



Partner for Test & Measurement
Equipment Services and Data Solutions

Nondestructive Testing (NDT) X-Ray Fluorescence (XRF) Analyzers



SciAps

X-550 XRF Analyzer

Pine Item #52361

DESCRIPTION:

The SciAps X-550 sets a new performance standard for handheld XRF. Weighing 2.8 lbs. (1.3 kg) with the battery, it is the lightest, fastest, most articulate X-ray gun ever made. It delivers the small size, blazing speed, and high precision of the SciAps X Series in a perfectly balanced device. It is fast on all alloys, including aluminum. The X-550 uses the industry's most powerful X-ray tube, operating up to 3x the power in the Beam 2 setting compared to the SciAps X-505 and other handheld XRF analyzers. The unique geometry and tube power optimize performance for low atomic number measurement applications including sulfidic corrosion (low Si), phosphorus and sulfur, and aluminum alloys, as well as for residuals analysis per API 751 and 5L specifications.



FEATURES:

- Fast on alloys, including aluminums
- NDT-PMI delivers PMI for most alloys in one second with excellent precision.
- Optimized for key PMI applications like Residuals and Sulfidic corrosion.
- Great on high temp alloys and precious metals.
- Designed for NDT, PMI users to access hard-to-reach test locations and welds.
- Sort your widest variety of Al alloys in 1-2 seconds.

APPLICATIONS:

- Contaminant Phosphorus and Sulfur.
- Tramp Elements.
- Mining
- Environmental soil.
- RoHS applications.



Contact a Pine branch near you to request a quote or place an order

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www.pine-environmental.com

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Product Specifications

Weight	2.8 lbs. with battery
Dimensions	7.25" x 10.5" x 4.5"
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	Wifi, Bluetooth, USB connectivity to most devices, including SciAps ProfileBuilder PC software.
Security	Password protected usage (user level) and internal settings (admin).
Regulatory	CE, RoHS, USFDA registered, Canada RED Act.
Excitation Source	40 kV, 200 uA Rh anode and 10kV, 500 uA for alloy testing, 50 kV, 200 uA Au anode for most other apps.
Detector	20 mm2 silicon drift detector (active area), 140 eV resolution FWHM at 5.95 Mn K-alpha line.
X-Ray Filtering	4 position filter wheel for beam optimization.
Processing Electronics and Host Processing	1.2GHz 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 20 nS – 24 uS peaking time.
Environmental Temp. Range	10°F to 130°F at 25% duty cycle.
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.
Analytical Range	32 elements standard, specific elements vary by app. Additional elements may be added upon user request.
Available Apps	Alloy, Geochem (Mining), Empirical, Environmental apps. New apps are added regularly.
Grade Library	Standard library contains 500+ grades, no practical size limit. Multiple libraries supported, grades may be added on analyzer or via PC software package (ProfileBuilder).



Video:
www.youtube.com/sciaps



Local Delivery & Pick-up



In-Stock Equipment



Repair & Calibration