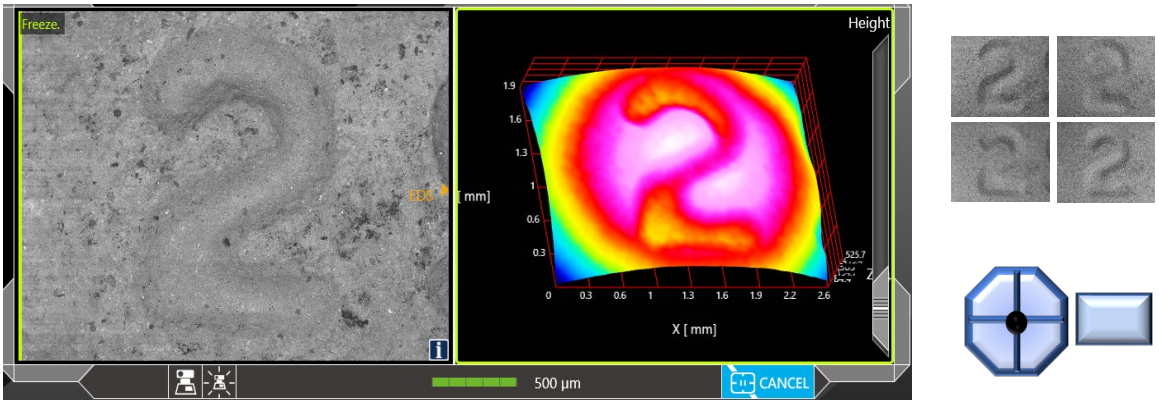
# *JCM-7000, NeoScope™ Benchtop SEM*

# *Live 3D*

**REAL-TIME 3D SURFACE RECONSTRUCTION WITH NEOSCOPE™**

SEM is a natural extension to viewing specimens with an optical microscope due in part to its inherent higher depth of field and ability to resolve smaller microstructures. Creating a 3-dimensional (3D) surface model can further enhance our understanding with specimens that have complex topographical features.

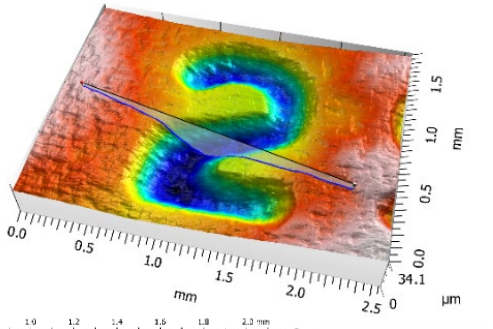
The JCM-7000 includes a high sensitivity, multi-segmented backscatter electron detector that allows for collection of multiple images simultaneously. These images are then combined to provide a 3D model of the surface in Real-Time as you navigate around the specimen. The Live 3D surface rendering can be tilted and rotated and the resulting 3D image output directly to a report.




*Live 3D Image - Pharmaceutical Tablet Surface*

With the addition of JEOL's Smile View™ Map software not only qualitative but also quantitative texture information can be obtained and much more.

| ISO 25178 | | |
|---|---|---|
| **Height Parameters** | | |
| Sq | 8.14 | µm |
| Ssk | -0.933 | |
| Sku | 2.76 | |
| Sp | 12.6 | µm |
| Sv | 21.5 | µm |
| Sz | 34.1 | µm |
| Sa | 6.68 | µm |




Use Smile View™ Map to:

- Improve image quality
- Colorize SEM images
- Apply texture analysis to the 3D surface models
- Stitch images
- Correlate with data collected from other instruments or detectors