



Versatile & Configurable X-ray System



2D Digital Radiography & 3D Computed Tomography

450 kV

Maximum X-ray Energy

63 in

[160 cm] Maximum Focal Distance

32 x 48 in

[81 x 121 cm] Nominal Part Envelope

Flexibility to Choose

The X5000 has a large scanning envelope for larger parts while maintaining the ability to inspect small components. The system also has an ergonomic loading feature to easily load large parts. North Star Imaging's team of experts will help you select the best system configuration for your application.

System Features

DICONDE	Compliant
Process Controls	Integrated
Advanced Imaging Modalities	SubpiX MosaiX VorteX Ring Reduction
efX Software Suite	Integrated
Motion Control	Integrated
RobotiX Loader	Optional

X-Ray Source

Voltage Range	10–450 kV
Minimum Focal Spot Size	~900 nm
X-Ray Tube Types	Microfocus - Reflection Microfocus - Transmission Microfocus - Dual Head Minifocus
Dual Tube Configuration	Optional

X-Ray Detector

Detector Types	Flat Panel (DDA) Linear Diode Array (LDA)
Grade Options	Premium Superior (ASTM)
Pixel Pitch Range	DDA 100–200 μ m LDA 200–400 μ m
Maximum Size	DDA 17 x 17 in [43.2 x 43.2 cm] LDA 36.3 x 0.03 in [92.2 x 0.08 cm]
Dual Detector Configuration	Optional

Manipulator

Maximum Sample Weight	500 lb [227 kg]	
Part Travel	Horizontal Vertical Source to Detector Tilt Rotation	43 in [109 cm] 50 in [127 cm] 44–63 in [112–160 cm] +20°/-20° 360° Continuous
Nominal Part Envelope	32 x 48 in [81 x 121 cm]	
Maximum Focal Distance	63 in [160 cm]	

Cabinet

Width	117 in [297 cm]
Depth	81 in [206 cm]
Height	98 in [249 cm]
Weight	240 kV 15,100 lb [6,849 kg] 450 kV 30,200 lb [13,698 kg]

Exact specifications vary depending on source, detector, and other optional configurations.

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



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