



On-Demand Access to Industry-Leading CT Experts and X-Ray Scanning Services

Owning and operating X-ray CT systems can be expensive and require highly trained personnel. Gain access to the most advanced equipment and industry-leading experts through hiring us by the hour, per scan, or on a project basis.

Inspection Challenges

- Limited inspection capacity
- Lack of X-ray/CT equipment
- Shortage of trained DR/CT experts
- Urgent or overflow inspection needs
- Complex or difficult-to-image parts
- Unknown Failure Mechanism
- Hard to measure internal features
- Meeting strict industry standards

Key Capabilities

- Part-to-CAD Comparison
- Failure Analysis & Product Liability
- Porosity & Void Analysis
- Dimensional Analysis & 3D Metrology
- Reverse Engineering
- Defect & Materials Analysis
- Quality Control & Standards Coformance
- High Throughput Inspection
- High-Energy CT for Large, Dense Parts

Industries We Serve

- Aerospace
- Automotive & EV
- Electronics
- Forensics & Product Liability
- Additive Manufacturing
- Medical
- Military & Defense
- Research
- And many more

What is Digital Radiography (DR)?

DR is a real-time 2D X-ray imaging method which uses an X-ray detector instead of film. DR is quick, efficient, and effective for many routine inspections. It's ideal for inspection of a few components or as a cost-effective solution for high-throughput inspections.

What is Computed Tomography (CT)?

CT uses X-rays to create detailed cross-sectional images (slices) of an object, which can be reconstructed into a 3D model. This provides a complete 3D representation of the internal and external structures of an object. CT scans can be used to measure internal dimensions and geometries accurately.

Scanning Services Process



Consult

Consult our application specialists to develop a plan of action.



Ship

Ship your product to any of our worldwide locations.



Scan/Data

Rotate, virtually cross section, and measure your part with our viewing software.



Results

Meet virtually or visit our facility to answer your questions.

Systems

North Star Imaging offers a full range of systems to meet your digital radiography, computed tomography, and metrology needs. All of our industrial X-ray & CT systems are modular, giving you the flexibility to select the best combination of features for your specific application.



Facility Location	Systems	Facility Certifications	Personnel Certifications
Rogers, Minnesota Global Headquarters, Manufacturing & Inspection Lab	• 7 industrial X-ray and CT systems total - the largest of the NSI labs • Full range of 2D digital radiography (DR) systems • Full range of 3D computed tomography (CT) systems	• ISO 9001:2015 • ISO 14001:2015 • ITAR registered/compliant • ASTM compliant • DOD 4145.26-M compliant	• ASNT certified technicians • NAS 410 certified technicians
Aliso Viejo, California High-Energy, NADCAP-Accredited West Coast Lab	• 4 systems total • MeVX6 High Energy system, up to 6 MeV • X5000 - parts up to 32" x 48", up to 450 kV • X3000 - parts up to 19.5" x 24", up to 240 kV	• ISO 9001:2015 • NADCAP Accredited • ITAR registered/compliant • ASTM compliant	• ASNT certified technicians • NAS 410 certified technicians
Orlando, Florida High-Energy, NADCAP-Accredited Southeast Lab	• 6 systems total • MeVX9 High Energy system, up to 9 MeV • X5000 - parts up to 32" x 48", up to 450 kV • X3000 - parts up to 19.5" x 24", up to 240 kV	• ISO 9001:2015 • NADCAP Accredited • ITAR registered/compliant • ASTM compliant • DOD 4145.26-M compliant	• ASNT certified technicians • NAS 410 certified technicians
High Wycombe, England European Inspection & Demo Lab	• X5000 - parts up to 32" x 48" with dual source, up to 240 kV and 450 kV	• ISO 9001:2015 • ASTM compliant	• NAS 410 certified technicians

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