A person in a forest holding a handheld XRF analyzer. The person is wearing blue jeans and brown boots. The background shows a lush green forest with tall trees and a large log in the foreground. In the upper part of the image, there are two smaller inset photos: one of a person kneeling and using a handheld XRF analyzer on a rock, and another of a person sitting on a log, looking out over the forest.

Handheld XRF Revolutionizes Environmental Testing

The Best Environmental Analyzer in the World

INNOV-X SYSTEMS

Innovative XRF Technologies



Environmental Testing Explore the World and Beyond

The advent of Innov-X Portable XRF analyzers has completely revolutionized environmental testing. Site sampling need no longer be a limiting factor in a comprehensive site investigation. In the past, studies relied exclusively on expensive and time consuming laboratory analysis based on samples they hoped fully characterized the site.

Portable XRF liberates and empowers environmental studies. While you're at the site, you can check the composition of soils,

debris, run off streams, dust wipes, coatings, corings, paints, plastic and wood. This means you won't lose precious time collecting non-representative samples and running up unnecessary lab costs.

Environmental studies can now save time and money with real-time, on-the-spot elemental analysis - from Magnesium to Uranium, from PPM to 100% - in solids, liquids, powders, cores, fragments, filters & films, slurries and more.

Portable XRF provides cost-effective, timely analysis. One simple test can analyze up to 25 separate elements in seconds, including priority pollutants. Portable XRF analyzers help you determine zonal and contamination patterns; track pollutant migration caused by extreme weather; perform real-time surveys to delineate and define metals present; essentially, help you evaluate data at the site for a rapid, comprehensive site investigation while you're there.

Classic PDA-based XRF

Innov-X Handheld XRF with removable PDA
World's first and still most portable tube-based handheld XRF

The Ultimate in Customer Choice

Innov-X customers choose the ideal environmental analyzer for their needs: The classic PDA-based model in a field-proven, rugged package. It offers the convenience of a removable PDA, instant data syncing to your computer, and all the features of an off-the-shelf device. Or do you need the ultra-rugged, sealed model with totally internal electronics? No PDA, just a tough, easy-to-use environmental analyzer with good ergonomic touch.

You can inexpensively convert PDA to Ultra-Rugged and vice versa anytime after purchase if you change your mind. Innov-X offers the most upgrade-able, flexible handheld XRF package available.

Ergonomic superiority

- The lightest weight, smallest, and best-balanced handheld XRF
- Bright, color display that is easy to read in any lighting conditions - even direct sunlight
- Touch trigger. No uncomfortable triggers to squeeze and hold. Comfortable "deadman" trigger also
- Dual display: Angled front display plus rear display for easy viewing of test results



| Feature | Removable PDA-Driven Controller | Integrated, Sealed Controller |
|-------------------------------------|---------------------------------|-------------------------------|
| Sealed to Moisture and Dust | | ✓ |
| Use PDA display and user interface? | ✓ | |
| Removable PDA | ✓ | |
| Operator can use Multiple PDAs | ✓ | |
| Color Touchscreen | ✓ | ✓ |



Introducing the Latest in Environmental Field Analysis Technology



Ultra Rugged Weatherproof

Innov-X Handheld XRF with fully integrated, sealed controller

Heavy-duty, ultra-ruggedized handheld XRF with industrial-grade touchscreen



Take it to the field ... where it really counts

Since its inception, Innov-X Systems pioneered a new approach to handheld environmental analysis. We delivered the world's first handheld x-ray fluorescence (XRF) analyzer using miniature x-ray tube technology – a system totally free of radioactive isotopes. And it was engineered around PDA technology to provide a worldwide standard operating system and microelectronics. It used a revolutionary 6-position filter wheel yielding optimal performance across the broadest range of elements.

The Innov-X design provided unprecedented upgrade-ability as new analytical needs emerged. For the first time ever, analyzers could be updated for new applications, elements or calibrations added. Obsolescence defied! There are now thousands of Innov-X Handheld XRF systems used worldwide for alloy, environmental, mining and other materials analysis applications.



Waterproof Case

| | | | | |
|--------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|
| 24 Cr Chromium 52.00 | 33 As Arsenic 30.97 | 48 Cd Cadmium 112.41 | 80 Hg Mercury 200.59 | 82 Pb Lead 207.20 |
|--------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|

Innov-X now offers two handheld configurations. One handheld XRF is a fully sealed, weatherproof XRF featuring a heavy-duty, ultra-rugged design that is impervious to moisture and dust. The second is our classic, popular handheld engineered around a removable PDA.

Either Innov-X Handheld XRF system is configured with a standard package of up to 25 elements including priority pollutants. They provide the element ID, its calculated concentration and the error of the measurement in seconds. You can specify additional or replacement elements at any time, provided they can be measured by handheld XRF.

