



## • SkyScan1174

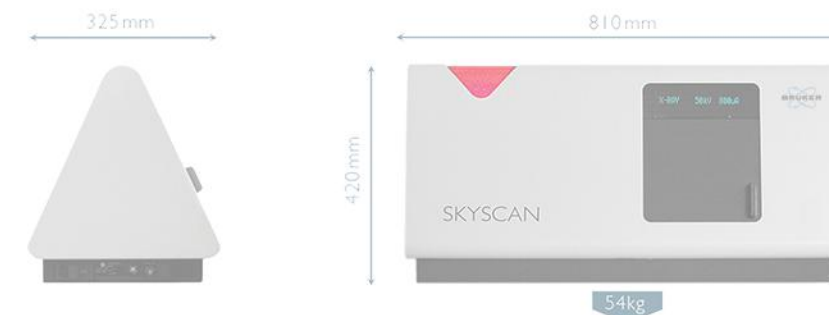
### Compact Desk-Top X-Ray Microtomograph

#### World's most compact micro-CT for research and industrial quality control

- The system is based on maintenance-free X-ray source with adjustable 20-50kV energy and filter holder.
- The instrument includes cooled 1.3 Mp camera optically coupled to scintillator by variable zoom lens.
- It acquires images with isotropic detail detectability 6 - 30µm dependent on magnification.
- The system can be controlled by desk-top or notebook computer.
- Special (optional) version of the SkyScan1174 can work in ambient temperature down to -20°C.
- GPU-accelerated 3D reconstruction provides speed-up 2-10 times compared to commonly used reconstruction algorithms.
- Supplied software package includes programs for 2D/3D image analysis and realistic 3D visualization by surface / volume rendering of scanning results, data export and volume rendering on mobiles.
- Optional stages support micropositioning and scanning during compression, tension, heating or cooling.



At a fraction of the price of competitor systems, with a small footprint, this scanner provides fast, high resolution 3D imaging with exceptional quality.



X-ray source	20-50 kV, 50 W, metal-ceramic X-ray tube
X-ray detector	1.3 Mp (1304x1024 pixels) 14-bit, cooled CCD camera optically coupled to scintillator by motorized zoom lens
Nominal resolution (pixel size at maximum magnification)	6 µm at maximum magnification
Reconstructed volume (after a single scan)	up to 1304 x 1304 x 930 pixels
Scanning space	maximum 30 mm diameter, 50 mm height
Radiation safety	< 1µSv/h at any point on the instrument surface
Power supply	100-240V AC, 50-60 Hz, typ. 90 W at maximum X-ray power

An ice sample kept at -20°C by the cooling stage installed in SkyScan-1174 specimen chamber. Details on optional stages for *in-situ* investigations can be found in page 18.

