

CEMENT / MINERAL & MINING APPLICATION

HANDHELD & COUNTERTOP XRF SPECTROMETER

- **Lighweight (1.5kg) & Weatherproof (IP54).**
- **Simple & Easy** - GPS/Mapping & Rugged Mobile Printer.
- **Detection of > 48 elements**, from Mg to U.
- **Light Element Analysis & Rare Earth Element (REE)** mineral exploration.
- **Factory calibration for Gypsum, Cement & Limestone.**
- **On-site Geochemical Analysis.**
- **CUBE™ SDD** - Superior count rates & resolution.
- **EasyCal™** - Comprehensive software for Customize Empirical Calibration for Matrix Match Analytical Performance.
- **In-situ Coefficient Correction Function** - Easily modify existing calibrations after data collection for immediate improves the analytical performance when needed during site work.



S1 Titan Handheld XRF
(Mg to U)



CTX CounterTop XRF Analyzer
(Mg to U)



| | | | |
|-----------|-------------|-----------|------|
| Limestone | | | |
| 62 | 01-16 13:42 | Time 19.0 | |
| Si | 99.34 | 0.24 | 0.06 |
| CaCO3 | 99.34 | 0.24 | 0.06 |
| SiO2 | 0.29 | 0.06 | 0.05 |
| Al2O3 | 0.29 | 0.05 | 0.01 |
| Fe2O3 | 0.08 | 0.01 | |



S1 Titan Mining
Application Note

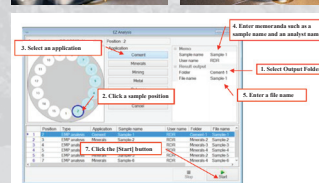
BENCHTOP ENERGY DISPERSIVE X-RAY FLUORESCENCE (EDXRF)

- Secondary targets and polarization (using close-couple Cartesian Geometry) essentially removes the background & create scattering **90° Monochromatic X-ray beam & Polarized Excitation.**
- The **special target (Si Target)** optimizes the measurement of Na & Mg. Maximum up to **5 Secondary Targets** cover the complete elemental range (Na-U) with optimized sensitivity.
- **Advance FP - Rigaku RPF-SQX:**
 - **Profile Fitting** routine automatically deconvolutes peaks in the spectrum.
 - A **Matching Library** can be easily built by the user with assayed standards of the actual material.
 - **Scattering FP** estimates the percentage of the sample that cannot be measured, element H-F. **Ready FP Templates (without additional cost).**
- Available analysis atmosphere - **Air, Helium & Vacuum.**
- NEX CG He Gas Consumption flushing is the lowest - 0.66 L/min
- **9 position autosampler spins samples** for superior results with inhomogeneous samples.

NEX CG



Rigaku
Applied Rigaku Technologies, Inc.



Scan QR Code
for more information

POLARIZING / PETROGRAPHY MICROSCOPE

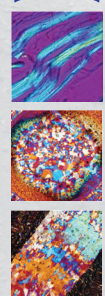
- **User friendly interface, Easy to use & the microstructure** of minerals can be analyze from micro- to nano-scale.
- Superior image quality of **thin sections with multiple illumination methods to produce high contrast color intensity, crisp images of structure & composition with no distortion.**
- **Equip with Multiphase Software** - Automatically segment & quantify optical microscopy images.
- **Utilizes Advanced Image Analysis; Grain Size Analysis, Multiphase Analysis, Porosity, etc.**
- **Quick & Easy report generation on site.**
- **PETROG** - Point-counting application designed to allow control of the digital stepping stage for a wide range of uses.



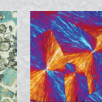
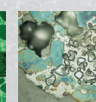
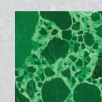
Primotech



Axioscope 5



PETROG



Scan QR Code
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MSI TECHNOLOGIES (MALAYSIA) SDN BHD

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CEMENT / MINERAL & MINING APPLICATION

COMBUSTION GAS ANALYZER - CARBON & SULFUR ANALYZER

- Ideal for **low running cost**, fast & precise result.
- **ZoneProtect™** - Reduces splattering.
- **Unique fully automatic cleaning system** with vacuum-free dust removal.
- **High efficiency combustion, integrated dust filter** which give cleaner environment & improved analytical precision.
- **Tool-free & Easy maintenance.**
- **Detection of CO₂ by NDIR detector.**
- **HighSense™ SO₂ Detection by UV LED.**
- **UV Transitions** - higher quantum efficiency than IR absorption (**higher sensitivity, lower noise**).
- **No interferences** for utmost stability & selectivity.
- **Unmatched lifetime** & modulation speed of LED.
- **Nafion®**- To continuously filter water vapour from ore sample.



MINERAL SAMPLE PREPARATION

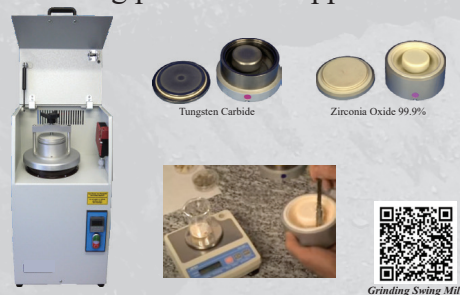
GAS/ELECTRIC FUSION

- Fully automatic.
- **Circular stirring motion** for faster sample disintegrate.
- **Clip-on heating modules** for instant maintenance.
- **Powerful fan units** - Rapid cold-to-cold.
- See-through design - keep visual of **ALL** steps of fusion process.
- Filtered air flow for ultimate bead purity.



GRINDING

- Compact, portable swing grinder, fully balanced for lab operation.
- Various 100ml grinding vessels for effective grinding of about 30ml sample material.
- Reproducible setting of milling time by digital timer
- Electronically locked working room during operation.
- Starting particle size approx 5mm.



MANUAL/FULLY PROGRAMMABLE HYDRAULIC PRESS

- Designed for preparation of **KBr discs** using **Evacuatable Pellet Dies**.
- **15 ton & 25 ton** Hydraulic Presses designed to handle wide variety of pressing applications.
- Used for preparation of thin polymer films.
- Polycarbonate safety guards.
- **Adjustable** upper bolster & pressure control valve.
- Vacuum ports.



SURVEY METER

- Self-contained, Compact, Simple to use.
- USB powered & connection to PC.
- High performance gamma-ray spectrometer.
- High sensitivity thermal neutron detector utilizes a state-of-the-art silicon photomultiplier (SiPM).
- High spectral resolution & High efficiency.
- Excellent gamma rejection.
- CZT solid state detector.



If you need any help or assistant in sample preparation methods, equipment, accessories, consumables and Standard Sample (Certified Reference Material - CRM), don't hesitate to contact us for more information.

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