Innov-X Handhelds: Comprehensive, High-Performance XRF in the Field

Innov-X portable XRF meets **EPA Method 6200** for metals in soil, **NIOSH Method 7702** for lead in air filters, and **OSHA Method ID-204** for lead in air filters and dust wipes. The **8 RCRA Metals and Priority Pollutant Metals** are easily monitored on-site with the Innov-X portable XRF.

In-Situ Soil Analysis for Rapid Comprehensive Site Investigations:

What does the EPA say?

In a recent Performance Evaluation, Innov-X generally outperformed all other “portable” XRFs and outperformed or matched laboratory (benchtop) XRFs.

Key Innov-X handheld performance points:

- Superior cadmium (Cd) LOD performance: 20ppm or less
- Best accuracy for Cd Analysis: RPD<10%
- Excellent limits of Detection in General: As, Cu, Pb, Hg, Se, and Zn
- Superior precision on RoHS Elements:

Pb, Cd, Hg all in the RSD<5% range;
As in the RSD<5% for China RoHS Regs

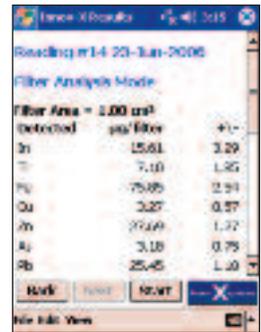
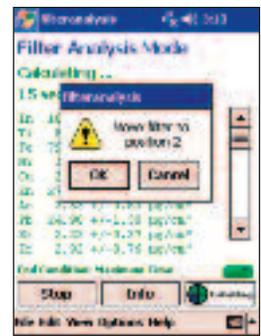
Superior performance of tube-based portable XRF

From a Government Study presented at the American Industrial Hygiene Conference and Exposition, May, 2003:

“It is clear that portable tube-based XRF technology is the most suitable multielemental analysis tool available for field work due to its simplicity, speed, precision, accuracy, reliability, and overall cost effectiveness. Innov-X Systems pioneered this technology to overcome

the significant limitations of early portable source-based systems...The newest and most exciting development in the field of portable XRF technology is the use of battery operated, miniature X-ray tubes pioneered by Innov-X Systems, Inc...The significant advancements by Innov-X Systems have taken portable XRF technology to the next level.”

Disclaimer: This is published data, but it is not an endorsement or recommendation by NIOSH or the EPA



**Lead (Pb) Paint Analysis:
Now available for residential lead-based paint testing**

- FIRST tube-based system to receive a HUD PCS
- Fast test results – as little as 3 seconds!
- Starts fast, STAYS fast – no isotope fade

Analyze paints, coatings and solid debris:

- Analyze Cd, Cr and other RCRA, Priority Pollutant Metals in paints, plastics
- CCA-treated wood products: Quantify Cr, As and Cu in seconds
- Screen debris for hazardous or non-hazardous disposal in lieu of TCLP testing

Measure filter media for air or liquid samples:

- Measure airborne metal concentration during renovation and welding
- Analyze TSP, particulate filter media on-the-spot, non-destructively
- Analyze metals in water, waste oils
- Achieve ultra-low detection limits after filtration

On-site analysis for dust wipes:

- Avoid Lead clearance failures
 - immediate assurance clearance standards met
- Superior risk assessment and EBL investigations
 - analyze more samples, on-site
- Perform metal screening at construction or disposal sites
 - Pb, U, others

In-situ soil analysis for rapid, comprehensive site investigations:

- Delineate metals present and contamination patterns
- Measure high volume of field tests to minimize off-site analytical costs
- Establish contamination boundaries and depth profiles for remediation and disposal
- Collecting soil cores? Test directly through plastic corings
- Works directly on bagged soil samples

