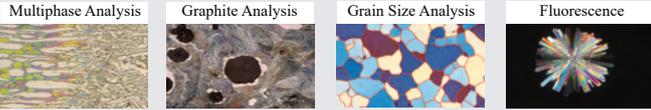




DISTRIBUTOR AND REPRESENTATIVE OF SCIENTIFIC EQUIPMENTS & INSTRUMENTATIONS

Idea Solutions for Elemental & Imaging Analysis

Material Optical Microscope

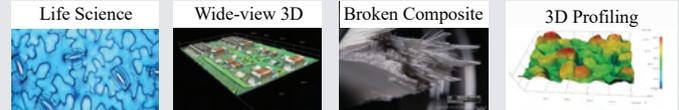


Observation, Measurement and Analysis:

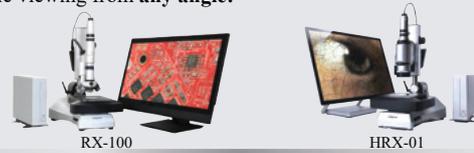
- Metallurgy** (grain size, multiphase, graphite).
- Failure Analysis** (in fiber/textiles, ceramic/polymer).
- Polarization and Fluorescence** (in fiber, polymer, cement, geology).
- Stereo, Upright, & Inverted Compound Microscope.**



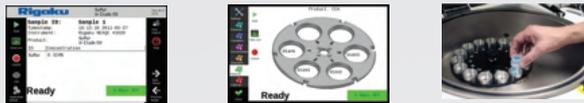
Digital Microscope



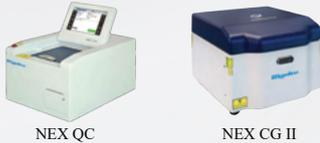
- Handheld, 2 in 1 (Stereo & Compound) & Easy to Use.**
- 2D and 3D Measurement** (3D Profiling/Point Height/Volume, Area).
- Up to **10,000x** digital magnification.
- Wide range of lens for many applications.
- Sample viewing from **any angle!**



Bench-top EDXRF Spectrometer



- ❖ Compact, powerful, easy to use. **Minimal** or no sample preparation. Non-Destructive Analysis.
- ❖ Simultaneous Multi-Element Qualitative & Quantitative Analysis (results in seconds!!).
- ❖ Can be used on **wide range** of sample types including solids, liquids, powders, pastes, film.
- ❖ Polarized Excitation EDXRF.
- ❖ Elemental range **Na to U** in Periodic Table.
- ❖ Powerful Fundamental Parameters (FP) Method.



Gas Analyzer

(Low Operation Cost, Fast Maintenance In Minutes)

- G4 PHOENIX:** Determination of Diffusible Hydrogen according to ISO 3690 & AWS A4.3 of **Weld Seams Sample & High Strength Steel Alloy.**
- G6 LEONARDO & G8 GALILEO:** Determination of Oxygen, Nitrogen & Hydrogen in Solid Materials for Iron, Steels, Alloys, **Minerals, Ceramics & Ores.**



- G4 ICARUS SERIES 2:** Carbon and Sulfur (CS) analyzer with high frequency furnace for application of **Iron, Steel, Al, Cu, Ti & Zr Alloy, Ores, Minerals, Ceramics, Catalyst.**



Bench-top & High-End Stationary Spark Spectrometer (OES)



- Q Ideal instruments for all types of metal
 - Iron & Steel Alloy (with traces).
 - Nitrogen in Steel.
 - Fe, Al, Cu, Ni, Co, Mg, Pb, Sn, Ti, Zn Alloys (with traces).
 - Oxygen in Pure Copper.

Q Complete range from ppm to percentage levels.



Handheld XRF Spectrometer (Tracer 5)

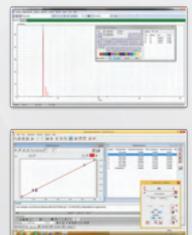


For Methods Development, Research & Complex Materials.

Focused Application Available On:

- Art Authentication & Conservation.
- Archaeological (**Elemental Analysis**).
- Advanced Scientific Research.
- Calibration (Obsidian, Mud rock, Ancient Cu Alloy).

Customized calibration!!



MSI TECHNOLOGIES (MALAYSIA) SDN BHD

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DISTRIBUTOR AND REPRESENTATIVE OF SCIENTIFIC EQUIPMENTS & INSTRUMENTATIONS

Idea Solutions for Elemental & Imaging Analysis

Handheld XRF & CounterTop XRF Spectrometer (Bruker S1 Titan & CTX)



S1 TITAN



CTX COUNTERTOP



- ☛ Graphene SDD Detector.
- ☛ SMART GRADE.
- ☛ Only 1.5kg with battery.

- ☛ Various type of materials, including light elements: **Mg, Al, Si, P, S.**
- ☛ Fast Alloy ID (1-3 sec for standard alloy).
- ☛ Ultimate defense of detector = **TITAN Detector Shield (Patented).**
- ☛ **Applications:** Alloys, RoHS, Precious Metal, Food, Cement, Mining.
- ☛ **Marine Pollution Sulfur** in Fuel Inspections.



Scan the QR Code for **FREE Alloy App!**

Rigaku Benchtop ED-XRF



NEX QC



NEX DE



NEX CG II

- ☛ Petrochemical Application
 - ☛ Sulfur in Oil (ASTM D4294, ASTM D7220, ISO 8745, ISO 20847, ISO 13031)
 - ☛ Chlorine in Crude Oil (ASTM D4929)
 - ☛ Lube Oil (ASTM D6481, ASTM D7751)
 - ☛ Lead in Gasoline (ASTM D5059)
- ☛ Cement (ASTM C114)
- ☛ Cl, Pb, & Metals in Refuse Derived Fuel (RDF)
- ☛ Silicone on Paper/Clay Coated Paper/Plastic



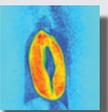
Time Domain NMR / MRI & 3D Imaging



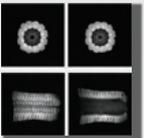
EDUMR



PQ001-SFC



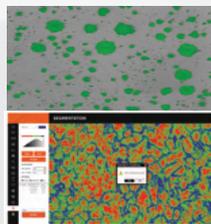
- ☛ **Educational Application:**
Teach students the **principles of MRI.** Range of diverse sequences, different magnetic resonance signals, K spatial distribution & the impact of different levels of image contrast.



- ☛ **Industrial Application:**
Determination of Solid Fat Content (SFC), Spin Finish content of textile fiber, Oil & Moisture Content in agriculture areas, materials, Exploration & Development of low permeability oil field & CBM.

Other Instruments

- ☛ On site metallography
- ☛ Portable microscope
- ☛ Scanning Electron Microscope (SEM)
- ☛ **Image Analyzer** for Microscope
- ☛ Petrography
- ☛ CMM Machine
- ☛ **WDXRF and XRD**
- ☛ **Handheld Raman Spectrometer**
- ☛ **Sample Preparation** (OES, XRF, Microscope)
- ☛ **Fusion Bead Machine**



Consumables, Standard, Calibration & Application Training Services

XRF Flux, Sample Cups, XRF Thin Films, Certified Reference Material, Reference Material, SUS, Spectrometer Check Sample, etc.



Calibration, Preventive Maintenance & Training Services



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