

SUBSAMPLING AND INPAINTING FOR ELECTRON MICROSCOPY

Up to 100x Faster, 100x Less Data and
100x Less Dose

KEY BENEFITS



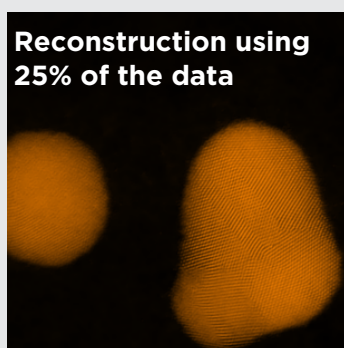
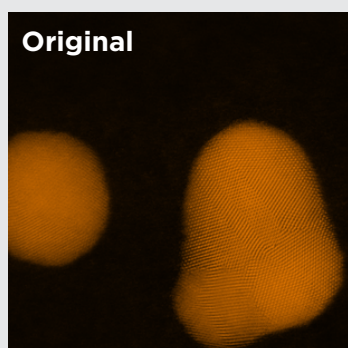
Up to 100x faster
Analyse images in
real time, not
days/weeks/months.



Up to 100x less dose
Image at previously
unachievable low doses to
preserve sample integrity.

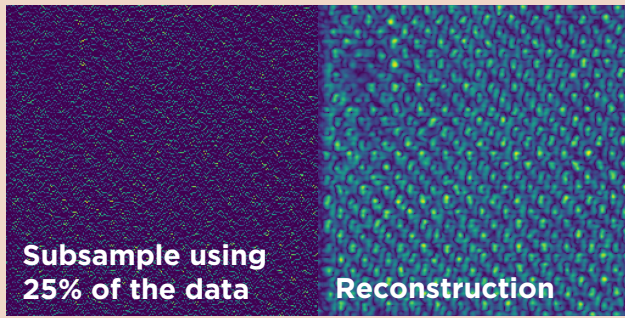


Up to 100x less data
Save time and budget
storing and handling
the data required.



senseai
VISION

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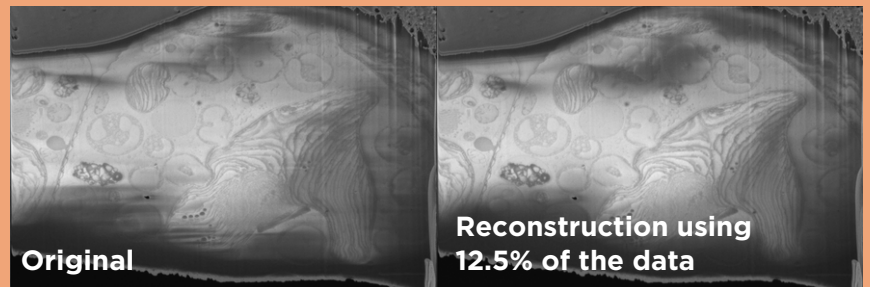


4D-STEM

Now microscopists the world over, using their existing hardware, can perform 4D-STEM research they simply couldn't do before. It's the pinnacle of electron microscopy but now simplified and accessible by all.

SenseAI subsampling reduces charging effects and beam damage for regular block material, resin embedded and cryo-preserved samples. Data sizes are reduced to 10% or less, making experiments and post-processing quicker, cheaper and more successful.

VOLUME SEM



"We're able to see 4D-STEM images live and make adjustments on the fly. Subsampling using just 10% or less of the original data means we can easily handle all of the required information using a lot less storage and budget."

Giuseppe Nicotra, Head of Sub-Ångstrom Electron Microscope LAB at CNR-IMM

"With SenseAI, I'm essentially working four or five times faster than I can otherwise. So the time required to complete an entire volume is significantly reduced, which is less stressful on the instrument, less stressful on the operator, and generates much higher success rates."

Professor Roland Fleck, Director of Centre for Ultrastructural Imaging, Kings College London



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