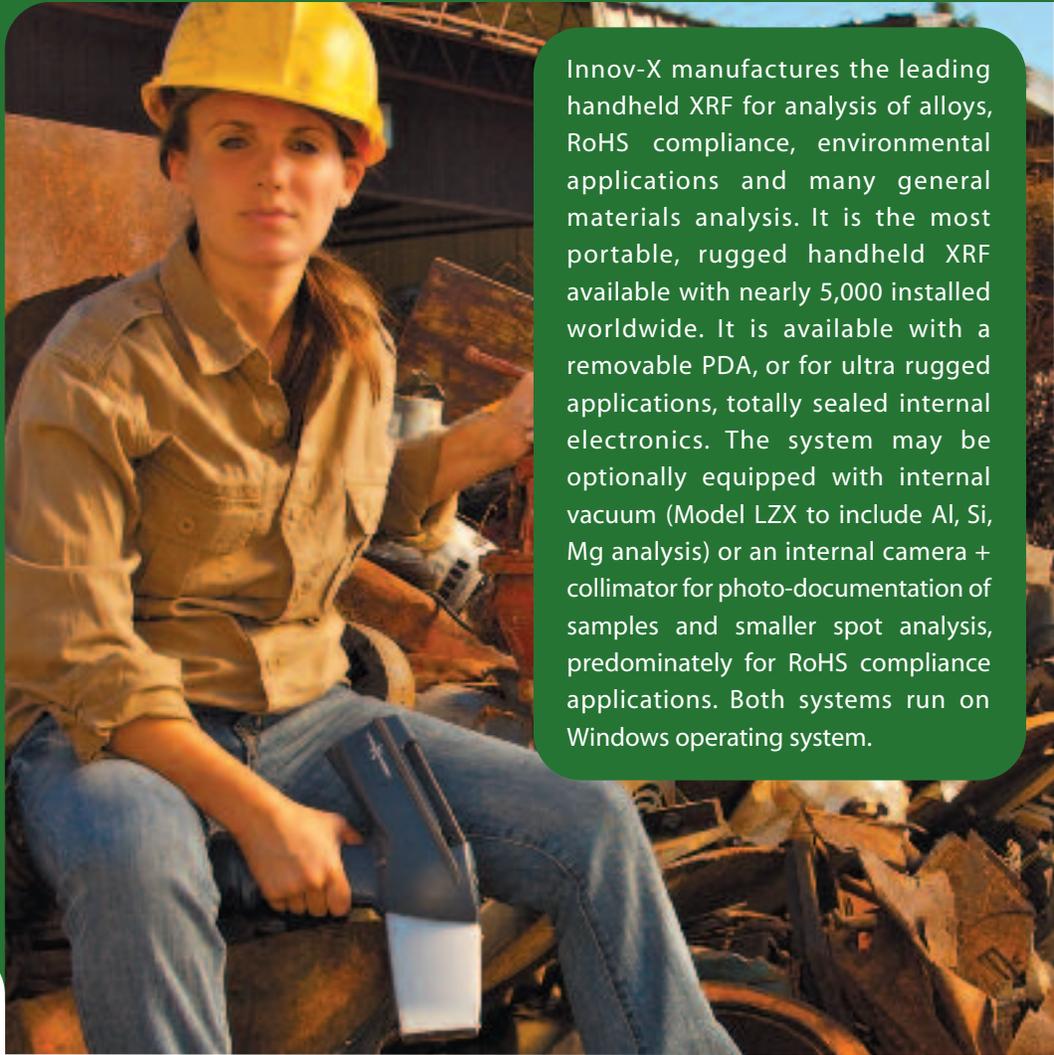
Collect samples to produce rock-solid analytical data at the site

- XRF is non-destructive – submit same sample for laboratory confirmation
- Avoid clearance failures! Assure requirements are met on-site
- Prepared soil sample testing assures the maximum possible accuracy – ask for our Guideline to Using Portable XRF according to EPA Method 6200 for more details!



| Common Elements | Handheld XRF LODs (ppm) |
|-----------------|-------------------------|
| Cr | 30 - 50 |
| Cd | 15 - 20 |
| Ag | 15 - 20 |
| Sn | 30 - 50 |
| Sb | 30 - 50 |
| Ba | 150 - 200 |
| Pb | 10 - 15 |
| As | 7 - 10 |
| Hg | 10 - 15 |
| Tl | 10 - 15 |
| Se | 7 - 10 |
| Cu | 15 - 20 |
| Ni | 20 - 25 |
| Zn | 15 - 20 |

Limits of Detection shown are interference-free, for 1-2 minute tests, in sample matrices ranging from SiO2 to 5% Fe content. Actual limits of detection depend upon specific sample types, and presence of interfering elements.



Innov-X manufactures the leading handheld XRF for analysis of alloys, RoHS compliance, environmental applications and many general materials analysis. It is the most portable, rugged handheld XRF available with nearly 5,000 installed worldwide. It is available with a removable PDA, or for ultra rugged applications, totally sealed internal electronics. The system may be optionally equipped with internal vacuum (Model LZX to include Al, Si, Mg analysis) or an internal camera + collimator for photo-documentation of samples and smaller spot analysis, predominately for RoHS compliance applications. Both systems run on Windows operating system.

Handheld XRF Options and Accessories

Innov-X Handheld XRF analyzers have a variety of options and accessories including bar code reading, wireless data transfer and GPS capability. There is real-time access to results, audit trails, QC data and more for you and your clients. This obviously enhances the Chain of Custody of your site samples. Of course, the multi-language option is a real benefit in the international world of regulatory affairs. And there are a variety of other accessories that make your job easier – holsters, wrist bands, soil foot, bench-top stand, battery back up packs and more.



