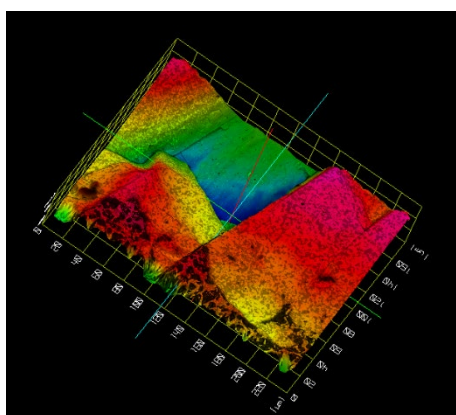


SEM - 3D Surface Reconstruction

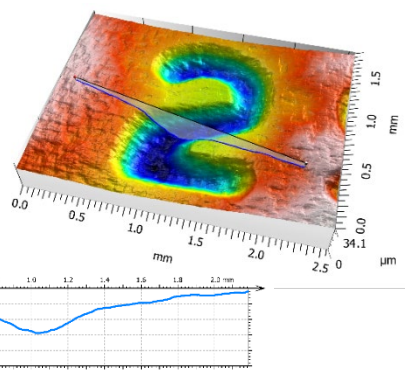
SEM is an indispensable tool for studying the microstructure of a wide variety of materials. The images generated are inherently a 2 dimensional representation of the sample surface. Unlocking the 3rd dimension by reconstructing a 3D model from multiple SEM images can enhance our understanding of complex microstructure. This 3D view is often more intuitive and surface metrology characteristics can be calculated.

The table below highlights two common software options for 3D Surface Reconstruction in SEM offered by JEOL.



Fracture Surface - 3D Sight Software

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



Pharmaceutical Tablet Surface - Smile View™ Map Software

	3D Sight P/N: MP-45030TDI	Smile View™ Map P/N: DS-JE-SVM
Constructs 3D model from	2 Images	1, 2 or 4 Images
3D Color Intensity Maps	✓	✓
Anaglyph Image	✓	✓
Height Profile and measurement	✓	✓
Image Calibration	X	✓
Image Enhancement & Correction	X	✓
Geometric Analysis	X	✓
Surface Texture Analysis	X	✓
Colorization	X	✓
Colocalization (Correlation)	X	✓
Optional Modules:		
<ul style="list-style-type: none"> Particle Analysis Advanced Topography Advanced Profile Fourier and Wavelets 	X	✓