### 3D X-RAY COMPUTED TOMOGRAPHY

#### APPLICATIONS
- NDT Inspection
- Density Analysis
- Internal & External Measurements
- Reverse Engineering
- Rapid Prototyping
- Metrology
- 3D Digitization/Modeling

#### MARKETS
- Aerospace & Aviation
- Pharmaceutical & Medical Devices
- Automotive Castings
- Tire Industry
- Electronics
- Military
- New Materials Research Labs
- Food and Seed Museums

#### SOFTWARE
- **Video CT**
- **Feature Extraction**
- **Quality Assurance**
- **Optimization**
- **Material Inspection**
- **R&D / Industrial**

#### CABINET
- **Cabinet Features**
  - Rear Door: Fully-Enclosed, Steel/LExa/Steel Construction
  - Cable Access Port with Cover, Interior Lighting, Sliding Access Door with LExa Glass Viewing Window

#### RADIATION SHIELDING
- X-ray "On" Warning Light, Primary and Secondary X-ray Safety Interlocks
- Designed to Meet All State and Federal X-ray Safety Standards

#### DETECTOR
- **Detector Types**
  - **High Voltage**
    - 150 kv Max
  - **Focus Spot Size**
    - < 5 Microns
  - **Pixel Size**
    - From 50µm, Improved with Magnification
  - **Panel Size**
    - From 4" x 4" to 16" x 16"

#### Cabinet Sizes
- **52" x 79" x 87"**
  - Custom
- **108" x 92" x 79"**
  - Custom

#### Software
- Software Options
  - **Video CT**
  - **Feature Extraction**
  - **Quality Assurance**
  - **Optimization**
  - **Material Inspection**
  - **R&D / Industrial**

#### Technical Details
- **Overall Scan Time**
  - Application Dependent: 30 Minutes to 2 Hours
- **Data Characters**
  - High-Performance Software
- **Specifications**
  - **Video CT**
    - **Detector Types**
      - **High Voltage**
        - 150 kv Max
    - **Focus Spot Size**
      - < 5 Microns
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#### Analysis & Measurement
- **3D X-ray Computed Tomography**
- **Structural Analysis**
- **Automotive Casting**
- **Aerospace & Aviation**
- **Pharmaceutical & Medical Devices**
- **Remote Inspection**
- **Density Analysis**
- **Internal & External Measurements**
- **Reverse Engineering**
- **Rapid Prototyping**
- **Metrology**
- **3D Digitization/Modeling**

**Please Visit [www.xviewct.com](http://www.xviewct.com) for more information**

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**SOLARIS X50-CT X500-CT X5000-CT EXPRESS-CT**
INSPECT
ANALYZE
MEASURE
MODEL
PROTOTYPE

MARKETS
AEROSPACE & AVIATION
PHARMACEUTICAL & MEDICAL DEVICES
AUTOMOTIVE CASTINGS
TIRE INDUSTRY

APPLICATIONS
NON-DESTRUCTIVE DENSITY ANALYSIS
INTERNAL & EXTERNAL MEASUREMENTS
REVERSE ENGINEERING
RADIO PROTECTION METROLOGY
3D DIGITIZATION/MODELING

NSI OFFERS:
CT SYSTEMS FOR 3D INSPECTION: IMAGIX, X50-CT, X500-CT, X5000-CT, CUSTOM CT
EXPRESS-CT FOR VERY FAST IN-LINE PRODUCTION INSPECTION IN 3D
CT UPGRADE: HARDWARE AND SOFTWARE PACKAGE DEDICATED TO DIGITAL RADIOGRAPHY UPGRADE FOR CT CAPABILITIES AND CT RETROFIT
CT INSPECTION SERVICE

INTEGRAL MEASUREMENTS
SURFACE RECONSTRUCTION OF AN ALUMINUM CASTING
AUTOMATIC DEVICE
PHARMACEUTICAL TABLET
2 SECOND VIEW OF A Brake Joint
RAT F ENCH

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For over 20 years, North Star Imaging, Inc. has been a market leader in the development and production of cutting-edge X-ray equipment. In 2006, NSI took over as the market leader in the USA for X-ray and Computed Tomography inspection systems. NSI offers a complete line of X-ray Computed Tomography equipment branded X-View™ CT.