World Power Kit



Field Side-Holster



Soil Foot



Bench-Top Stand



Blue-Tooth GPS



High-Capacity Battery



Bar Code Reader

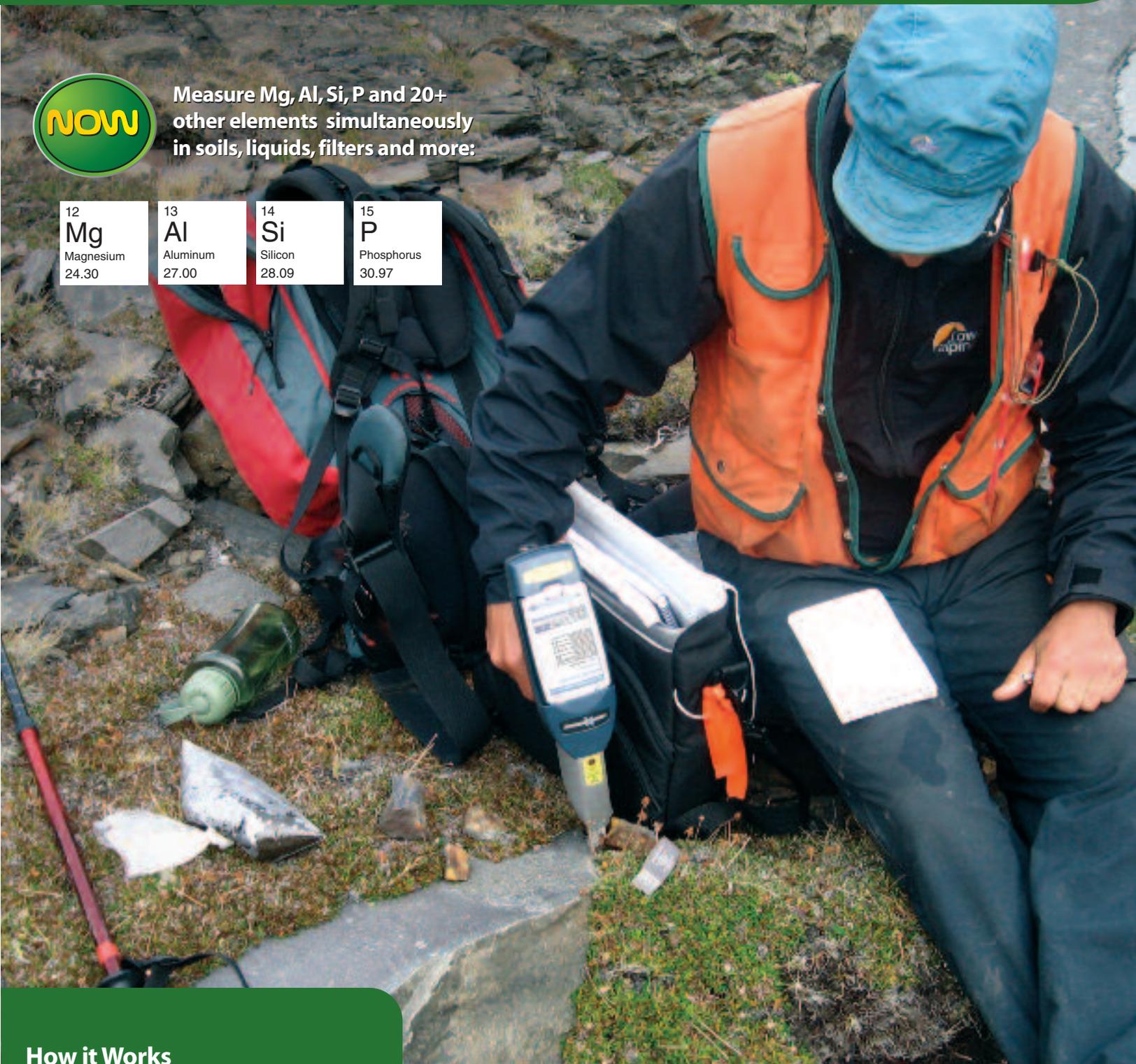
Revolutionary Internal Vacuum Technology for Light Element Analysis

Introducing the Innov-X LZX (patent pending)



Measure Mg, Al, Si, P and 20+ other elements simultaneously in soils, liquids, filters and more:

| | | | |
|---------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------|
| 12 Mg Magnesium 24.30 | 13 Al Aluminum 27.00 | 14 Si Silicon 28.09 | 15 P Phosphorus 30.97 |
|---------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------|



How it Works

An atmosphere-free zone is created between the sample and detector, uniquely designed for fast, repeatable measurements of the low-energy x-rays from these elements. **The operation is simple:**

- Just connect the miniature, battery-operated pump for 20 seconds, disconnect and begin testing
- Internal vacuum is maintained for hours, no need to carry a pump!

- On-screen monitor alerts you when pump is needed
- The LZX offers numerous advantages. There are no tanks of compressed He gas to lug around. Attached vacuum pumps are a thing of the past. Our internal vacuum chamber is engineered to handle daily environmental analysis and maintain vacuum for up to 6 hours. A small pump is standard to recharge the vacuum as needed.

