

Is “There an App for That?” (1) Take a Look at the New Portable Scanning Electron Microscopes

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Scanning Electron Microscopy plays a key role in the development of new products, failure analysis, forensic investigations as well as inspection and quality control. With this in mind, scanning electron microscopes (SEMs) have become an integral part of many laboratories and manufacturing centers. As nanotechnology and computing technology have grown, so have the capabilities of today’s SEMs. In addition to having features that allow for the analysis of many sample types it has become equally important that they be simple and fast to operate.

We would like to introduce a thoughtful new software design that makes for a whole new SEM experience. This innovative software interface incorporates Windows Touch gestures for intuitive and flexible operation. The user can operate the SEM completely with the touch screen and yet traditionalists do not have to give up operation by keyboard and mouse or even knob set control.

The software interface has the familiar look and feel of today’s eReaders or smart phones with a multi-touch screen interface. This new portable SEM puts all of the SEM “Apps” at the operator’s fingertips (2). The user can zoom in or out in magnification, move to different sample locations, control focus, brightness and contrast, etc. with a simple swipe. Changing operating parameters, performing EDS analysis or measuring features can be done with a tap on the PC or notebook touch screen. This new software interface adapts to a whole new generation of users.

These new portable SEMs offer features you’d only expect from a full size tungsten SEM. Not only high resolution, high magnification imaging but also flexibility in control for imaging almost any sample type. Change vacuum modes, detectors and even perform chemical analyses with an integrated silicon drift EDS detector.

The compact design, sits on wheels for easy setup or relocation for multiple labs or locations on a factory floor or school class rooms.

These portable SEMs can be a powerful asset to any lab such as: a mobile forensic lab, R&D center or final test and inspection. Take a look.

References

[1] Apple, Inc., Trademark Phrase

[2] JEOL USA, JSM-6010LA InTouchScope™ Product Page



FIG. 1. JSM-6010LA InTouchScope™ from JEOL