



INGENIOUS 3D X-RAY IMAGING

X4 POSEIDON

Technical Specifications

Transmission source		
General		
Dimensions	1250*604*682 mm	
Weight	350 kg	
Touchscreen	Standard, Integrated	
Max sample size	110mm Ø * 300mm ↓	
Sample changer	Optional, 15 positions, 50mm Ø * 80mm ↓ per position	
X-Ray source	Closed Transmission-type	
Spot size	2µm @ 2W	
Max Energy	110kV	
Max Current	16W	
Filter changer	Standard, Optionally motorized	
Filter positions	7	
Stages	Integrated micro-positioning stage Optional Cooling, Heating, Compression, Tensile	
Software	Included 3DxSUITE, in-house	
Detector-dependent		
Detector	sCMOS	FP
Pixel matrix (px)	4096*4096 (16.8MP)	2800*2400 (7MP)
Active area (mm)	37*37	140*120
Pixel pitch (µm)	9µm	50µm
Spatial resolution (10% MTF)	<2µm @ 2W	3µm @ 2W
Smallest image pixel size	200nm	1.2µm
Largest image pixel size	7µm	39µm
Max FOV, single FOV	29mm Ø * 29mm ↓	110mm Ø * 95mm ↓
Max FOV, oversized + offset	58mm Ø * 129mm ↓	110mm Ø * 200mm ↓
Scan modes	Oversized, Offset, Step-and-Shoot, Continuous rotation, helical (optional), HART+ (optional), Best-Scan-Geometry (optional)	Oversized, Step-and-Shoot, Continuous rotation, helical (optional), HART+ (optional), Best-Scan-Geometry (optional)

Reflection source

General

Dimensions	1250*604*682 mm
Weight	350 kg
Touchscreen	Standard, Integrated
Max sample size	110mm Ø * 300mm ↓
Sample changer	Optional, 15 positions, 50mm Ø * 80mm ↓ per position
X-Ray source	Closed Transmission-type
Spot size	5µm @ 4W
Max Energy	100kV
Max Current	20W
Filter changer	Standard, Optionally motorized
Filter positions	7
Stages	Optional Integrated micro-positioning stage Optional Cooling, Heating, Compression, Tensile
Software	Included 3DxSUITE, in-house

Detector-dependent

Detector	sCMOS	FP
Pixel matrix (px)	4096*4096 (16.8MP)	2800*2400 (7MP)
Active area (mm)	37*37	140*120
Pixel pitch (µm)	9µm	50µm
Spatial resolution (10% MTF)	<5µm @ 4W	<5µm @ 4W
Smallest image pixel size	0.3µm	1.7µm
Largest image pixel size	7µm	40µm
Max FOV, single FOV	29mm Ø * 29mm ↓	110mm Ø * 95mm ↓
Max FOV, oversized + offset	58mm Ø * 129mm ↓	110mm Ø * 200mm ↓
Scan modes	Oversized, Offset, Step-and-Shoot, Continuous rotation, helical (optional), HART+ (optional), Best-Scan-Geometry (optional)	Oversized, Step-and-Shoot, Continuous rotation, helical (optional), HART+ (optional), Best-Scan-Geometry (optional)

Bruker AXS is continually improving its products and reserves the right to change specifications without notice.
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