

X5000[®]

Universal & Flexible



2D Digital Radiography & 3D Computed Tomography

450 kV

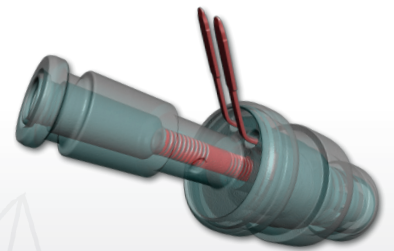
max X-ray Energy

>3000X

Geometric Mag

32 in x 48 in

[81 cm x 121 cm] nominal part envelope



Flexibility to Choose

North Star Imaging's team of experts will help you select the best combination of X-ray source and X-ray detector for your application. The system boasts a large scanning envelope and excellent ergonomics for loading sizable objects while still maintaining the sensitivity to inspect even the smallest of items.

System Capabilities

Geometric Magnification	>3000x
Overall Maximum System Resolution	~500 nm

X-Ray Source

Voltage Range	10 kV to 450 kV
Minimum Focal Spot Size	~500 nm
X-Ray Tube Types	Nano-focus Micro-focus Mini-focus
Dual Tube Configuration	Optional

X-Ray Detector

Detector Types	Flat Panel (DDA) Linear Diode Array (LDA)
Grade Options	Standard Premium ASTM
Maximum Detector Size	16 in x 16 in [40 cm x 40 cm]
Dual Detector Configuration	Optional

Manipulator

Maximum Sample Weight	500 lb [227 kg]
Axis Travel	Vertical: 48 in [121 cm] Horizontal: 32 in [81 cm] Tilt: +20° / -20° Rotation: 360° Continuous
Nominal Part Envelope	Diameter: 32 in [81 cm] Height: 48 in [121 cm]

Virtual Detector Dimensions Using a 16 in x 16 in [41 cm x 41 cm] Detector

	Standard	w/ vorteX	w/mosaiX
Diameter	~16 in [40 cm]	~16 in [41 cm]	~39 in [100 cm]
Height	~16 in [40 cm]	~57 in [145 cm]	~57 in [145 cm]

Cabinet

	240 kV	450 kV
Width	107 in [271 cm]	107 in [271 cm]
Depth	80 in [203 cm]	80 in [203 cm]
Height	92 in [233 cm]	92 in [233 cm]
Weight	14800 lb [6170 kg]	29000 lb [13200 kg]

All cabinets are steel/lead/steel construction that meet or exceed 21 CFR 1020.40 and EN 61010-2-091 2012.

Exact specifications vary depending on tube, detector, and other optional configurations

Contact us for a consultation and quote for your project:

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