Upgrade-ability and back-compatibility

Do you really need the vacuum option? As with all Innov-X XRF products, existing customers may add the LZX option at any time. Not sure? Start with the standard system, and add LZX at a later date, usually for just the price difference. LZX option is available with either the Sealed or Classic PDA model.

Innov-X Software Makes It Easy

Environmental Compliance Requirements can be demanding – **CCA, China RoHS, ELV, EPA, HUD, ISO, Lead-Free, NIOSH, OSHA, Priority Pollutants, RCRA, RoHS, WEEE** and more. Innov-X Systems Portable XRF Analyzer combines advanced portable tube-based XRF technology with comprehensive, universal data modeling to put superior and flexible environmental analysis in your hands. And, if your work is multi-national, Innov-X Systems Handheld XRF Analyzers are available in multiple languages.

Collecting data

You have choices for handheld XRF data collection: start/stop manually, preset test times, preset statistical certainty or relative standard deviation (RSD) of measurements, and you can even preset action levels for individual elements with statistical certainty.

Viewing data

You have choices for handheld XRF data display: individual concentrations with statistical error, pass/fail results, identification through matching libraries, and spectral plots with element identification and zoom-in viewing. You can even reevaluate stored data sets with added elements, new parameters, models or calibration curves.

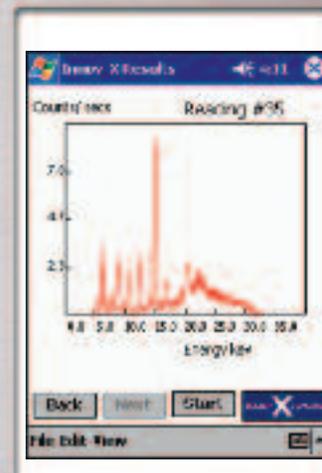
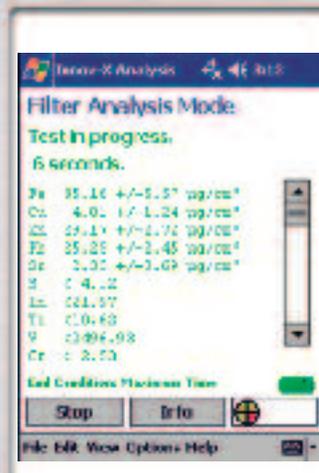
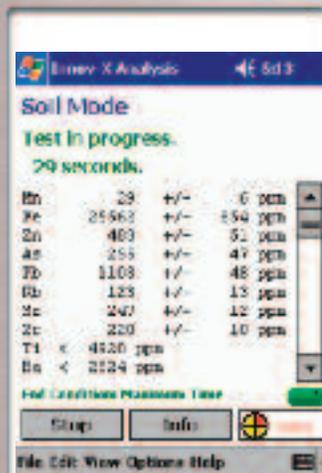
Analyzing data

Innov-X Handheld XRF Data Analysis Software is as comprehensive as Lab XRF software. Our advanced, universal XRF data analysis models give you superior environmental analysis where and when you need it.

- Compton Normalization: "Internal Standard" for quantitative analysis without site specific calibrations
- Fundamental Parameters: "Standardless" for samples with high and low concentrations of several elements
- Empirical Calibrations: "Calibration Curves" for user-generated calibration curves

