

Technical Data Sheet

Dage X-ray Inspection System – XD7500NT₉₅₀HP

Dage NT950HP X-ray Tube

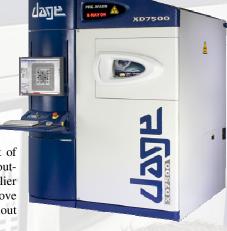
- High Resolution 950nm (0.95µm) feature recognition
- High Power up to 10W, no loss of resolution
- High Magnification 1500X geometric mag.
- Sealed-Transmissive Tube filament-free
- **Guaranteed Minimum Tube Lifetime**¹

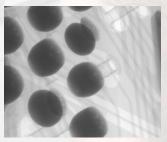
The unique Dage NT sealed-transmissive type of X-ray tube, the heart of the Dage XD7500NT₉₅₀HP X-ray inspection system, supersedes and outperforms the closed and open tube types that are available in earlier systems. The sealed-transmissive tube is the only way to genuinely improve X-ray image resolution whilst still providing true high power and without compromising the resolution and magnification:

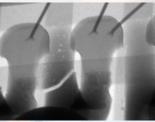
4 – 9 W of power at 950 nm feature recognition over 40 – 100 kV Up to 10 W of power at 950 nm feature recognition over 110 - 160 kV

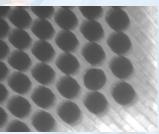


- > 1,500 X Geometric Magnification (7,000 X system magnification)
- **Easy Collision-Free, High Magnification Inspection** - even at oblique angle views
- **Maximum Board Size / Inspection Area** - 20" x 17.5" (508 x 444 mm) without oblique views
- Maximum Inspection Area - 18" x 16" (458 x 407 mm) with oblique views
- 70° Oblique Angle Views
 - for any location 360° around entire inspection area
- > \(\gamma \text{iDAT Digital Detector 4" diameter digital image intensifier \)
- > 1.3 Mpixel Digital CCD Camera
 - 25 frames per second 'real time' image acquisition
 - Optional upgrade to 2.0 Mpixel camera / 24" monitor
- > 16-bit Image Processing
- Passive X-ray Image Stabilisation
- > 20" Digital Colour Flat Panel, Wide-Screen, LCD Operator Display
- Optional Second 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. An optional upgrade to a 2.0 Mpixel camera is available. A secondary monitor is also optionally 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.

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

PRE-WARN

Nordson DAGE

Dage Image Wizard Operating Software

- Easiest to Use X-ray Systems in the Industryintuitive 'Point and Click' operation
- No Complicated Joystick Controls
 giving 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

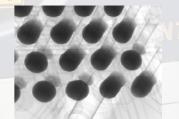
Options

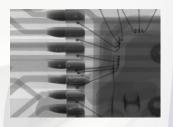
- > Full CT Functionality
 - with system order or as a retro-fit (see separate data sheet)
- > 2.0Mpixel camera / 24" monitor (8,700 X system magnification)
- > Secondary monitor
- ➤ Automated Head in Pillow (HiP) Analysis for BGA inspections³

System Specification

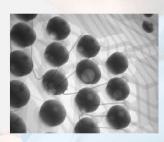
- ➤ Footprint 1450 (W) x 1700 (D) x 1970 (H) mm (57" x 67" x 77.5")
- ➤ Weight 1950 kg (4300 lbs)
- ➤ Maximum Sample Weight 5 kg (11 lbs)
- ➤ Power Single phase 200 230 Vac, 16 A maximum
- ➤ Power Consumption 1000 W maximum
- **➢** Operating Temperature Range − 10 − 30°C
- > Operating Humidity Below 85% (non-condensing)

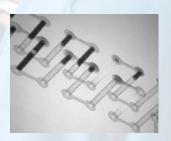
For more information: www.dage-group.com











² EP 2063261

Requires secondary monitor
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