulations and enjoy lower costs overall. It is available with either a rhodium X-ray tube anode or gold X-ray tube anode depending on what your projects requires. This spectrometer tests between 2 seconds and a max of 6 seconds.

FEATURES

- EPA/HUD Compliant XRF for lead paint featuring Performance Characteristic Sheets with no inconclusive range.
- 5 year warranty on X-ray tube.
- Fastest tests: 2-6 seconds and does not loose speed over time
- Uses electric current under high voltage to produce X-rays
- Will not emit X-ray between tests or if powered off
- Pre-configured Apps for every application
- Fully Automated Quick Mode option
- Real time data exporting
- Built-in Wif-Fi, Bluetooth, GPS and USB
- Intuitive User Interface
- Cloud-based data and fleet management system available



PERFORMANCE CHARACTERISTIC SHEETS

- PCS 0.5
- PCS 0.7
- PCS 1.0

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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(303) 320-4764 • **(800) 833-7958** • FAX (303) 322-7242

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SciAps X-550 Pb

SPECIFICATIONS

Module	X-550 PB
Weight	2.98 lbs. with battery
Dimensions	8.5" x 9.5" x 2.4"
Excitation Source	5 W X-ray tube. Typical: 40 kV, 200 uA Rh or Au anode. Anode choice depends on what other apps users may want to add.
Detector	20 mm ² silicon drift detector (active area), 140 eV resolution FWHM at 5.95 Mn K-alpha line.
Available Apps	Lead Paint App based on published PCS standard. Optional apps include Lead in soil, Alloy, Geochem (Mining), Empirical, Environmental Metals. Coming soon: Lead in dust wipes and air filters (NIOSH 7702)
X-ray Filtering	Standard 1 position filter. Upgradeable to 5 positions depending on additional apps added.
Environmental Temperature Range	10°F to 130°F at 25% duty cycle.
Analytical Range	Pb standard. Analyzer may be calibrated to report up to 32 elements with appropriate upgrades.
Processing Electronics and Host Processing	12 GHz 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, 20nS-24 uS peaking time.
Power	On-board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power, hot-swap capability (60s max swap time).
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.
Calibration	Linear or quadratic lead calibration with absorption and depth corrections.
Calibration Check	External 316 stainless check standard for energy-scale calibration verification. NIST 1.04 mg/cm ² lead paint standard on wooden substrate block for PCS calibration check standard, with other lead levels available for alternative action levels.
Security	Password protected usage (user level) and internal settings (admin).
Regulatory	CE, RoHS, USFDA registered, Canada RED Act.

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