

# X7000<sup>®</sup>

Modular & Robust  
X-ray System

NORTH STAR IMAGING



AN ITW COMPANY



2D Digital Radiography & 3D Computed Tomography

**450 kV**

Maximum X-ray Energy

**90 in**

[228 cm] Maximum Focal Distance

**60 x 60 in**

[152 x 152 cm] Nominal Part Envelope

# Flexibility to Choose

The X7000 has the largest scanning envelope and longest focal distance of our standard systems. This system allows you to scan large parts while maintaining the ability to inspect small components. North Star Imaging's team of experts will help you select the best system configuration your application.

## System Features

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

## X-Ray Source

Voltage Range	10–450 kV
Minimum Focal Spot Size	~2 $\mu\text{m}$
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 (ASNT)
Pixel Pitch Range	<i>DDA</i> 100–200 $\mu\text{m}$ <i>LDA</i> 200–400 $\mu\text{m}$
Maximum Size	<i>DDA</i> 17 x 17 in [43.2 x 43.2 cm] <i>LDA</i> 36.3 x 0.03 in [92.2 x 0.08 cm]
Dual Detector Configuration	Optional

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.

## Manipulator

Maximum Sample Weight	500 lb [227 kg]
Part Travel	<i>Horizontal</i> 48 in [123 cm] <i>Vertical</i> 60 in [152 cm] <i>Source to Detector</i> 68 in [172 cm] <i>Tilt</i> +20°/-20° <i>Rotation</i> 360° Continuous
Nominal Part Envelope	60 x 60 in [152 x 152 cm]
Maximum Focal Distance	90 in [228 cm]

## Cabinet

Width	176 in [447 cm]
Depth	112 in [284.5 cm]
Height	136 in [345.5 cm]
Weight	50,000 lb [22,680 kg]



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