North Star Imaging, Inc. is a national leader in the manufacture of industrial x-ray inspection systems, providing solutions to companies with difficult inspection requirements. Since its inception in 1986, NSI has prided itself in its unwavering dedication to using state-of-the-art technology, integrated in systems that are specifically tailored to solve customer problems.

Many of our innovative designs have been incorporated into products ranging from small cabinet-style real-time x-ray and Computed Tomography systems to large conveyor-based digital radiography systems.

No other company can provide you with so many resources in support of your inspection needs and no other company has our technical expertise, wide range of state-of-the-art technologies and equipment and the intense dedication to customer service.

Please call for a product analysis and cost evaluation to assess the applicability of our services to your requirements.

NORTH STAR IMAGING, INC
19875 SOUTH DIAMOND LAKE ROAD, SUITE 10
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1.800.635.8392  •  763.463.5650

www.4NSI.com
www.XRAYINSPECTIONSERVICE.com
www.XVIEWCT.com
North Star Imaging’s Inspection Services Group provides real-time x-ray inspection and CT scanning services to virtually anyone needing to verify the integrity of internal components. The “inside view” that our systems produce is unparalleled in the industry and is the foundation for all of the services that we provide. When you need high accuracy examination of internal components or assemblies or wish to control and inspect the dimensions of any component, call on NSI Inspection Services Group. **No other company offers our broad range of services or our depth of non-destructive testing expertise.**

**NSI X-RAY INSPECTION CAPABILITIES WILL HELP IDENTIFY AND SOLVE YOUR MANUFACTURING PROBLEMS.**

**APPLICATION EXAMPLES:**
- Failure Analysis
- Assembly Verification
- Advanced Material Analysis
- Weld Quality Analysis
- Medical and Pharmaceutical Device Inspection
- Plastic Welding/Bonding Quality Verification Inspection
- Research and Development
- Museum Artifact Digitization
- Product Quality Compliance/Screening
- Product Contamination
- Food Products Inspection
- Electronic Component Inspection
- Aluminum and Steel Castings Inspection

**AVAILABLE SERVICES INCLUDE:**
- Computed Tomography (CT) with 3D data/reverse engineering capabilities
- Digital Radiography using flat-panel amorphous silicon technology
- Microfocus Radioscopy with focal spots down to 1 micron for ultra-high magnification
- Real-Time Radiography using the latest in digital image intensifier technology
- Computed Radiography utilizing Fuji’s cutting-edge CR systems
- Linear Diode Array (LDA) for in-line product screening
- High-speed real-time for stop-action imaging of internal components
- 360 degree X-ray projections
- CT slices in any axis
- 3D CT file with viewer software
- 2D and 3D movie files
- Surface models from CT reconstruction
- 3D comparison metrology report

When your application requires superior imaging results, X-View ISG is prepared to utilize our unparalleled CT expertise. Services include deliverables such as:

- High resolution X-ray imaging
- Failure analysis
- Density analysis
- High speed 3D scanning
- Metrology
- CT provides internal information. Cracks, porosity, flaws, inclusions and many other defects can be seen, located in space, and measured with CT.

DENSITY ANALYSIS It is possible to display a complete and reliable density map of any object or assembly to control process variables such as injection characteristics or fiber-propagation.

**METROLOGY** CT is the only technology capable of measuring internal and external dimensions in 3D. This revolutionary method may allow you to eliminate costly dimensional scanning and associated sectioning of parts. 2D and 3D high accuracy measurements can be performed anywhere within the part and automatic 3D dimensional comparison with original CAD model is provided.

**REVERSE ENGINEERING** CT has become a viable method of creating a 3D virtual model from an existing part for use in 3D CAD, CAM, CAE and other software programs. A triangulated surface is generated from the 3D volume CT reconstruction and, for the first time, provides both internal and external dimensional data without destroying the part.
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We employ state-of-the-art equipment and technology, providing the highest image resolution available in the industry.

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**HIGH RESOLUTION X-RAY IMAGING**

**DENSITY ANALYSIS**

**FAILURE ANALYSIS**

**HIGH SPEED 3D SCANNING**

**2D X-RAY IMAGES**

**3D CT VOLUME**

**MEASUREMENT ON 2D CT SLICE**

**CAD MODEL**

**3D CT SURFACE**

**DENSITY MAPPING**

**INSIDE THE PART**

**METROLOGIC ANALYSIS**
THE MOST ADVANCED
X-RAY INSPECTION LABORATORY
IN THE COUNTRY

ABOUT NSI

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