BLUE DRAGON TECHNOLOGY

ELEMENTAL ANALYSIS SERIES

ELEMENTX H1

HANDHELD X-RAY FLUORESCENCE

Portable Elemental Analysis for Mining, Minerals, and Field Verification

The Blue Dragon ElementX H1 is a portable handheld X-ray fluorescence spectrometer designed for rapid, non-destructive elemental analysis in the field. Built for mining, mineral exploration, ore verification, rare earth screening, and precious-metal applications, it delivers fast on-site results in a rugged handheld format.

Portable Field Analysis
Rapid, non-destructive testing directly at the sampling point

Mining & Mineral Modes
Suitable for ores, rare earth materials precious metals, and gold-bearing ores

Fast Digital Results
On-screen results, spectrum display, and exportable reports

WHY CHOOSE THE ELEMENTX H1

Handheld Portability
Lightweight instrument for on-site elemental screening

Rapid Results
Fast measurements for field decisions and preliminary verification

Non-Destructive
Analyze samples without damaging the material

Mg—U Element Range
Broad elemental coverage for diverse mining applications

Mining Focus
Designed for ore, rare earth, and mineral analysis workflows

Digital Reporting
Stores results and supports professional report output

APPLICATIONS

Mining Exploration
- Field screening
- Prospect evaluation

Ore Grade Control
- Rapid verification
- Incoming / outgoing material checks

Rare Earth Materials
- Site screening
- Material classification

Precious Metals
- Gold-bearing ore checks
- Preliminary field assessment

Commodity Inspection
- Trading inspection
- Warehouse verification

Geology & Field Surveys
- Portable elemental identification
- Site comparison work

HOW IT WORKS

1. **Aim Sample** — Place the analyzer on the sample are
2. **X-ray Excitation** — Primary X-rays excite the sample
3. **Fluorescence Response** — Elements emit characteristic X-ray signals
4. **Spectrum Analysis** — The detector and software interpret the spectrum
5. **Instant Result** — Element concentrations are displayed and stored

TECHNICAL SPECIFICATIONS

Measurement Principle	Energy-dispersive X-ray fluorescence (EDXRF)
Element Range	Mg to U
Application Focus	Mining, minerals, rare earths, precious metals
Detector	High-performance SDD detector
Analysis Methods	Fundamental Parameter (FP) + working curve algorithms
Display	Integrated color touchscreen
Data Output	Stored results with report export capability
Battery System	Rechargeable lithium batteries, hot-swappable
Protection Rating	IP54
Operating Languages	English / Chinese / customizable

BUILT FOR FIELD ELEMENTAL ANALYSIS

- Portable handheld design for site work
- Fast non-destructive elemental screening
- Broad suitability for mining and mineral applications
- Digital results with data storage and reporting
- Designed for field teams, laboratories, and inspectors

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