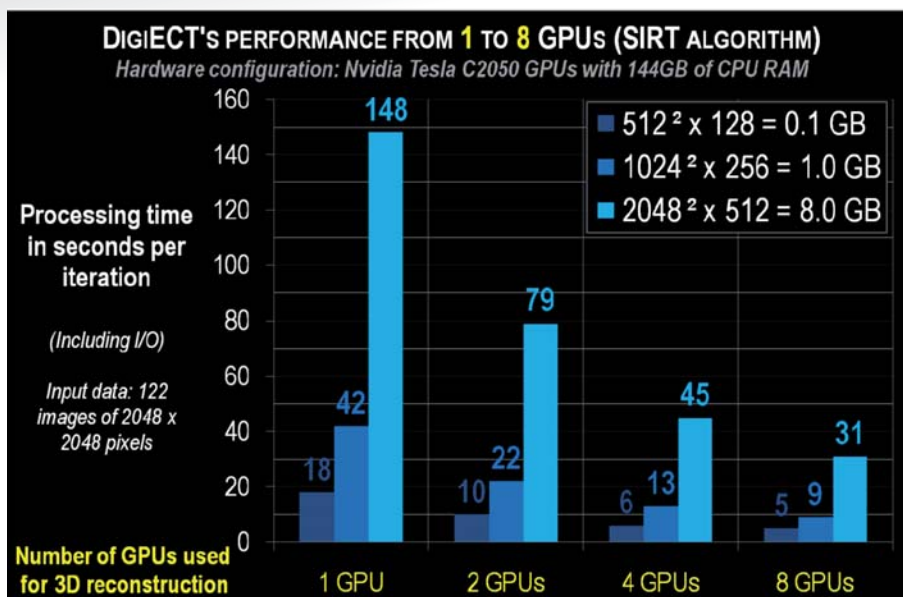


Quick, automated alignment in 3D of raw tilt-series without fiducials
 High-speed, high resolution 3D reconstructions based on iterative algorithms
 User-friendly, expert 3D/2D visualisation technologies

Get most of your Transmission Electron Microscope for 3D!

Digisens Electron Tomography Software Suite is dedicated to your highest needs in 3D-nanocharacterization in Life and Materials Sciences. It's plug and play with any 3D TEM.



➔ Key Software Benefits

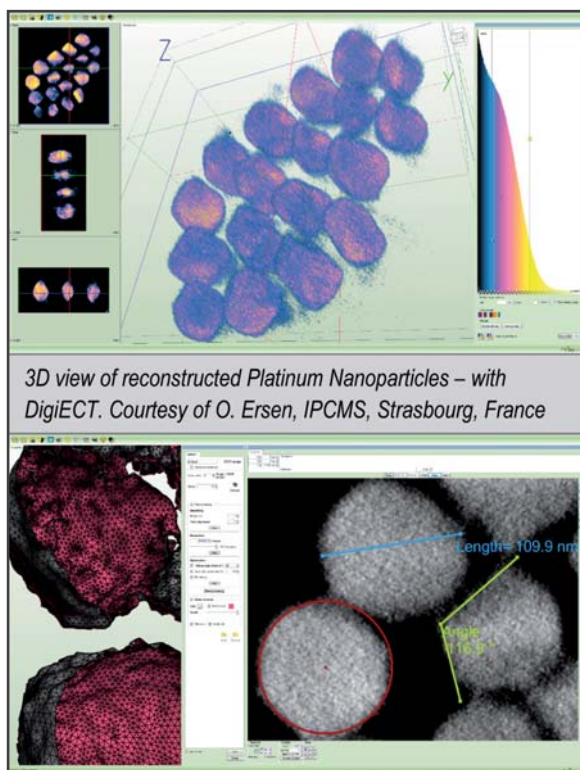
Very large data processing up to 4096² x 1024 voxels (64 GB) at highest speeds on the market

Achieve superior image quality and with a lowered electron beam dose by taking advantage of powerful iterative algorithms (SART, SIRT, OS-SART)

Supported modes: BF-TEM, BF-S/TEM, DF-S/TEM, EFTEM in Life and Materials Sciences

User-friendly environment and expert options for advanced users

Outstanding support, maintenance and training from an innovation-driven company, striving for customer satisfaction



Request your demo !

digisens@digisens.fr
 +33 479 658 916

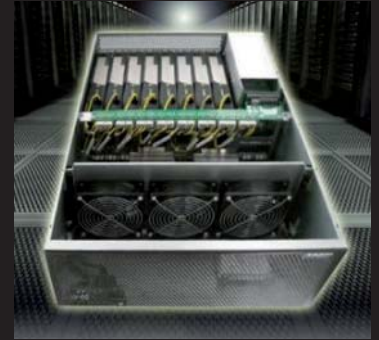
➔ Detailed software features

Automated Raw Data 3D Alignment Spend only minutes to align your images rather than half a day manually with state-of-the-art Digisens technology using the GPU

- No fiducials needed: avoid human bias by letting the algorithm choose dynamically the best markers to track
- Numerical determination in 3D of the tilt axis for improved corrections
- Supported input formats: MRC, DM3 and several image formats (DICOM, RAW, TIFF, BMP, PNG...)

High Speed 3D Reconstruction Module based on iterative algorithms (SART, SIRT, OS-SART) using one or several GPU boards (multi GPUs) for computation

- Superior 3D reconstruction quality compared to classical methods based on Weighted Back Projection (WBP)
- Better cope with the missing wedge, get enhanced results with low-contrast and low S/N ratio data, reconstruct high-quality volumes with less input images, add prior data knowledge during the process
- High 3D reconstruction speed for high quality, because Digisens experts recommends at least 30 iterations
- Build your own iterative algorithms by adjusting the convergence speed adapted to your own data
- Unique GPU-accelerated image preprocessings and volume postprocessings



3D & 2D Visualisation with DIGIOBS User-friendly Digisens in-house visualisation module

- Ergonomic and intuitive interface, latest visualisation and rendering technologies in 3D and 2D
- Seamless export in various file formats to study data in expert analysis software

Full support, maintenance and updates included for one year

- ✓ Supported operating systems: Microsoft Windows XP or 7 64 bits on desktop configurations, Linux for GPU clusters
- ✓ Supported GPU hardware: Nvidia Tesla and Quadro series recommended
- ✓ Totally compliant with multi-GPU and/or GPU clusters for High-Performance Computing (HPC)
- ✓ Startup training provided without additional costs

➔ Premium features

Multi GPUs Sophisticated software feature to benefit from unparalleled 3D reconstruction speeds for highly demanding applications: processing of huge data amounts i.e. dozens or hundreds of Gigabytes of input and output data

- From 2 up to 8 GPU boards for simultaneous use on a desktop computer, even more boards with GPU clusters

DigiMEAS Toolkit for informative measurements, oriented slices extraction, advanced surface rendering and analysis

- Angle, circle and segment measurements; visualisation and export of oriented cut-planes
- Certified mesh export (triangles with perfect shapes, no missing ones) in STL, Point Clouds and OBJ



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