


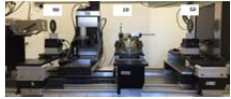


CT equipment at the Center for X-ray analytics

Scanner	RX	Micro-CT	MicroDETECT	Linac-2D	PCI System	PCI Add On
						
Type	Cone-beam (3D)	Cone-beam (3D)	Cone-beam (3D)	Fan-beam (2D)	Phase Contrast	Phase Contrast
X-ray source	160 kV micro focus 230 kV macro-focus	160 kV Viscom micro-focus 225 kV Viscom macro-focus	300 kV Micro focus tube FineTec FOMR 300.03Y RT	4/6 MeV dual energy linear accelerator US Photon Pulstar PSL-6D	35 keV design energy	45 keV design energy
Focal spot size	< 1 μm	< 3 μm	< 5 μm	2.0 mm	1 mm	< 3 μm
Detector	Flat panel Varian PaxScan 2520 pixel matrix: 1920 x 1536 pixel size: 127 x 127 μm	Flat panel, Perkin Elmer XRD 1621 pixel matrix: 2048 x 2048 pixel size: 0.2 x 0.2 mm	Flat panel, Perkin Elmer XRD 1611 CP3, CsI (Ti) pixel matrix: 4096 x 4096 pixel size: 0.1 x 0.1 mm	Linear detector, Detection- Technology X-Scan iHE04, 10 mm CdWO4 detector width: 1500 mm pixels: 3828 pixel pitch: 0.4 mm	Teledyne Dalsa Shadow Box Pixel size 50 μm	Flat panel, Perkin Elmer XRD 1621 Pixel size 200 μm
Detector collimator	no collimator	no collimator	no collimator	tungsten slit collimator, adaptable aperture	Grating interferometer	Grating interferometer
Sample dimensions and weight	diameter: 50 mm height: 1000 mm weight: 90 kg	diameter: 250 mm height: 500 mm weight: 10 kg	diameter: 230 mm height: 720 mm weight: 50 kg	diameter: 700 mm height: 2000 mm weight: 1000 kg	FOV 50 x 50 mm ²	FOV 25 x 25 mm ²
Penetration	aluminum: 100 mm plastics: 300 mm	aluminum: 180 mm	steel: 60 mm aluminum: 180 mm	steel: 300 mm aluminum: 900 mm	PMMA: 100 mm	PMMA: 150 mm
Spatial resolution	0.5 μm	2 μm	max. 10 μm	max. 250 μm	50 μm	50 μm