DigiSTAR
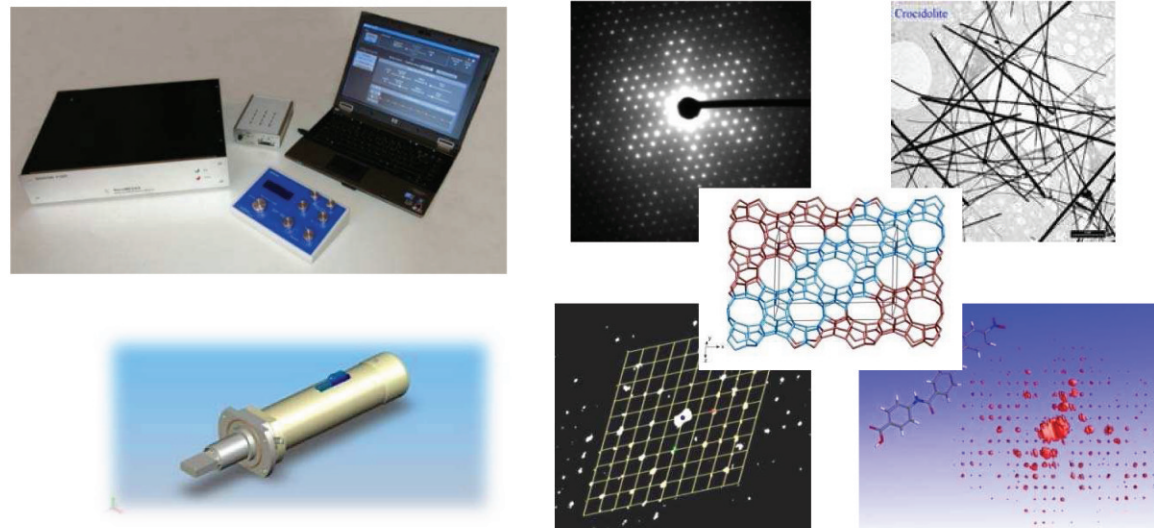
Advanced TEM electron diffraction tools for nanocrystal structure determination

- the DigiSTAR digital precession unit is easily retrofit to any TEM 100- 300 KV (LaB6 /W - FEG) , alignments are stored in memory

- ab-initio structure determination of any nanostructure using exclusively electron diffraction intensities

- precession semi-angle variable from 0- 85 mrad (TEM dependent), spot distortion correction-compensation at high angles

- ab-initio structure determination for metal, minerals, ceramics, polymers, semiconductors and pharmaceuticals

- 3D cell reconstruction when used in combination with 3D diffraction tomography

- efficiently solve complex structures in combination with powder X-Ray diffraction

- easy symmetry determination for nanocrystals (space and point group)

- accurate stoichiometry refinement for nanostructures

NanoMEGAS
Advanced Tools for electron diffraction

EMPYREAN

The world of X-ray diffraction is no longer flat

0D

1D

2D

3D

The only XRD platform that does it all

- Powders
- Thin films
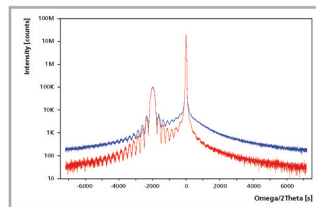- Nanomaterials
- Solid objects

The new Empyrean from PANalytical is truly innovative, with cutting-edge technology in every aspect. Empyrean brings the idea of the perfect XRD platform to life:

- The widest range of samples
- The highest data quality on every sample, no compromises
- Exceptional tube performance
- The highest performance goniometer
- 2nd generation PreFIX for optics and sample platforms
- PIXcel^{3D}: the only detector for 0D, 1D, 2D and even 3D applications
- Unmatched area detector dynamic range, linearity and resolution
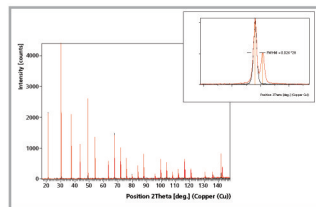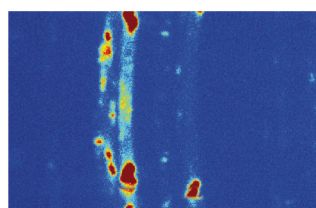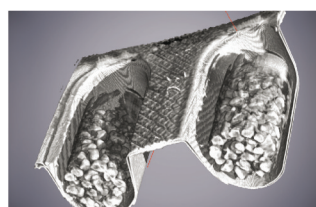- See inside your samples with the world's first 3D detector

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