

Technical Datasheet

# NEOSCAN N70

Desktop micro-CT Scanner

## System Specifications

### General

Pixel size at maximum magnification	< 2,5 $\mu\text{m}$
True low-contrast 3D resolution	$\leq 5 \mu\text{m}$
Maximum scanning diameter	100 mm
Maximum scanning length	120 mm
Maximum physical object length	220 mm
Radiation safety	< 1 $\mu\text{Sv/h}$ at 10cm from instrument surface
Size / weight	1050W x 607D x 463H mm / 210kg
Power supply	100 – 240 V AC, 50 – 60 Hz, 3A

### X-Ray Source

Type	permanently sealed
Emitter	W (Tungsten)
Maximum voltage	100kV
Maximum power	20W
Smallest spot size	5 $\mu\text{m}$ or smaller
Automatic filter changer, number of positions	12

### X-Ray Detector

Image sensor	7 megapixels active pixel flat panel
Camera field of view	140 x 120 mm
Scintillator	GADOX
Protection against radiation damages	radiation hardened fiber optics

### Integrated options

Micro-positioning stage (travel)	Integrated (10 mm)
Power for optional stages through sliprings	24 W (24 V / 1 A)