X-MET 7000 Series

Handheld XRF Analysers to suit your analysis requirements

New look, new feel, new fast user interface, new reporting power

Robust / Easy to Use / Total Reliability
X-MET 7000 Series

The analytical solution for a wide range of industries

**Metal alloys composition and identification**
- Positive material identification (PMI)
- Flow accelerated corrosion (FAC) inspection
- Coating thickness measurement
- Precious metals jewellery
- Archeometry

**Environmental and compliance testing**
- Pollutants and toxic elements in soil
- Lead (Pb) in solder
- Hazardous chemicals (e.g. CCA) in treated wood
- Toxic elements in consumer products
- RoHS, ELV, WEEE compliance testing
Oxford Instruments – A brand you can trust

- Oxford Instruments has over 35 years experience in designing, manufacturing, selling and supporting reliable, cost-effective portable XRF analysers
- Thousands of X-MET handheld XRF analysers have been supplied globally providing reliable results for a wide range of applications

**Recycling**

- Scrap sorting, e.g. metals, plastics, electronic components
- Precious metals (Pt, Pd, Rh) in used catalytic converters

**Mining & minerals**

- Ore exploration and mine mapping
- Process monitoring
- On-site excavation control
- Concentrates and tailings

**X-ray fluorescence (XRF) method**

X-ray fluorescence (XRF) instruments work by exposing a sample to be measured to a beam of primary X-rays. The atoms of the sample absorb energy from the X-rays, become temporarily excited and then emit secondary X-rays. Each chemical element emits X-rays at a unique energy. By measuring the intensity and characteristic energy of the emitted X-rays, an XRF analyser can provide qualitative and quantitative analysis regarding the thickness and composition of the material being tested.

**Benefits of handheld XRF analysis:**

- Rapid analysis: results in seconds
- Ease of use: simple “point and shoot” operation
- Portability: take the analyser to the sample, not the other way round
- Non-destructive analysis
- No or minimal sample preparation
X-MET 7000 Series

Non-destructive testing

Ease of use

- Simple ‘point and shoot’ analysis
- Intuitive, icon-driven user interface
- Largest screen on the market (4.3”) for best visibility
- Large grade name display
- Customisable results screen, including pass/fail messages
Up to 10-12 hours battery life

Convenient, comfortable, non-slip handle grip

Built to last

- Impact-resistant housing with environmental sealing
- IP54 compliant (equivalent to NEMA 3) for superior protection against dust and water
- Rubber bumpers around screen, nose and battery for protection against shocks and to prevent slipping from uneven surfaces
Enhanced data download and reporting

- The X-MET stores up to 100,000 results (including spectra)
- Download results and reports directly to USB memory stick or to PC using Wifi or Bluetooth
- Create customised reports (CSV or PDF format)
- Secure PDF report format for ultimate data security
- Optional integrated camera for accurate sample positioning, image storage for future reference, and inclusion in reports. Option available on X-MET 7000 eXpress and X-MET 7500

Accurate and reliable trigger

Camera image

View saved image
Four configuration options

To suit your analysis needs

X-MET7000 Series: Which X-MET suits your needs?

<table>
<thead>
<tr>
<th></th>
<th>X-MET7000</th>
<th>X-MET7000 eXpress</th>
<th>X-MET7500</th>
<th>NEW X-MET7500 Mining Analyser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost effective tool</td>
<td>Cost effective tool for routine, simple applications, when light elements determination is not needed.</td>
<td>When extra speed, improved precision and lower limits of detection are required, without the need for the light elements analysis.</td>
<td>Highest performance for the widest variety of materials For maximum flexibility Light elements analysis, without the need for Helium purge or vacuum</td>
<td>Designed for mining and soil applications. With NEW large area SDD for ultra low detection limits. New software to report compounds and pseudo elements.</td>
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X-MET7000 Series specifications

<table>
<thead>
<tr>
<th></th>
<th>X-MET7000</th>
<th>X-MET7000 eXpress</th>
<th>X-MET7500</th>
<th>X-MET7500 Mining Analyser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>&lt; 1.8kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>9 cm (W) x 28 cm (L) x 27 cm (H)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X-ray tube</td>
<td>40 kV Rh target</td>
<td>40 kV Rh target</td>
<td>45 kV Rh target</td>
<td>45 kV Rh target</td>
</tr>
<tr>
<td>Detector type</td>
<td>Si-PIN diode</td>
<td>Silicon-drift detector (SDD)</td>
<td>Silicon-drift detector (SDD)</td>
<td>Large area SDD</td>
</tr>
<tr>
<td>Elemental range</td>
<td>K - U</td>
<td>K - U</td>
<td>Mg - U</td>
<td>Mg - U</td>
</tr>
<tr>
<td>Calibrations</td>
<td>Combination of semi-quantitative methods (FP) and quantitative, traceable empirical calibrations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample temperature</td>
<td>Up to 400°C</td>
<td>Up to 400°C</td>
<td>Up to 120°C</td>
<td>Up to 120°C</td>
</tr>
</tbody>
</table>
X-MET7000 Series accessories

To boost productivity even further

The X-MET7000 Series accessories include:

- Benchtop stand: turn the X-MET into a laboratory benchtop analyser in seconds. Ideal for measuring jewellery items, sample cups, fasteners, small objects etc.
- Light stand and radiation shield: to safely and easily measure small items in the field, or when long measurement times are required.
- Holster with belt: for hands-free on-site transportation and easy access to the analyser.
- Portable Bluetooth® printer: perfect solution when instant prints or handouts are required in the field.
- And much more: see our Accessories brochure to discover our full range.

OiService - worldwide service and support

Oxford Instruments Customer Service recognises there are many decisions to make when choosing the right product and company with which to partner. It is not just about superb instrument functionality or the rugged design of the analyser. The OiService teams are aware of the necessity to demonstrate our depth of knowledge, skills, experience and expertise with regard to supporting our customers.

Oxford Instruments offers a range of support packages and products that provide you with the level of service you require:

- Technical help desk support
- Extended warranty contracts
- Tailored service plan agreements
- World class training academy
- Genuine approved spare parts
- Consumable products Webshop
- Rental analyser scheme on certain products
- Service repair at OiService centre

Please ask about details of our comprehensive range of products or visit our website at: www.oxford-instruments.com/ia-customerservice

visit www.oxford-instruments.com/X-MET7000 for more information or email industrial@oxinst.com

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