With our diverse CT and MicroCT product line, we are able to provide the properly sized system for all applications. We design and manufacture systems utilizing the latest in X-ray sources, manipulators, and detectors including the latest generation of flat panels and linear arrays. Our in-house design and manufacturing capabilities allow us to offer systems tailored to the most demanding of applications. All NSI radiation shielded enclosures are designed to meet state and federal radiation safety regulations demanding of applications. All NSI radiation shielded enclosures are designed to meet state and federal radiation safety regulations. Our in-house design and manufacturing capabilities allow us to offer systems tailored to the most demanding of applications. All NSI radiation shielded enclosures are designed to meet state and federal radiation safety regulations, and are built with a steel/lead/steel cabinet construction which has a fit and finish that is unparalleled in the industry.

NSI X-View™ CT systems integrate the most powerful CT reconstruction and visualization software available. X-View™, which includes modules for geometric calibration, ultrafast GPU-based CT reconstruction, measurement, real-time density segmentation and surface extraction (point clouds, CAD capabilities). A unique 3D volume rendering feature is included for real-time voxel-based visualization of CT results, as well as many more functional features dedicated to CT applications.

CT INSPECTION SERVICE
NSI's Inspection Services Group is the most advanced CT inspection lab in the country. Visit www.xrayinspectionservice.com for more information.

EXPRESS-CT
NSI offers the first Inline CT solution for ultra-fast CT inspection with 3D Automatic Defect Recognition (AD) and/or 3D modeling of manufacturing parts while in production. NSI’s proven experience in production inspection systems coupled with the latest generation of ultra-fast CT reconstruction software provides a revolutionary solution for 100% complete 3D CT inspection on the production line.

CT SYSTEM OVERVIEW
A unique 5-step start-to-finish guided process also suitable for any existing CT system resulting in much faster reconstruction as well as a user-friendly interface and 3D capabilities.

CT UPGRADE
NSI can upgrade any X-ray system to CT capability utilizing the eFx-CT software and unique CT upgrade experience. This is energy and affordable solution for X-ray users to implement CT inspection and 3D volume digitization. eFx-CT Upgrade solution is also suitable for any existing CT system resulting in much faster reconstruction as well as a user-friendly interface and 3D capabilities.

CFX-CT SOFTWARE
NSI's CFX-CT Computed Tomography software is the Easiest, Fastest and most Complete Industrial CT Software on the market today. eFx-CT features a unique 5-step start-to-finish guided process for easy CT reconstructions. The software is equipped with a revolutionary GPU accelerator module for unmatched CT reconstruction and visualization speed.

SYSTEMS OVERVIEW

X50 – CT SERIES
The X50-CT is a six-axis universal X-ray imaging system designed for the inspection of small to medium sized objects. The small footprint and shielding up to 225KV makes the 50 Series the #1 choice for space sensitive environments. It is ideal for scanning multiple small objects and larger objects up to 12" (30cm) in size for 3D CT.

X500/5000 – CT SERIES
The X500/5000 Series is designed for the inspection of medium to large objects utilizing a 7-axis universal manipulator (X500) and optional C-arm (X5000). The spacious scan envelope of the 500/5000 Series makes it ideally suited for scanning multiple small objects and larger objects up to 24" (60cm) in size for computed tomography.

X500/5000 – CT SERIES
The X500/5000 Series is designed for the inspection of medium to large objects utilizing a 7-axis universal manipulator (X500) and optional C-arm (X5000). The spacious scan envelope of the 500/5000 Series makes it ideally suited for scanning multiple small objects and larger objects up to 24" (60cm) in size for computed tomography.

IMAGIX – CT SERIES
The Imagix is a universal microCT system designed for the scanning of small objects. The system can handle objects from 0.02" (0.5mm) to 61” (150cm) and perform automatic 3D Computed Tomography reconstruction with state-of-the-art software.

CT OFFERS:
CT SYSTEMS FOR 10 INSPECTION IMAGIX, X50-CT, X500-CT, X5000-CT, X500/5000-CT, CUSTOM CT
EXPRESS-CT FOR VERY FAST IN-LINE PRODUCTION INSPECTION IN 3D
CT SYSTEMS FOR 3D MEASUREMENTS AND ROBOTS ENGINEERING CXMM™
CT UPGRADE - HARDWARE AND SOFTWARE PACKAGE DEDICATED TO DIGITAL RADIOGRAPHY UPGRADE FOR 3D CT CAPABILITIES AND CT RETROFIT
CT INSPECTION SERVICE