JSM-6700 Field Emission Scanning Electron Microscope

Description:

The JSM-6700F is a high resolution, easy-to-operate scaning electron microscope, based on a new cold filed emission gun electron source and employing state-of-the-art computer control and imaging. A conical FE gun and semi-inlens objective generate high resolution images. High definition, flicker-free images are displayed at 1280*1024 pixels and can easily be viewed under normal room lightting, even at slow scan speeds. A mouse and menu GUI interface, running under Windows 7, provides a familiar control interface and high performance networking.

Specifications:

Features & Info sheet:

- Resolution: 1.0nm (at 15kV), 2.2nm (at 1kV)
- Magnification: 25 to 19,000 (LM mode), 100 to 650,000 (SEM mode)
- Accelerating voltage: 0.5 to 30kV
- Specimen illumination current: 10^-13A to 2*10^-9A
- Electron gun: cold cathode field emission type
- Alignment: Electromagnetic deflection system
- Objective lens: Strongly excited conical lens
- Specimen chamber: Large chamber for 200mm specimen

Modes of Operation:

- 1. Secondery electron (SE) mode with two JEOL detectors: Lower SE detector + In-Lens detector with voltage filter.
- 2. Backscattered Electron (BSE) mode with a retractable solid state BSE JEOL detector.
- 3. Element Analysis mode: VANTAGE X-ray microanalysis system of THERMONORAN provides element identification, quantitative microanalysis and mapping down beryllium.