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Technical Data Sheet

Dage X-ray Inspection System – XD7600NT₅₀₀

Dage NT500 X-ray Tube

- ✓ High Resolution 500nm (0.5µm) feature recognition
- ✓ Power up to 3W, no loss of resolution
- ✓ High Magnification 1500X geometric mag.
- ✓ Sealed-Transmissive Tube filament-free
- √ Guaranteed Minimum Tube Lifetime¹

The unique Dage NT sealed-transmissive type of X-ray tube, the heart of the Dage $XD7600NT_{500}$ X-ray inspection system, supersedes and outperforms the closed and open tube types that are available in earlier systems. The sealed-transmissive tube is the only way to genuinely improve X-ray image resolution whilst still providing true high power and without compromising the resolution and magnification:

Up to 3 W of power at 500 nm feature recognition over 30 - 160 kV

Dage XD7600NT₅₀₀ X-ray Inspection System

- > 1,500 X Geometric Magnification (7,000 X system magnification)
- Easy Collision-Free, High Magnification Inspection

 even at oblique angle views
- ➤ Maximum Board Size / Inspection Area 20" x 17.5" (508 x 444 mm) without oblique views
- Maximum Inspection Area
 18" x 16" (458 x 407 mm) with oblique views
- 70° Oblique Angle Views
 for any location 360° around entire inspection area
- > χiDAT Digital Detector 4" diameter digital image intensifier
- > 2.0 Mpixel Digital CCD Camera
 - 30 frames per second 'real time' image acquisition
- > 16-bit Image Processing
- > AχiS Active X-ray Image Stabilisation
 - external vibration isolation down to 4 Hz
- > 24" Digital Colour Flat Panel, Wide-Screen, LCD Operator Display
- ➤ Second 24" Monitor
 - for extended desktop and Dage Image Wizard software functions
- > Fully Lead-Shielded System Safety Cabinet
 - providing < 1 μSv/hr X-ray leakage

A vertical system configuration with the X-ray tube sitting below the isocentric 'move and tilt' of the detector, provides the collision-free, high magnification inspection required for today's inspection tasks. A secondary monitor is also available for additional software functionality, such as automated Head in Pillow (HiP) analysis and a large navigation map display, or used as an extended desktop for displaying work instructions and many other applications.



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¹ simple, maintenance-free, low cost of ownership, tube exchange policy Specification subject to change without notice

PRE-WARN

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Dage Image Wizard Operating Software

- Easiest to Use X-ray Systems in the Industryintuitive 'Point and Click' operation
- No Complicated Joystick Controlsgiving quick analysis without collision risk
- > Patented X-ray Navigation Map²
 - for easy location, identification and repair of faults
- > Automated Inspection Routines
 - simple creation and use through the Dage Inspection Wizard
- > Automated and Manual BGA Analysis
 - diameters, void percentage, area, roundness
- > Automated QFN Analysis
 - void percentages, open joints
- > Automated and manual Die Attach / Area Void Percentage Calculation
- > HTML Report Generation of Automated Results
- ➤ Pin-in-Hole (Barrel) Fill Calculation
- Automated and Manual Wire Sweep Calculation
- > Distance Measurement Facilities
- > Image Contrast and Enhancement Functions
- > Saving of Images in JPG, BMP or TIFF Formats
- Video Capture
- > Dage Image Wizard simplifies system operation
- **➤** Multi-Language Capability
- > Full System Control tube, optimisation, maintenance
- > Integrated PC runs Windows XP and offering full network availability

Options

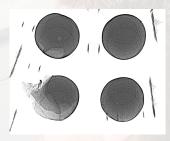
> Automated Head in Pillow (HiP) Analysis for BGA inspections

System Specification

- Footprint 1450 (W) x 1700 (D) x 1970 (H) mm (57" x 67" x 77.5")
- ➤ Weight 1950 kg (4300 lbs)
- ➤ Maximum Sample Weight 5 kg (11 lbs)
- ➤ Power Single phase 200 230 Vac, 16 A maximum
- ➤ Air 4 6 bar clean, dry for anti-vibration control
- ➤ Power Consumption 1000 W maximum
- **→** Operating Temperature Range 10 30°C
- ➤ Operating Humidity Below 85% (non-condensing)











For more information: www.dage-group.com

² EP 2063261