

HANDHELD PORTABLE XRF ANALYZERS



Handheld Portable XRF Analyzers - ToronXRF™ Series

Handheld Portable XRF Analyzers | RoHS, Alloy, and Mineral Analysis

A handheld portable XRF analyzer identifies elemental composition on-site, without cutting a sample or sending it to a lab. The ToronXRF™ series brings this capability to quality-control teams, metallurgists, geologists, and recyclers who need answers in seconds rather than days. Each model shares the same energy dispersive X-ray fluorescence platform, silicon drift detector, and digital multi-channel processing engine, then applies calibration and software tuned to a specific analysis task.

The range covers three common buyer needs: hazardous substance screening for RoHS compliance, alloy grade identification for metals and PMI, and elemental analysis of minerals, ore, and soil. All three models deliver results in as little as one to two seconds, with detection sensitivity that approaches benchtop XRF systems in a handheld, field-ready housing.

Applications

Handheld portable XRF analyzers support elemental screening across manufacturing, metals, and geoscience industries.

- Electronics and Consumer Goods Manufacturing: screens components, packaging, and finished products for RoHS-restricted elements such as lead, cadmium, and mercury
- Metals Fabrication and Quality Control: confirms alloy grade and material composition on incoming stock, in-process parts, and finished assemblies
- Waste and Scrap Recycling: sorts electronic waste, scrap metal, and steel on-site to maximize recovery value and prevent material mixing
- Mineral Exploration and Mining: identifies ore deposits, supports grade control, and screens drill core and soil samples in the field
- Aerospace and Petrochemical Fabrication: performs positive material identification (PMI) on alloys used in high-stress and pressure-rated components
- Environmental and Site Monitoring: measures heavy metal content in soil around industrial and mining sites

ToronXRF™ Series Range

The ToronXRF™ series includes three models built on the same core XRF platform, each configured for a distinct analysis task.

Handheld XRF RoHS Analyzer (ToronXRF™ 3000R)

A hazardous-substance screening tool for electronics, toys, packaging, and consumer goods. It detects lead, cadmium, mercury, and other RoHS-restricted elements across 40 simultaneous elements, giving manufacturers and recyclers a fast pass/fail check before materials move downstream.

Handheld XRF Alloy Analyzer (ToronXRF™ 3000A)

An alloy grade identification tool for metals fabrication, aerospace, and scrap sorting. It confirms composition across precious metals, stainless and tool steel, nickel and cobalt alloys, titanium, and nonferrous alloys, supporting PMI programs and quality control without cutting the sample.

Handheld XRF Mineral Analyzer (ToronXRF™ 3000M)

A field analysis tool for geologists and mine operators, with built-in GPS tagging for exploration and geochemical mapping. It identifies ore composition, supports grade control, and screens soil for heavy metals directly at the outcrop or drill site.

How to Choose the Right Handheld Portable XRF Analyzer

- For electronics, toys, or packaging compliance: choose the RoHS Analyzer to screen for restricted elements before products ship.
- For metals fabrication, PMI, or scrap sorting: choose the Alloy Analyzer to confirm grade and composition without cutting the part.
- For mineral exploration, mining, or soil screening: choose the Mineral Analyzer for its GPS tagging and mining-specific calibration modes.

- For mixed applications across a facility: compare the shared specifications, then select the model whose calibration and software best match your primary use case.

Why Choose Torontech for Your Handheld Portable XRF Analyzer

Torontech supplies testing and measurement equipment to laboratories and manufacturers across North America and worldwide, backed by responsive technical support and calibration service. The Handheld Portable XRF Analyzer range is built for reliable, standards-driven results, so you can standardize on one supplier as your testing needs grow. Our team helps you match the right configuration to your samples, applicable standards, and throughput, then supports you through installation and beyond.

Request a Quote

Tell us whether you need RoHS screening, alloy identification, or mineral analysis, and we will recommend the right ToronXRF™ model for your application. [Contact the Torontech team](#) for pricing and lead times.



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