Typical Innov-X Software Soil Mode Results screen

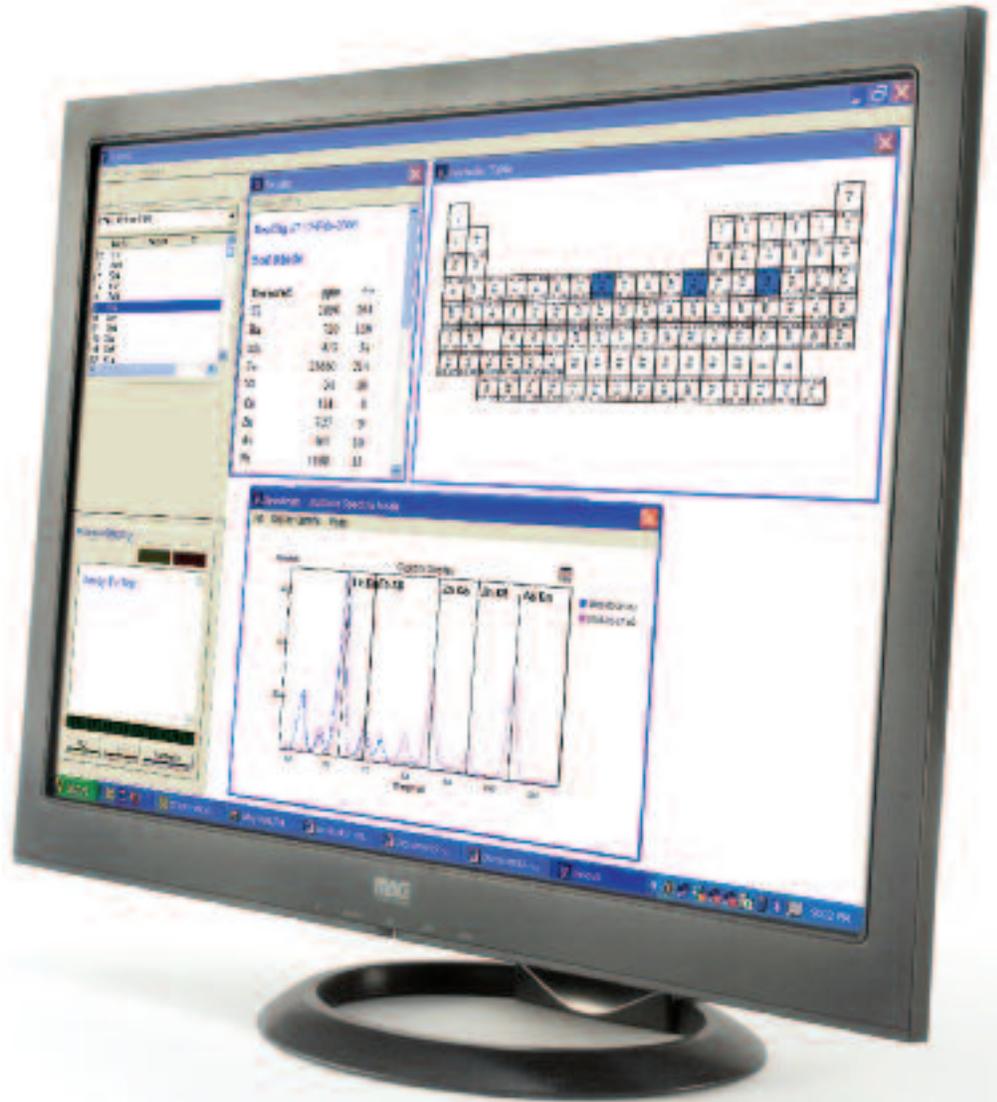
The standard Soil Mode Results screen displays the concentration (in ppm) and error in measurement for detected elements. You can also easily add new elements and calibrations, rerun stored tests with new parameters or models; and your data is stored in binary format – virtually impossible to alter. As with all Innov-X analytical modes, it is possible to view both test and spectra information.



Optional Innov-X Systems

PC software

Innov-X Systems also offers PC Software which allows operation of our handheld XRF analyzers from a desktop PC via a serial connection. Additionally, the remote display option allows data to be sent via Bluetooth from a handheld to a PC for display and further data manipulation. The PC software includes all functionalities available on the handheld platform: data collection, data display and data analysis choices. The PC Software includes additional functionalities – beyond what is available on the handheld platform. Added features include the ability to overlay multiple spectra, to print spectral overlays, and label peaks for all elements. You can click on a peak to bring up a peak identifier, or select an element from the periodic table to show the corresponding lines. The PC Software option is particularly beneficial to those who present their work in report format internally or through publication.



Optimize Enviro-chemical Surveys: Real-time GPS Mapping Systems & XRF Field Analysis



Map courtesy of Google



Don't wait! Get the facts on metal content and location where you are – get real-time answers to take real-time action. Whichever corner of the earth you work from, you can depend on Innov-X Portable XRF with GPS Mapping for quick and easy surveys.

Handheld XRF Applications

Each Innov-X Handheld XRF is equipped with a software and factory calibration package optimized specifically for its intended use – RoHS, Environmental, Mining, Alloy, Oil Analysis and more. Additional packages may be added anytime.

Need custom or unique calibrations? Innov-X Handheld XRF's also feature a full empirical package. Operators may develop their own calibration models for 25 or more elements, fit curves, customize background corrections, and more.



RoHS

The handheld delivers fast & simple RoHS compliance results for Cd, Pb, Hg, total Cr and Br. Features and advantages include:

- Easy point-and-shoot screening for a variety of samples: cables, connectors, PCB's, metal components, solders
- RoHS-Engine (patent pending) method to automatically optimize x-ray source and filtering for optimal detection limits – no operator input required!
- Superior cadmium LOD's of 20ppm or less in polymers and the best accuracy with RPD<10%
- Sn-based Solders: Confirm metal content for classification of Sn-whiskering challenges
- The optional internal camera + collimator configuration for photo-documentation of samples and smaller spot analysis, predominately for RoHS compliance applications

Mining

Put the Innov-X Handheld XRF in your tool belt! Handheld XRF is ideal for ores, tailings, concentrates, borings, cores, fragments, slurries, filters & films. This has completely revolutionized geochemical exploration for surface and underground mining. Site sampling need no longer be a limiting factor in a comprehensive mining investigation. Portable XRF liberates and empowers geochemical studies.

