

# Alpha Series™

analyzers provide on-site environmental metals testing.

**For point-and-shoot simplicity Innov-X offers the smallest, fastest and most versatile handheld XRF analyzer available.**

The Innov-X tube-based Alpha Series™ takes on-site environmental metals analysis to a new level. It features a miniature, rugged X-ray tube. The Alpha Series™ provides reliable analysis on RCRA, Priority Pollutant metals and other elements in soils, liquids, coatings, etc. Meets EPA Method 6200 for metals in soils, NIOSH Method 7702 for lead in air filters, OSHA Methods OSS1 and OSA1 for lead in surface wipes and air filters.



82 <b>Pb</b> Lead 207.2	2 8 18 32 18 4	80 <b>Hg</b> Mercury 200.59	2 8 18 32 18 2	48 <b>Cd</b> Cadmium 112.411	2 8 18 18 2	35 <b>Br</b> Bromine 79.9
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24 <b>Cr</b> Chromium 51.94
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Docking station/test stand with safety cover for analysis of bagged and prepared samples.

The Alpha Series™ identifies toxic metals, RCRA and other pollutants in a variety of samples.

## A summary of its testing capabilities:

- RCRA and Priority Pollutant metals analysis in a wide variety of samples.
- Metals in soil.
- Lead-based paint.
- Filter media.
- Dust wipe analysis.
- CCA (Chromated Copper Arsenate) treated wood, other construction materials or debris.
- Paints & coatings, hazardous waste classification, oils and liquids.

# Innov-X Alpha Series

The environmental analyzer for on-site, fast, confident screening of pollutants.

Rely on the Alpha Series™ for a wide variety of on-site environmental analyses. These include in-situ soil analysis for rapid site investigations and remediation projects. Operators may test directly on the ground or through bagged samples. By collecting and preparing soil samples you can achieve laboratory quality results in the field. The Alpha Series™ can be pre-calibrated for filters, coatings, CCA-treated wood and many other sample types.

## The PDA Advantage.

The Alpha Series™ is driven by the HP IPAQ pocket PC.

- Upgrade to new generations as available.
- Use different PDAs and preserve personal settings.
- Wireless data transfer – ideal for remote sites.
- Easily transfer data or download software and upgrades.



Custom holster lets you take Alpha Series™ anywhere.



Bluetooth enabled PDA for remote display, printing and data transfer.



## State-of-the-Art Technology.

Innov-X combines an X-ray tube source, multiple beam filtering and the HP PDA to deliver superior limits of detection, speed, precision and upgrade capability.

- Superior performance on Cr and other metals. Light Element Analysis Program (LEAP) analyzes P, S, Cl, K and Ca.
- Utilizes advanced and universal XRF data modeling:
  - Compton Normalization: "Internal Standard" provides for quantitative analysis without site-specific calibrations.
  - Fundamental Parameters: Standardless, ideal for samples with high and low concentrations of several elements.
  - Empirical Calibrations: "Calibration Curves", allows user-generated calibration curves.
- Add new elements and calibrations easily. Innov-X analyzers will meet your requirements today and in the future.
- View spectra on screen.
- Compare spectra for comparative analysis and display results versus standards.
- Stored tests can be re-run with new parameters or models.
- Data Security: stored in binary format for data integrity.

## Basic Specifications.

<b>Weight:</b> 2.625 lbs. (base wt.) 3.375 lbs (1.6 kg) with batteries.
<b>Excitation Source:</b> X-ray tube, W anode, 10-40 kV, 10–50 µA, up to 5 selectable filters.
<b>LEAP:</b> Delivers industry-leading detection limits on critical elements Cr, Cl, P, Ba, Ti, S, Ca, K.
<b>Detector:</b> Si PiN diode detector, < 230 eV FWHM at 5.95 keV Mn K-alpha line. Temperature Range: -10°C to +50°C.
<b>Operation:</b> Trigger or Start/Stop Icon. One-touch trigger or "deadman" trigger option. Optional control from external PC.
<b>Power:</b> Li-ion batteries, rechargeable (charger included). Powers analyzer and iPAQ simultaneously. AC Adapter optional.
<b>Battery Life:</b> 8 hours (typical duty cycle) using built-in, optional multiple battery pack.
<b>Number of Elements:</b> Standard package includes 20 elements.
<b>Standard Elements:</b> Pb, Cr, Hg, Cd, Sb, Ti, Mn, Fe, Ni, Cu, Zn, Sn, Ag, As, Se, Ba, Co, Zr, Rb. Common additions: W, Br, Tl.
<b>Display Screen:</b> Color, high resolution touchscreen. Variable brightness provides easy viewing in all ambient lighting conditions.
<b>Data Display:</b> Concentrations in ppm, spectra, peak intensities (count rate) or user-specified units, depending on software mode selected.
<b>Memory, Data Storage:</b> 128 Mb standard memory. 20,000 test results with spectra, upgrade to >100,000 with optional 1 Gb flash card.
<b>Processor:</b> Intel 400 MHz StrongArm processor or higher.
<b>Operating System:</b> Microsoft Windows CE (portable system) or Windows (PC-based). Software Modes: Soil, Filter/Wipes, Empirical. Others available upon request.

Specifications subject to change without notice.



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