X-MET8000 GEO

HITACHI
Inspire the Next

MINING

The X-MET8000 Geo is a handheld X-ray fluorescence (XRF) analyser for geochemical analysis at various stages of the mining process. It's easy to use, and helps to dramatically reduce the need for laboratory analyses and their associated cost. With X-MET you can make the decisions immediately rather than waiting hours or even days for laboratory analysis.

Our revolutionaryBOOST™ technology delivers the low limits of detection needed to measure critical elements (e.g.pathfinders or penalty elements) accurately.

The X-MET's integrated GPS enables you to combine geolocation data with analyses results for flawless site mapping. It also works with Trimble® receivers for more accurate location data.

Why the X-MET8000 Geo is the perfect tool for your business

MEET CURRENT AND FUTURE TESTING REQUIREMENTS

Measure up to 40 elements with our mining calibration; quantify rare earth elements (REEs) such as La, Ce, Pr and Nd, and test a variety of sample types e.g. rocks, cores, cuttings and powders.

LOW COST OF OWNERSHIP

Withstands the harshest environments and weather conditions, the X-MET is IP54 compliant (equivalent to NEMA 3) for protection against dust and splash water, and tested to the MIL-STD-810G military standard for ruggedness.

EASE OF USE

Intuitive user interface with large icons that can be used with gloves on. Its customisable 4.3” colour touchscreen provides excellent results visibility even in direct sunlight. Only minimal training is needed.

COMFORTABLE

Light weight (1.5 kg), great ergonomics and 10–12 hour battery life ensures uninterrupted workflow and minimum fatigue.

ADVANCED DATA MANAGEMENT

Download results and reports directly to a USB stick, PC or a network share using WiFi in CSV format or tamper-proof PDF.

You can share the results on-the-go with our ExTOPE Connect mobile app and our cloud service enables you to export results securely in real-time with photographs, notes and GPS coordinates. You can even manage results from a whole fleet of X-METs with a single account.

Adding value throughout the mining process

EXPLORATION AND MINE MAPPING

Screen a wide range of elements (Mg to U) fast. Detection limits down to ppm level and rapid analysis provided by the BOOST™ technology ensures that you can identify all critical elements on-site, facilitating decision-making.

ON-SITE EXCAVATION CONTROL

Save time and money: reduce the number of samples sent to the lab for selective mining and production planning. Identify the boundaries of ore reserves and minimise the need to excavate waste rock.

GRADE CONTROL

Monitor the concentrations of key elements in ore, and identify penalty elements accurately with little or no sample preparation.

PROCESS MONITORING

Take the X-MET from place to place to test stockpiles, feeds, concentrates, tailings, etc. and make process adjustment decisions quickly.

ENVIRONMENTAL MANAGEMENT

Test mine-waste rock and tailings for potential impact on the environment and waste management planning, and monitor hazardous elements down to ppm levels.

AN OPTION TO SUIT YOUR NEEDS

We offer two different models to provide you with a cost-effective solution.

	X-MET8000 Optimum Geo	X-MET8000 Expert Geo
Description	Rapid and reliable measurement of various geochemical samples and concentrates.	Ultimate performance for measuring variety of geochemical samples including REEs, light elements and pathfinders.
X-ray tube	45kV	50 kV
X-ray tube filters	6-position filter wheel	
Detector	10mm² SDD with BOOST(TM) technology	25mm² large area SDD with BOOST(TM) technology
Element range	Mg – U	
Rare Earth Elements (REEs)	No	Yes
IP54 and MIL-STD-810G	Yes	Yes
Weight (with battery)	1.5 kg	1.5 kg
Battery life	10 – 12 hours	10 – 12 hours
Protection against detector window damage	Shield window	Prolene window
Calibrations	Standardless with light elements.	Standardless with light elements.

HARDWARE AND SOFTWARE OPTIONS

FEATURE	X-MET8000 Optimum Geo	X-MET8000 Expert Geo
Bluetooth	Included	Included
WiFi	Included	Included
Integrated camera	Optional	Included
Small-spot collimator	Not available	Optional
Report generator	Included	Included
ExTOPE Connect cloud connectivity and mobile phone app	Yes	Yes
Calibrations		Standardless REE calibration

Our Service

Our global network of service hubs offers a full range of technical support to keep you up and running.

- **Telephone help-desks**
  For a fast response to your problem.
- **Online diagnostics**
  In-depth support over the internet.
- **Rental instruments**
  To keep you working if your analyser is not.
- **Recertification and maintenance**
  Ensures your analyser produces the right result year after year.
- **Training**
  Understand your analyser and its features.
- **Extended warranties**
  Avoid unplanned costs.
- **Consumables and accessories**
  From spare batteries to benchtop stands.
- **Repairs**
  Fast and efficient turnaround.

WHAT NEXT?

Contact one of our experts today at **contact@hitachi-hightech.com** to arrange a demo.

MORE INFORMATION

To find out more about the X-MET8000 Expert Geo analyser, visit **www.hitachi-hightech.com/hha**

Other products

We have been providing industrial analysis products for over 45 years.

- **X-Supreme:** benchtop XRF analyser for process and quality control.

Browse our full range of products online at
www.hitachi-hightech.com/hha

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