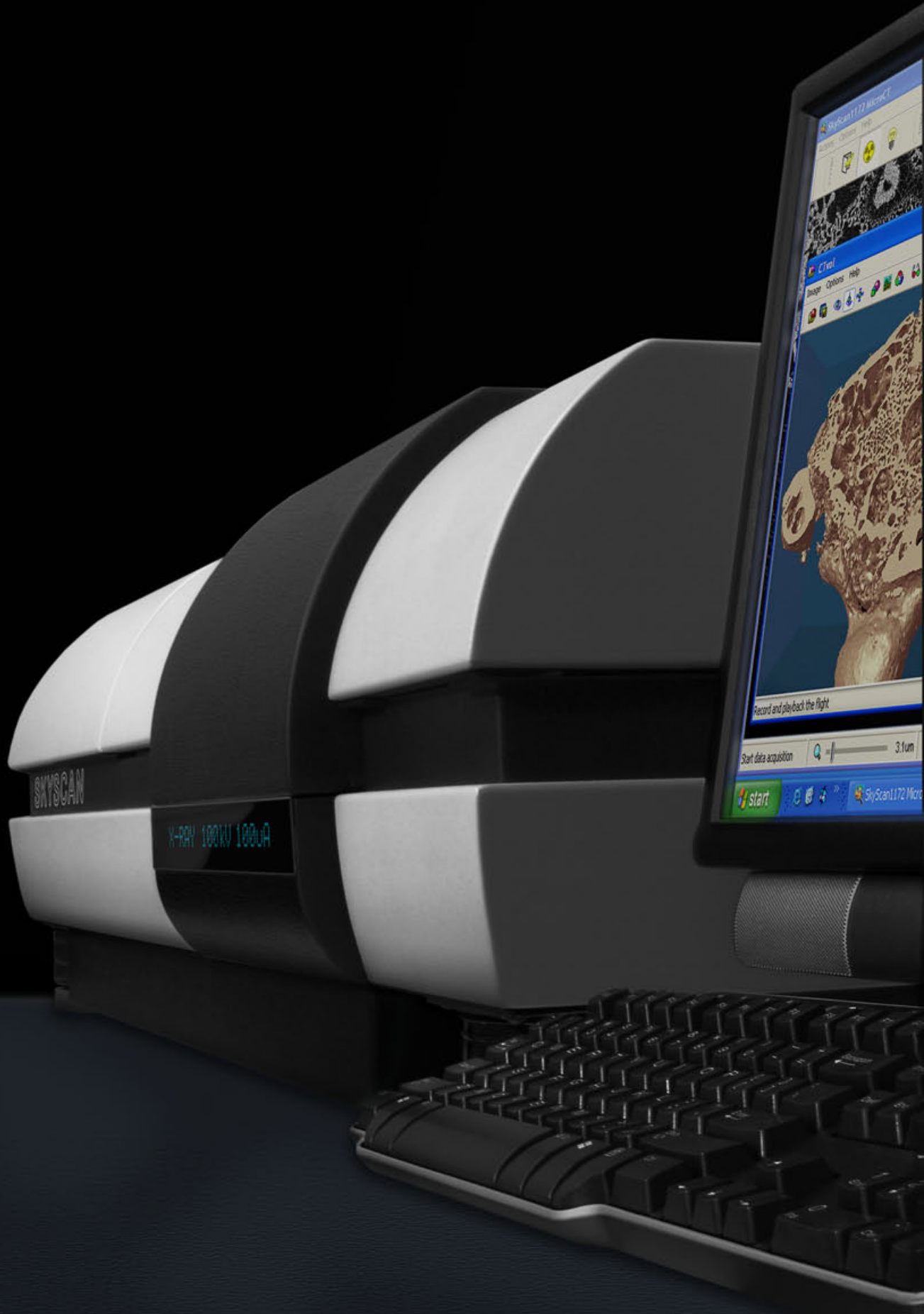


SkyScan 1172 high-resolution micro-CT



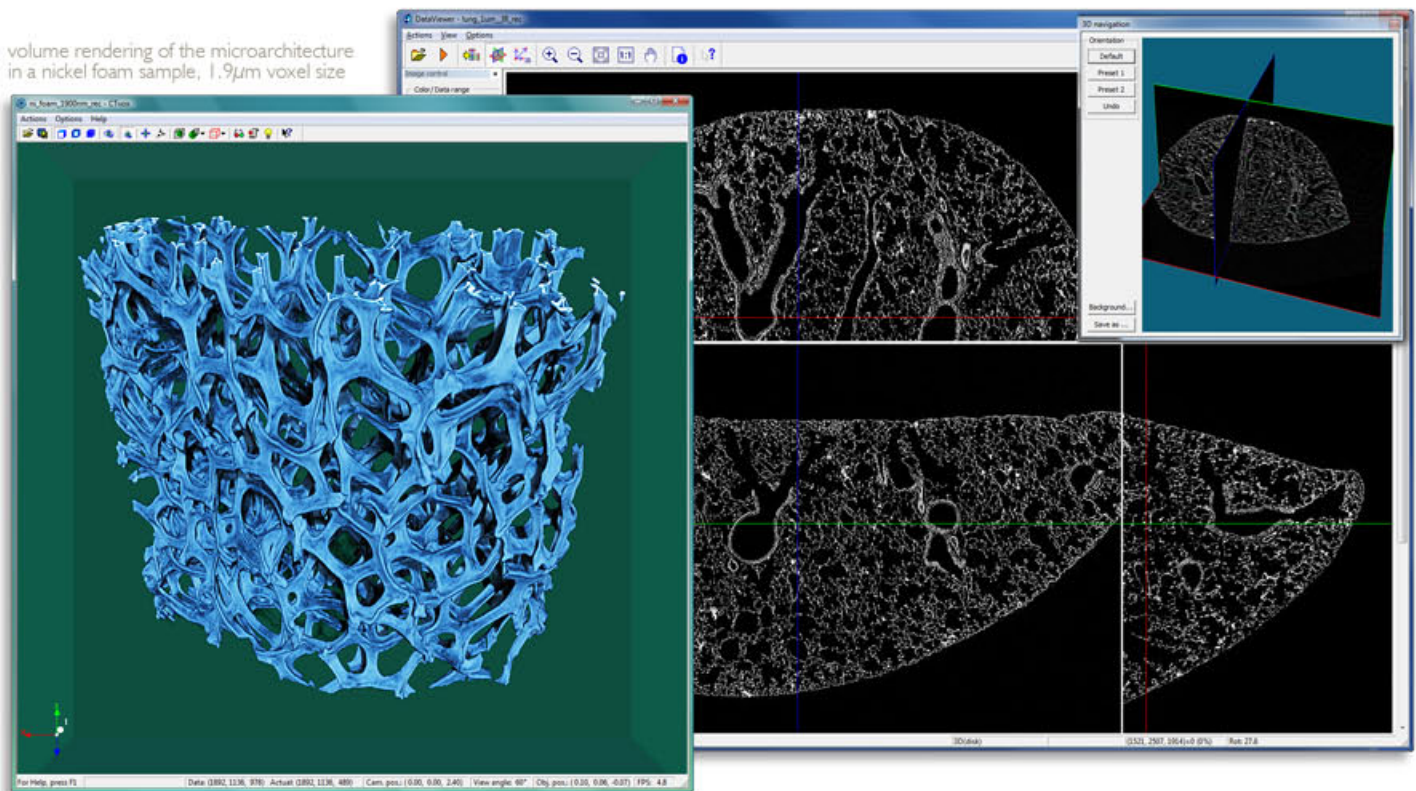
The SkyScan I172 represents a new generation in micro-CT systems. A novel architecture in which the sample stage and the X-ray camera both automatically move during magnification adjustment, allows an unprecedented combination of spatial resolution, image quality, sample size accommodation and scanning speed.

FEATURES

- up to 8000x8000 pixels in every slice,
- down to 500nm isotropic detail detectability,
- dynamically variable geometry for shortest scan at any magnification,
- fully distortion corrected 11Mp cooled X-ray camera,
- single computer or cluster cone-beam reconstruction,
- software for 2D/3D image analysis and realistic visualization
- scanning sample during compression, tension, heating, cooling

three orthogonal virtual slices through a lung sample, 1µm voxel size

volume rendering of the microarchitecture in a nickel foam sample, 1.9µm voxel size



SPECIFICATIONS

- X-ray source 20-100kV/10W, or 20-80kV/8W, automatic filter changer
- X-ray detector 11Mp cooled 12bit CCD fiber-optically coupled to scintillator
- 3D spatial resolution ... 500nm detail detectability, <5µm low contrast resolution
- Object size maximum 50mm in diameter, 70mm in length
- Reconstruction single PC or cluster cone-beam reconstruction
- Optional stages micropositioning, compression/tension, heating, cooling (page 10)
- Radiation safety <1µSv / h at any point on the instrument's surface