- Fast, ergonomically-friendly analysis of cores, bagged or prepped samples
- Check leaching baths, holding ponds and steel tank solutions
- Exploration, precious metals: 10-100ppm LOD for Au and Pt; 50-150ppm LOD for Ag and Pd
- Wear metals in oils for early detection of potential equipment component failures

Environmental

Whether screening according to EPA Method 6200 or performing quantitative analysis on prepared samples, simultaneously analyze 25 elements, including 8 RCRA Metals & Priority Pollutants, in seconds! Innov-X Handhelds put the power of XRF in your hands.

Take it to the field ... where it really counts.

- Analyze bagged or prepared soil samples in the field or in the lab. Complies with EPA Method 6200
- Wet sediments no problem! Software can apply calibration correction for water content to convert to dry-basis concentrations
- Detection limits (depending on matrix) <20ppm Cd, 10-100 ppm Cr, 1-20ppm As, Pb. Excellent LOD's and precision throughout the periodic table
- Air filters, or wipe tests – superior limits of detection. Complies with NIOSH 7702, OSHA Method ID-204
- Sulfur in fuels and oils for regulatory compliance

92
U
Uranium
238.03

17
Cl
Chlorine
35.45

50
Sn
Tin
118.71

51
Sb
Antimony
121.76

35
Br
Bromine
79.90



Scrap Sorting & Processing

Innov-X pioneered the first x-ray tube-based handheld for scrap metal sorting. Many scrap processors prefer the Innov-X because of the wide variety of alloys they can test, responsive customer service, and ease of isotope-free travel.

- Fast, fast sorting of high-temps, stainless, red metals, some common Al grades
- Use on tough separations: Ni/Co superalloys, 97-3 & Ta, exotic alloys
- Add precious metal analysis for catalysts, electronics scrap at any time
- Low alloy steels? Excellent sensitivity to low levels of Cr, Ni, Mo, V
- Excellent performance on turnings
- Use for non-metals too

Alloy Analysis

Innov-X XRF has become the preferred analyzer for petrochemical, production/power and fabrication industries. It is widely accepted for alloy verification in nearly every major refinery, the nuclear power industry, and by leading alloy producers and fabricators.

- Removable handle to test through insulation ports, other hard-to-reach areas
- Flow-accelerated Corrosion (FAC): the best handheld for low Cr measurements (down to 0.02% in carbon steels)
- Engineered for in service PMI, proven on surface temperatures up to 900°F
- Performs well on tough separations: Ni/Co superalloys, 97-3 & Ta, exotic alloys
- Sort common Al-grades 6061, 2024, 7050, 7075, 3003 and others. Ideal for sorting mixed Al-alloy into MLC loads
- Excellent sensitivity to low concentrations of Cr, Ni, Mo, V for many low-alloy applications
- Measure low Fe concentration in cobalt alloys for biomedical application

Other Applications:

Forensics • Catalysts • Powders General Materials Analysis

The power of Innov-X Portable XRF is in the variety of calibrations, ease of adding new elements for analysis, spectral viewing, and ease of use. Many applications require analysis where few if any known concentration standards exist for instrument calibration. Or in many cases, standards are proprietary to the customer. In these cases, the handheld offers a variety of user-calibration methods, peak fitting and background subtraction:

- User chooses from simple spectral acquisition, peak ID, to displayed intensities, and calibration curve fitting
- Add elements any time
- Inter-element effects: Fundamental Parameters, Compton Normalization, Empirical
- Calibration methods named, saved, and easily recalled later

Why should your next Handheld XRF Purchase be an Innov-X?

You're buying more than an environmental analyzer. You're buying a company that routinely delivers the next innovation in environmental analysis – a company with a proven record of delivering state-of-the-art XRF solutions, and customer-friendly upgrades and trade-in options.

Relentless innovation

Innov-X drives the advancement of portability and performance in XRF instrumentation, proven by our history of solutions:



- Handheld XRF with removable PDA: World's first and still most portable tube-based handheld XRF



- Ultra-rugged model with fully integrated, sealed electronics



- Vacuum Option– delivering Al, Si, Mg & P analysis in a handheld XRF without compressed helium gas

Ergonomic superiority

- The lightest weight, smallest, and best-balanced handheld XRF
- Bright, color display that is easy to read in any lighting conditions - even direct sunlight
- Touch trigger. No uncomfortable triggers to squeeze and hold. Comfortable "deadman" trigger also available
- Dual display: Angled front display plus rear display for easy viewing of test results



Customer appreciation

We don't take your business for granted after you've purchased an analyzer. You talk to a person when you call. You'll receive rapid response and regular updates to your requests. We offer extensive full service sites worldwide. In virtually every location on the planet you can be assured of well-trained service and application support.



