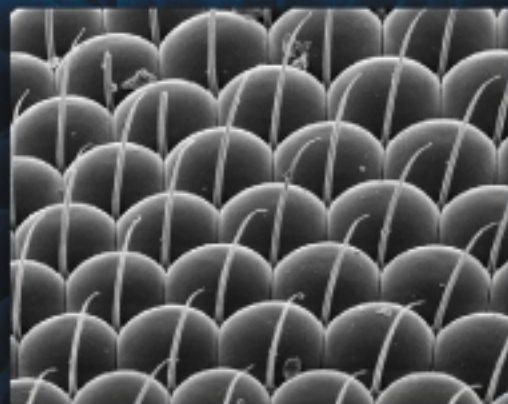


# NeoScope Benchtop SEM



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*The new benchtop scanning electron microscope*

- *As familiar to operate as a digital camera*
- *The high resolution and depth of field of an SEM*
- *No specimen coating or drying required*
- *Automatic and manual control*
- *Compact and easy to use*

## ***Expand your vision***

The NeoScope benchtop SEM economically complements your optical microscopes with resolution and depth of field only seen with electron microscopes. When you need to focus on details that exceed your current capabilities, the NeoScope takes you into new imaging territory.

## ***So simple to use, you'll be taking pictures in minutes***

You'll be trained and using the NeoScope in only 30 minutes after it's set up in your lab. Observation and imaging are simple with the sophisticated Graphical User Interface (GUI) and automated settings for biological and material samples. In only three minutes or less, you load the sample and have a digital image with outstanding focus and depth of field.

# NeoScope Benchtop SEM

## Add a new dimension

With the NeoScope benchtop SEM, the microscopist will experience a depth of field that is unmatched by light microscopy. The image quality is superb, from live imaging to image capture across the 10X-20,000X magnification range, without adjustment or changing lenses. A wide area of view makes it easy to find and correlate the imaging areas from the optical microscope.

## See fine details without SEM expertise

Basic operation of the NeoScope is automatic: auto focus, auto contrast and brightness, just like your point and shoot camera. You also have manual control if desired. Low vacuum operation allows you to directly observe all specimens without special preparation. Pre-stored parameter files (recipes) allow the user to quickly and automatically set up the NeoScope for viewing a wide variety of samples.

## Versatile and practical for a wide range of samples

For a wide range of samples from biological to materials, NeoScope has high vacuum and low vacuum modes, secondary electron and backscattered electron imaging, and three selectable accelerating voltages of 5, 10, and 15kV. The specimen stage accommodates samples up to 50mm thick. It's simple to obtain clear, crisp images of defects, foreign materials, surface blemishes, textiles, invertebrates, biological tissues, forensic evidence, or examine the compound eye of a fly. No special preparation of samples, i.e. coating or drying, is required.



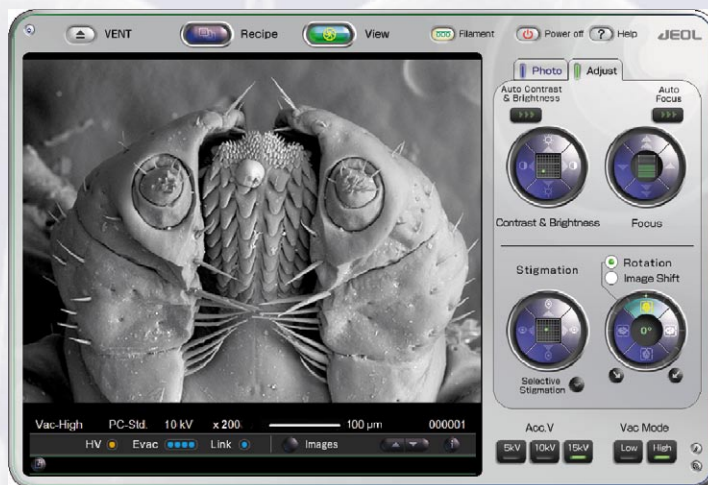
Specimen stage simplifies sample loading



Simple setup for observation and auto imaging - point and shoot!



Pre-stored parameter files (recipes) for typical samples



Selectable manual adjustment or automatic operation

## NeoScope Benchtop SEM Specifications

Magnification	10X to 20,000X
Observation Modes	High-vacuum and low vacuum modes
Electron Gun	Small electron gun with filament and Wehnelt integrated grid
Accelerating Voltages	15 kV, 10 kV, 5 kV (three-position switch)
Specimen Stage	Manual control for X and Y X: 35mm, Y: 35mm
Maximum Specimen Size	70mm diameter, 50mm thickness
Signal Detection	Secondary electrons, backscattered electrons
Display Data	Accel. voltage, magnification, m-bar, m-value, etc.
File Format	TIFF or JPEG
Operating System	Windows Vista
Automatic Functions	Focus, contrast, brightness
Configurations	Main unit, desktop computer, rotary pump
Dimensions (Main Unit)	(W) 492mm x (D) 458mm x (H) 434mm
Weight	63 kg (main unit); 11 kg (computer); 5 kg (rotary pump)
Power	Single phase AC 100 V (400 VA), 120 V (900 VA), or 200 V (900 VA) - fluctuation +10% or less - 50/60 Hz, D class grounding
Room Temperature	15 to 30°C
Humidity	70% or less



Nikon Instruments Inc. is a JEOL-authorized dealer for NeoScope in the USA and Canada.



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