

N180

scientific-grade
high resolution
microCT



SPECIFICATIONS

GENERAL

Pixel size at maximum magnification	0.3 μm (sCMOS), <math><1.2\mu\text{m}</math> (FP)
True low-contrast 3D resolution	2 μm
Maximum scanning diameter	\varnothing 100mm
Maximum scanning size	length 137-163 mm
Maximum physical object height	200mm
Size (WxDxH)	1200x640x520
Weight	225kg

X-RAY SOURCE

Emitter type	Transmission (sealed)
Maximum voltage	110kV
Maximum power	16W
Smallest spot size	2 μm
Filter changer, number of positions	20

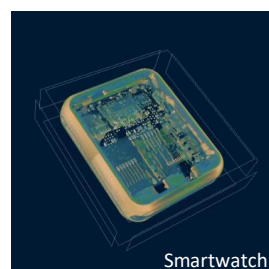
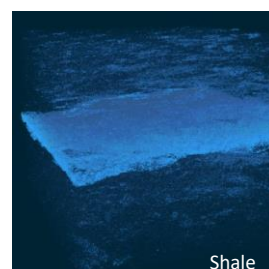
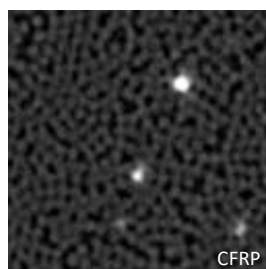
X-RAY CAMERA

Image format	27MP sCMOS/7Mp Flatpanel
Protection against radiation damage	Radiation hardened

INTEGRATED OPTIONS

Active artefact suppression
Shielded passthrough

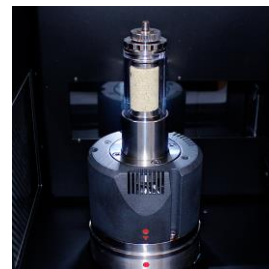
APPLICATIONS



ACCESSORIES



THERMAL STAGE
-40°C below ambient up to 120°C



COMPRESSION/TENSILE STAGE
+/-1000N

Neoscan microCT systems are supplied with an in-house developed all-in-one software tool for intuitive scanner control and processing data. From acquisition of a full series of 2D projection images, reconstruction into a 3D volume, to visualization, inspection and GPU-accelerated analysis of this volume in 2D and 3D, the software bundles all complementary steps from sample to result. The Neoscan software package includes an intuitive user interface, which will guide you through your straightforward workflow, allowing to use it instantly. All final and intermediate results are stored in conventional file formats and can be imported to any other software.