



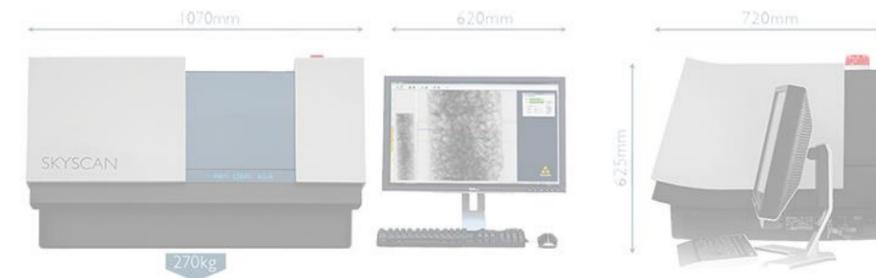
• SkyScan1173

High Energy Desk-Top X-Ray Microtomograph

Desk-top instrument for non-destructive 3D reconstruction of large and dense objects

- The system is based on an X-ray source with a wide energy range of 40-130kV and a 4-position filter changer to select the ideal scanning conditions for different types of objects.
- Distortion-free flat-panel 5Mp detector includes a special lead glass fiber-optic plate to ensure long lifetime under high-energy X-rays.
- Maximum scanning size is 140mm diameter and 150mm height. An integrated micropositioning stage simplifies optimal object positioning or allows selection of a particular part of a large object for partial scanning.
- GPU-accelerated 3D reconstruction supports all image formats with speed-up 5-10 times compared to conventional reconstruction algorithms.
- A special (optional) version of the SkyScan1173 can work in ambient temperature down to -20°C.
- Supplied software package includes programs for 2D/3D image analysis and realistic 3D visualization by surface and volume rendering as well as data export and volume rendering on mobiles (iOS / Android).
- Optional object stages allow investigation under compression, tension, heating or cooling.

This high-energy system is specially designed to scan large and high density samples as required in many applications such as oil and gas exploration, geology, building materials, industrial metrology, electronic assemblies, medical devices, etc.



X-ray source	40-130 kV, 8 W, < 5 μm spot size @ 4 W
X-ray detector	5 Mp (2240 x 2240 pixels) flat-panel sensor
Nominal resolution (pixel size at maximum magnification)	< 5 μm
Reconstructed volume (after a single scan)	up to 2240 x 2240 x 1900 pixels
Scanning space	maximum 140 mm diameter, 150 mm height
Radiation safety	< 1 μSv/h at any point on the instrument surface
Power supply	100-130 V or 200-240 V AC, 50-60 Hz, typ. 150 W

