

# XD7600NT Diamond

X-ray Inspection System

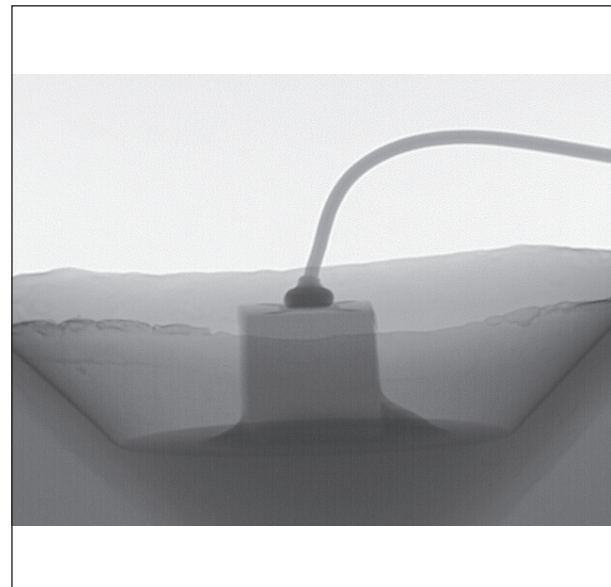
## Ultimate High Magnification X-ray Inspection System

### Advantages

- Nordson DAGE NT100 Maintenance-Free, Sealed-Transmissive X-ray Tube
- Proveable < 0.1  $\mu\text{m}$  Feature Recognition
- 160 kV Tube with up to 10 W Target Power - Always Retains Sub-Micron Ability
- Nordson DAGE 2 Mpixel @ 25fps XiDAT3 Digital Image Intensifier with Real Time Image Enhancements
- Geometric Magnification 2,000 X, System 12,000 X and Total 60,000 X with Digital Zoom
- 29" x 22.8" (736 x 580 mm) Maximum Board Size
- 70° Oblique Views without Loss of Magnification
- AXiS - Active X-ray Image Stabilisation and 24" Primary and Secondary TFT LCD Monitors
- Highest Magnification Imaging and Extended System and Tube Warranty as Standard
- Option:  $\mu\text{CT}$  (3D Inspection) & X-Plane™

Nordson DAGE, the only x-ray company whose focus is on x-ray electronics inspection, offers the Nordson Dage XD7600NT Diamond x-ray inspection system, the ultimate choice for the highest magnification x-ray imaging.

The unique Nordson DAGE NT maintenance-free, sealed transmissive type of x-ray tube, providing 0.1  $\mu\text{m}$  feature recognition and up to 10 W of target power, together with the 2 Mpixel XiDAT3 digital image detector makes this jewel of a system the choice for the highest performance and highest magnification imaging tasks.



Oblique view of LED

The vertical system configuration, with the x-ray tube sitting below the isocentric 'move and tilt' of the detector, all controlled through the simple, joystick-free, 'point and click' operation of the Nordson DAGE Image Wizard Software provides the safe and collision-free inspection required for production applications. All these tasks can be simply and quickly automated from within the standard Nordson DAGE software without the need for programming skills. Optional upgrades include  $\mu\text{CT}$ .

**Crystal Clear X-ray Inspection. Nordson DAGE.**

# XD7600NT Diamond X-ray Inspection System

## Specifications

- Nordson DAGE NT100 sealed-transmissive, filament-free x-ray tube:
  - < 0.10  $\mu\text{m}$  feature recognition 30 - 160 kV for < 4 W target power
  - < 0.95  $\mu\text{m}$  feature recognition when above 4 W target power
  - 10 W max. target power above 110 kV
  - automated tube stabilisation
  - 2 years tube warranty
- 2,000 X geometric magnification (12,000 X system magnification)
- 60,000 X total including digital zoom
- Easy, collision-free, high magnification inspection
  - enable oblique angle views
  - joystick-free, 'point and click' operation
- Maximum board size: 29" x 22.8" (736 x 580 mm) with reduced magnification
- Maximum inspection area: 20" x 17.5" (508 x 444 mm)
- 70° oblique angle views:
  - for 360° around a point of interest
  - isocentric manipulator configuration keeps features in field of view
- XiDAT3 digital image intensifier detector with 1600 x 1200 pixels (2 Mpixels)
  - 25 fps full-frame 'real time' image acquisition
  - real time image enhancements
- 16-bit digital image processing
- AXiS - Active X-ray Image Stabilisation - anti-vibration control
- Two 24" TFT LCD operator display monitors
- Nordson DAGE Image Wizard operating software including:
  - automated and manual component fault analysis including BGA & QF
  - simple to create and use robust automated inspection routines
  - plated through hole (PTH) fill percentage calculation
  - accurate measurement functions
  - automated and manual die attach / area void calculation
  - patented x-ray navigation map for easy fault location
  - simple to use, no complicated joysticks required
- Fully lead-shielded system safety cabinet:
  - providing < 1  $\mu\text{Sv/hr}$  x-ray leakage
  - meets all international standards
- 1 year system warranty

## Options

- $\mu\text{CT}$  choices with system order or as a retro-fit
- X-Plane™ 2
- Joystick control (X,Y or X,Y & Z)
- Barcode reader

## System

- Size: 57" x 67" x 77.5" (w x d x h)
- Size: 1450 x 1700 x 1970 mm (w x d x h)
- System Weight: 1950 kg (4300 lbs)
- Maximum Sample Weight: 5 kg (11 lbs)
- Power: Single Phase 200 - 230Vac, 16A
- Max.Power Consumption: 1000 W Max.
- Air: 4 - 6 bar clean, dry for anti-vibration
- Operating Temp. Range: 10 - 30°C
- Humidity: < 85% (non-condensing)

For more information, please contact your Nordson DAGE regional office or speak with your local Nordson DAGE representative, all of whom are listed on [www.nordsondage.com](http://www.nordsondage.com)

### Americas

+1 510 683 3930 Phone  
[sales@nordsondage.com](mailto:sales@nordsondage.com) Email

### China

+86 512 6665 2008 Phone  
[sales.ch@nordsondage.com](mailto:sales.ch@nordsondage.com) Email

### Germany

+49 7021 950690 Phone  
[sales.de@nordsondage.com](mailto:sales.de@nordsondage.com) Email

### Japan

+81 432 995851 Phone  
[sales.jp@nordsondage.com](mailto:sales.jp@nordsondage.com) Email

### South East Asia

+65 655 27533 Phone  
[sales.sg@nordsondage.com](mailto:sales.sg@nordsondage.com) Email

### Taiwan

+886 2 2902 1860 Phone  
[globalsales@nordsondage.com](mailto:globalsales@nordsondage.com) Email

### United Kingdom

+44 1296 317800 Phone  
[globalsales@nordsondage.com](mailto:globalsales@nordsondage.com) Email

