



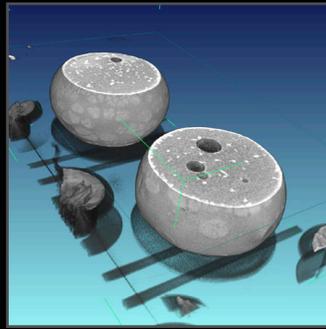
## *2D Digital X-ray and 3D Computed Tomography*



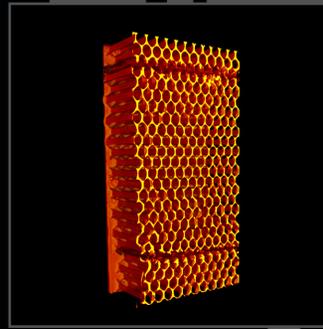
**X50** The X50 is a six-axis universal x-ray imaging system designed for digital radiography and computed tomography inspection of small or medium objects. Its small footprint is the perfect solution for space sensitive environments such as failure analysis labs or production lines. The X50 is ideal for scanning multiple small objects and larger objects up to 12" (30cm) in size, making it a workhorse for the inspection of medical devices, electronics, aerospace components, etc. All systems are manufactured to meet all state and federal radiation safety regulations.



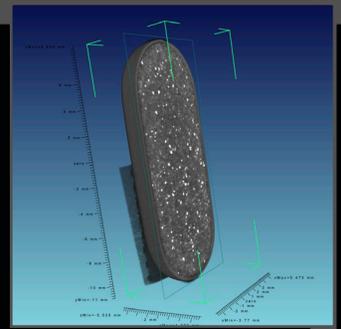
**CASTINGS**



**ELECTRONICS**



**AEROSPACE**



**PHARMACEUTICAL**

## SPECIFICATIONS

### OVERALL

- X-ray Energies from 10kV-240kV
- Geometric Magnification: Up to 4000x
- Overall Maximum System Resolution: better than 1µm
- Meets ASTM E2597 Standard

### CABINET

- External Dimensions: 87" Wide, 52" Deep, 79" Tall (221cm Wide, 131cm Deep, 201cm Tall)
- Cabinet Features: Cable access port with cover, interior lighting, powered sliding access door(s), leaded glass viewing window, safety light curtains
- Steel/lead/steel construction
- Meets or exceeds all federal and state radiation safety regulations
- Touch screen operation
- System includes one ergonomic desk and chair

### MANIPULATOR

- Maximum Sample Weight: 25lbs (11kg)
- Scan Travel (customization available): Vertical = 12" (30cm), Horizontal = 12" (30cm), Z axis (source to detector) = 53" (135cm), Tilt = +20°/-10°, Rotation = 360° continuous
- Part Manipulation Control:
  - All drives variable speed joystick controlled
  - Each axis is independently controlled

- Control-X: Programmable CNC controlled automated scanning with automatic image processing and archiving capabilities

### X-RAY SOURCE

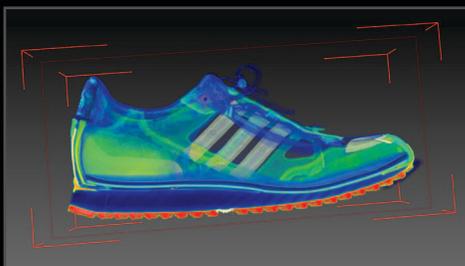
- Voltage Range: 10kV-240kV
- Minimum Focal Spot Size: <1µm
- X-ray Tube Types: Nano-focus, Micro-focus, Mini-focus, Open or Sealed, Transmission or Directional or Dual Head

### X-RAY DETECTOR

- Digital X-ray Detector Types: Flat Panel (DDA), Linear Diode Array (LDA), Image Intensifier
- Grade Options: Standard or CT Premium, 14bit or 16bit
- Detector Size: Up to 16" x 16" (40cm x 40cm)

### X-VIEW SOFTWARE

- Comprehensive acquisition, processing and archival program with user-friendly interface
- High performance image processing and measurement functions
- Non-proprietary multiple image format output/input. Diconde compliant
- Automated program functions for fast analysis
- Multiple window interface for display of raw image, processed image, density data, etc.
- Computed Tomography acquisition module
- Optional 3D Computed Tomography calibration, reconstruction and visualization
- Optional 4D Computed Tomography



**RESEARCH**

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**INSIDE X50**

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