

# X-MET8000

EXPERT GEO

**HITACHI**  
Inspire the Next



MINING



The X-MET8000 Expert Geo is an X-ray fluorescence (XRF) analyzer for geochemical analysis at various stages of the mining process. It's portable, easy to use and helps to significantly reduce the need for laboratory analyses and their associated cost.

Our large area silicon-drift detector (SDD) and revolutionary BOOST™ technology provide up to 10 times the sensitivity of other handheld XRF models. This 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 Expert 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. A blank and certified mining check samples are provided to ensure measurement traceability and accuracy.



## LOW COST OF OWNERSHIP

Withstands the harshest environments and weather conditions, X-MET is IP54 compliant (equivalent to NEMA 3) for protection against dust and 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 customizable 4.3" color touchscreen provides excellent results visibility even in direct sunlight. Only minimal training is needed.



## ADVANCED DATA MANAGEMENT

Store up to 100,000 results on the analyzer, download them to a USB stick or PC in CSV format or tamper-proof PDF. Print results on-site on a portable Bluetooth printer and attach them to sample bags to avoid mix-ups.

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



## COMFORTABLE

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

# 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 ensure that you can identify all critical elements on-site, facilitating decision-making.

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## 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 minimize the need to excavate waste rock.

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## GRADE CONTROL

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

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## PROCESS MONITORING

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

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## 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.





# 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 analyzer is not.



## Recertification and maintenance

Ensures your analyzer produces the right result year after year.



## Training

Understand your analyzer 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-as.com](mailto:contact@hitachi-hightech-as.com) to arrange a demo.

## MORE INFORMATION

To find out more about the X-MET8000 Expert Geo analyzer, visit [www.hitachi-hightech.com/hha](http://www.hitachi-hightech.com/hha)



## Other products

We have been providing industrial analysis products for over 40 years.

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

Browse our full range of products online at [www.hitachi-hightech.com/hha](http://www.hitachi-hightech.com/hha)

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Science for  
a better tomorrow