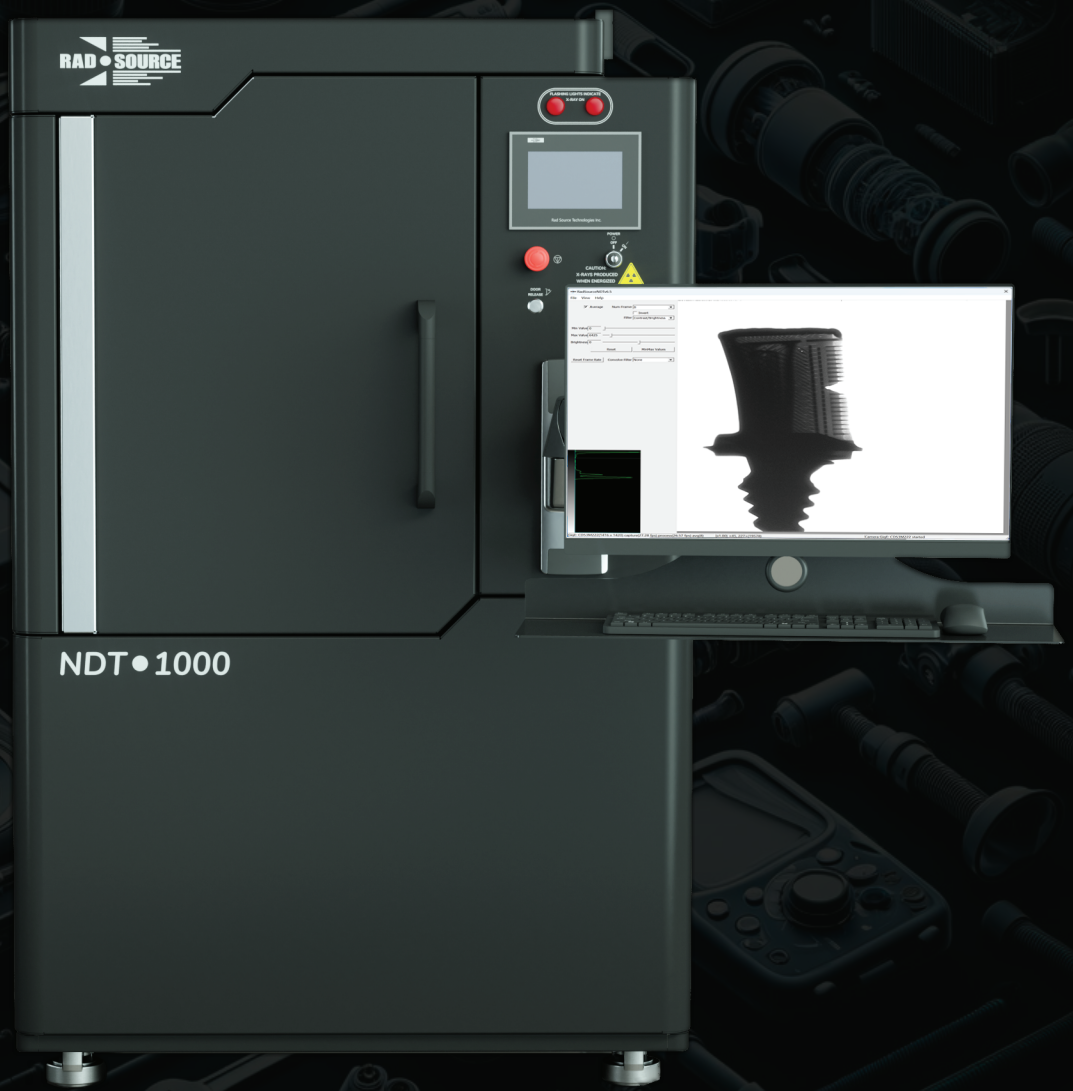
RAD SOURCE NDT

The Science of Seeing the Unseen™

# THE NDT 1000 X-RAY INSPECTION SYSTEM




# PRODUCT BROCHURE

## FLEXIBLE , FAST, POWERFUL

The NDT 1000 has the capability to efficiently inspect materials and assemblies in industries where quality is a top priority, including aerospace, defense, automotive, and electronics. Materials of up to 0.5” thick, including steel piping and welds, can be inspected in one second.

## APPLICATIONS

- Weld and Solder Inspection
- Failure, Void, and Porosity Analysis
- Product Quality Compliance
- Assembly Verification
- Reverse Engineering
- Film Radiography (optional)

## HASSLE-FREE OWNERSHIP - EASY TO USE

- No training necessary
- Compact size and portability
- Castor wheels
- Worry-free maintenance
- Uses a standard 120 Volt outlet
- No external cooling system required

## FEATURES

**High Resolution:**
4K digitizing panel and monitor

**On-Screen Annotation:**
Customizable DICONDE Tags can be added to images

**Image Averaging:**
Noise is reduced by averaging each pixel for up to 8 frames

**Image Filtration:**
Brightness, contrast, inversion, binarize, smooth, sharpen

**Adjustable Magnification:**
Four shelf locations to change the image size

**Measuring Tool:**
Save measurements between two points as part of the image

**File Management:**
Store on hard disc and transfer via Wi-Fi or USB port

Load existing images for manipulation

## OPTIONS

**Automatic Defect Recognition:**
Customized for each customer for material and defect type

**Pass Through Inspection:**
Custom process-control for high-thoughput and inspection results feedback

## DIMENSIONS

**Equipment Dimensions (W x H x D):**
45” x 72.5” x 31”
114 cm x 183 cm x 79 cm

**Internal Chamber Dimensions (W x H x D):**
16.4” x 12.7” x 14.9”
41.7 cm x 32.2 cm x 37.8 cm

**Equipment Weight :**
1,400 lb
635 kg

## IMAGING GUIDELINES

**Imaging Area:** 7.5” x 7.5” / 19 cm x 19 cm (dependent on shelf level)

**Scintillator:** cesium iodide

**Energy Range:** 30-160 kV

**Tube Current:** 1-4 mA

**Focal Spot Size:** 0.5 mm

**Inherent Filtration:** 1.5 mm ultem, 9.0 mm oil, 1.7 mm glass, 0.8 mm beryllium

**Pixel Size:** 152 µm

**Magnification:** up to 1.5x

**Electrical Requirements:** 120 VAC, 10 A

## SAFETY & QUALITY

Rad Source NDT Inspection Systems receive a quality inspection and radiation survey prior to shipment and again at installation.

Rad Source NDT Inspection Systems are manufactured as cabinet X-ray devices and conform to the radiation safety guidelines in US CFR 1020.40

## INSTALLATION & WARRANTY

**Installation:**
Includes radiation survey and on-site training

**12 Month Full Warranty:**
Includes all parts, labor, and travel

**Service Agreement Program:**
Available for purchase within 12 months of installation date

## CUSTOM SOLUTIONS

We can design and build custom cabinets and lead rooms, to image components with various sizes, materials, densities, defect types, or automation requirements.

## SERVICE

Unrivaled X-ray solutions support from a highly trained and responsive global service and support team. We are able to service X-ray systems from all manufacturers.

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Rad Source is a global leader in developing X-ray solutions. Our equipment is utilized in esteemed aerospace centers, key defense institutions, leading automotive factories and global testing service facilities.
Based in Buford, Georgia, USA

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