

# High Performance Mobile

XRF analysis system provides power, performance & mobility.

Innov-X introduces the Mobilab X50 portable XRF - a powerful complement to our pioneering Alpha Series™ handheld XRF.

It takes portable XRF analysis to new levels of performance – without compromising portability.

## Features

- Rugged miniature 50 kV tube.
- Up to 10 W of in-field tube power.
- Powerful Pentium-based PC with embedded XP and industrial touchscreen.
- Five electronically controlled primary beam filters for optimizable performance throughout the periodic table.



44 Ru Ruthenium 101.07	45 Rh Rhodium 102.9055	46 Pd Palladium 106.42	47 Ag Silver 107.8682	48 Cd Cadmium 112.411	54 Gd Gadolinium 157.25	49 In Indium 114.818	58 Ce Cerium	50 Sn Tin 118.71
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Operating at up to 50 times the power of handheld XRF plus a 50 kV tube voltage, the Mobilab X50 yields excellent performance throughout the periodic table of elements. The largest performance gains versus handheld XRF emerge for the precious metals, cadmium, tin, antimony, and the rare earth elements.

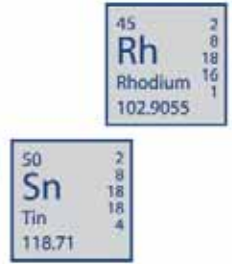
Performance gains are driven by multiple primary beam filtering and increased intensity of x-rays optimal for analyzing:

- **Precious metals:** Pd, Rh, Ru, Ag.
- **Elements:** Cd, Sn, Sb, In.
- **Rare Earths:** La, Ce, Gd, Eu.

Analyzes elements from Phosphorus (Z=15) to Uranium (Z=92). Simultaneous measurements of up to 30 elements.

# MobiLab X50

Portable XRF that delivers excellent performance throughout the periodic table.



## Applications

**RoHS/WEEE Compliance:** Go beyond handheld XRF. Test Cd and other elements to 10 ppm or lower, even in alloys. Ideal for both EU RoHS Directives and Packaging Directives.

**Environmental:** In-field analysis of soils, filter media, powders for Cd, Sn, Ba, Sb, Ag and other RCRA or EPA Priority Pollutant metals. Features improved detection limits (3X or more) for Cd, Ba, Sn, Sb and Ag over handheld XRF.

**Catalysts:** Rare earth elemental analysis.

**Mining/Ore Applications:** Better detection limits for key trace level elements like Au, Pt and others.

**Alloy Applications:** Lower limits of detection for many elements with the same, lightning-fast sorting of handheld XRF.



MobiLab X50 facilitates screening of components for compliance with RoHS/WEEE EU Directives for banned substances including Cd, Pb, Ag (total Cr and Br).

## Main Product Features

- 5-position primary beam filters for optimal performance across the periodic table
- High resolution Si PIN diode detector that delivers < 190 eV resolution (FWHM Mn K-alpha line) in a proven, field-rugged package.
- 50 kV, 200 µA x-ray tube for up to 50X power over handheld Alpha Series™.
- Powerful Pentium processor, embedded XP and sealed, field hardened color touchscreen.
- Sample platform with interlocked testing cover.
- AC Power or 2-3 hours Li-ion battery power.
- Rugged, injection molded, sealed carrying case.
- Total weight 8 lb.
- Dimensions (approx.) 12" x 13" x 8."
- Multiple analysis modes including fundamental parameters, Compton Normalization, Empirical calibration models, Spectral Matching.

XRF Systems: Handheld • Portable • Automated, On-Line • Microfocus • Custom.



Innov-X Systems, Inc., Worldwide Headquarters, Woburn, MA USA (781) 938-5005 (866) 4-innov-X www.innovxsys.com

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