Hong Kong NTI Limited

Leading Provider of Advanced Micro and Nano Measurement Instruments and Surface Technology Services

Products

More than 15 years of professional experience. We had an expert and professional experienced staff.

- Micro-Nano Fabrication
- Micro-Nano Characterization
- In - Situ Measurement
- Vibration Isolator
- Accessories (SPM/AFM/SEM/ X-Ray/TEM)

About Us

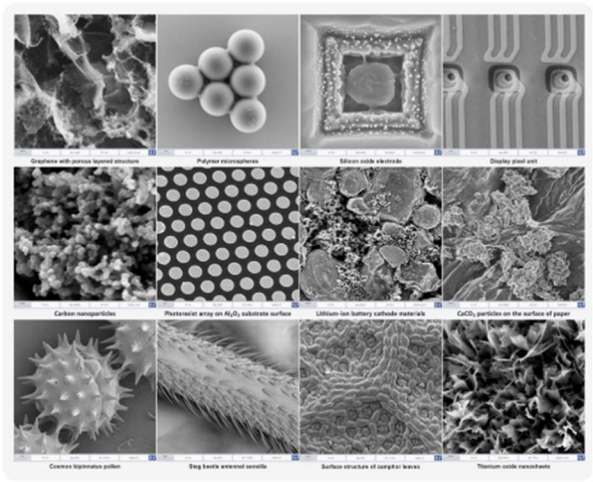
The company has experienced more than 15 Years.
Our company is built with experience friendliness and proficiency.
The company's employees have extensive experience gained over many years of fruitful work.

We provide advanced micro-nano measurement instruments and technology solutions to meet the diverse needs of our research and development clients.

More Solution:

- Equipment Training Services
- Micro-Nano Testing Services
- Application Services

Highly Recommended:

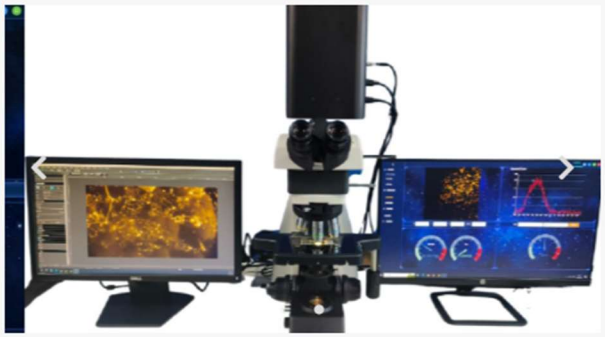


Field Emission Scanning Electron Microscope

Scanning electron microscope (SEM) uses Schottky field emission gun (FEG) technology. Advanced full-column accelerating technology integrated into the electron optical column ensures outstanding imaging performance at low accelerating voltages, enabling high-resolution imaging of various materials. Multiple detector systems efficiently collect diverse electron signals emitted from the sample for imaging, revealing microscopic morphology and structural information of the sample to the maximum extent

Specifications	Parameters
Resolution	1.0 nm @ 15 kV, 1.5 nm @ 1 kV
Acceleration voltage	0.02-30 kV
Magnification	1-2,000,000 X
Probe current	1 pA-20 nA
Image size	256*256-16k*16k pixels
Specimen chamber	inner diameter: 330 mm, height: 260 mm standard ports for EDS, EBSD,CL
Specimen stage	high-precision 5-axes automatic stage
Stage movement range	X= 125 mm, Y=125 mm, Z=50 mm, R=360° cont., T= -5 - 70°
Detection system	• ET detector • Inlens detector • BSD detector • STEM detector
Operation system	User friendly interface, ergonomic control panel design

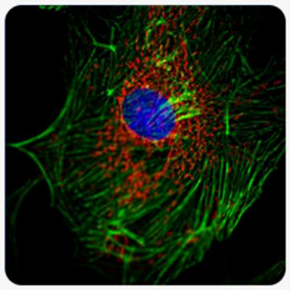
Special for Life Science:

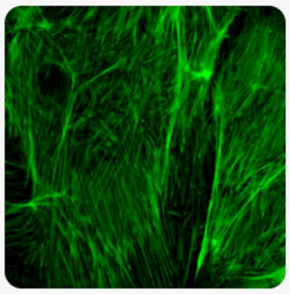


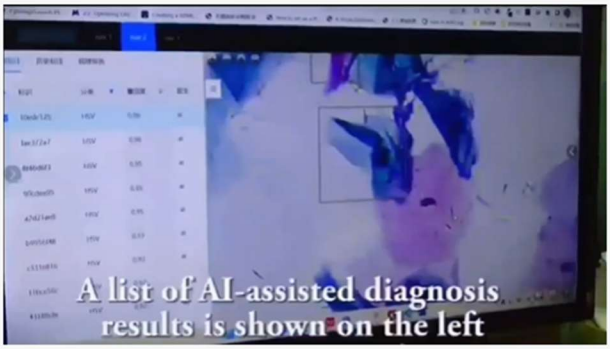
Hyperspectral Microscope System

The hyperspectral microscope system is an innovative technology that combines hyperspectral instruments and microscopes, with the function of both hyperspectral technology and microscopes. It can obtain high-resolution spectral information of samples in different wavelength ranges, as well as obtain morphological images of biological samples, achieving the combination of spectrum and image.

Its key advantages include: High Precision: Nanometer-level spectral resolution with wavelength coverage spanning UV, visible, and infrared regions. High Efficiency: High-speed detection and rapid data processing.







In Situ Capability: No need to share or move the measured object.
NonDestructive: Requires only necessary illumination without any physical contact or damage to the sample

Application Direction

- Cell biology:
  1. The microstructure of cells (organs, mitochondria, etc.)
  2. Live-cell imaging
  3. The biological processes of cells

- Nanobiology: Interactions between nanoparticles and cells
- Organoids and medication research
- Research on material surface and structure
- Pathology and light cutting structure
- Botany (including tobacco) research

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