Totally free of radioactive materials

Why deal with radioactive materials? Regulations are increasing, the liability is a headache, and travel restrictions are becoming ever more onerous. Our pioneering tube technology eliminates the risk and headaches of controlling radioactive materials:

- Reduce regulatory baggage – no wipe tests, minimal travel restrictions, easy to transport
- Eliminates the liability of isotope control, improper use, theft and disposal



The Innov-X XRF Family

Innov-X Continues the Portable XRF Revolution

What it comes down to is that the real world is waiting with the real answers. Take your Innov-X Portable XRF to the field where it really counts. Innov-X Portable XRF Analyzers go where you go – no matter the environment – flexibility and capability for the right answers where and when you need them!

X-50 Mobile XRF Analyzers

Innov-X takes Portable XRF up a Notch

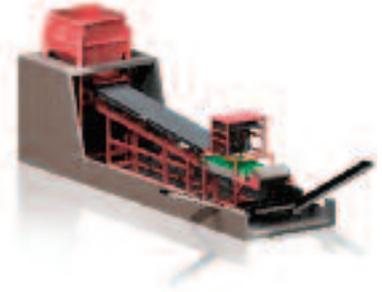
If you are looking for even higher power in portable XRF analysis, the Innov-X Mobile X-50 is your choice. Configured like a ruggedized tool case, with up to 25x the power of the handhelds, the X-50 is ideal for ores, tailings, concentrates, borings, cores, fragments, slurries, filters and films. The X-50's higher power delivers greatly improved performance – compared to handheld XRF – for many transition metals including Cd, Ag, Sn, Sb, precious metals and rare earths. It yields the power of bench top performance built for on-the-spot analysis.



QXR High Volume Material Sorting Systems

Applications include:

- Alloys – upgrading stainless, zorba, copper and other heavies
- Also high Cu or Zn aluminum
- Glass
- PVC, BFR in polymer streams
- “Meatball” extraction (diverting copper-bearing materials from ferrous streams)



For high throughput automated sorting, Innov-X offers the conveyor based QXR sorting systems. These systems operate at 20-100 tons/hour depending on the material, and are designed for continuous, high feed rate material identification and sorting.

SEA-Mate™ Oil Analyzer

In partnership with the world's largest shipping company A. P. Moller-Maersk, Innov-X has designed and manufactured the SEA-Mate™ line of XRF analyzers for analysis of oils, fuels and lubricants. These analyzers are designed for the marine and other heavy transportation industries and have been rigorously tested on board numerous Maersk vessels.



FOX-IQ Factory Online XRF Analyzers

A complete line of XRF-based process analyzers. Applications include continuous or discrete analysis of alloy tubing, liquid and slurry streams via our patent-pending flow cell technology.



| | | | | |
|-----------------------------------|----------------------------------|------------------------------------|-------------------------------------|------------------------------------|
| 16 S Sulfur 32.07 | 26 Fe Iron 55.85 | 29 Cu Copper 63.55 | 23 V Vanadium 50.94 | 28 Ni Nickel 58.69 |
|-----------------------------------|----------------------------------|------------------------------------|-------------------------------------|------------------------------------|



Come take an INNOQUEST for yourself
www.innovxsys.com/innnoquest

BASIC SPECIFICATIONS

- Weight:** 3 lbs. 4 oz. (1.6 kg)
- Excitation Source:** X-ray tube, Ag, W, Ta or Mo anode, 5-40 kV, 10-100 μ A, up to 6 filter positions
- SmartBeam:** Delivers industry-leading detection limits on critical elements Cr, V, Ti
- Detector:** High resolution Si PIN diode detector
- Temperature Range:** -10C to +50C
- Operation:** Trigger or Start/Stop Icon. One-touch trigger or "deadman" trigger option. Optional control from external PC.
- Power:** Li-ion batteries, rechargeable (charger included). Powers analyzer, PDA (IPDA model), charges batteries simultaneously. AC Adapter optional.
- Battery life:** 8 hours (typical duty cycle), 3 hrs continuous (tube on) operation.
- No. of Elements:** Standard package includes 20-25 elements depending upon application. Customer may specify additional elements, or use multiple suites of 25 elements each. Extra charge may be added depending upon elements and total additions. LZX Option includes Al, Si, Mg, P. Others possible.
- Display Screen:** Color, high resolution touchscreen. Variable brightness provides easy viewing in all ambient lighting conditions.
- Data Display:** Concentrations in ppm, spectra and/or peak intensities (count rate) or user-specified units, depending on software mode selected.
- Data storage:** Minimum 20,000 test results with spectra, upgradeable to >100,000 test results with upgrade to 1 Gb flash card. 128 Mb standard memory.
- Processor:** Intel 400 MHz StrongArm processor or equivalent for sealed unit.
- Operating System:** Microsoft Windows CE (portable system) or Windows (PC-based).
- Software Modes:** Alloy Analytical, Fast Verification, Pass/Fail. Optional RoHS, Process, Soil, Lead paint, others available.
- Vacuum Life:** 4-6 hours typical. Pump down requires 20 sec.

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