



Xi3400 Automated X-ray Inspection System

Nordson DAGE's versatile Xi3400 Automated X-ray Inspection System (AXI) offers complete inspection of solder joints and other critical hidden features found in electronic assemblies, PCBs and packaged semiconductors. Ideal for in-line or off-line operation, the Xi3400's innovative algorithms enable fast and reliable automated inspection and real-time monitoring of critical process information.

By leveraging the automation software techniques developed at Nordson YESTECH and combining with Nordson DAGE hardware technology, including the patented Digital Tomosynthesis Technology, the Xi3400 acquires multiple images in different slice heights in one inspection cycle. The images can discriminate between components on the top and bottom slices of double sided boards for unimpeded automated inspection.

The utilization of standard package libraries simplify training and ensure program portability across

manufacturing lines. Newly available image processing technology integrates several techniques and inspection algorithms, to provide complete inspection coverage with an extremely low false failure rate.

The Xi3400 is the latest addition to Nordson's comprehensive range of test and inspection equipment for electronic device manufacturers and related applications.

Advantages

- Automated 2D & 3D inspection
- Variable magnification
- High defect detection
- Low false calls
- Fast throughput
- Quick set-up



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Specifications:

Inspection Capabilities

Modes	2D and 3D operation
Maximum Board Size:	508mm x 450mm (20" x 18")
Clearance:	up to 50mm (2") top & 25mm (1") bottom
Minimum Component Size:	01005
Defects Detected:	Part: position, missing, wrong, skew, tombstone Lead: bent, lifted, bridging Solder: open, insufficient, short, solder balls BGA: shorts, voids, position, missing ball

Software

Data Requirements:	Pick and place data, CAD x-y data
CAD Translation Package:	MS Excel, CircuitCAM, Unicam
Programming Skill Level:	Technician or Operator
Operating System:	Windows 7 professional 64 Bit
Off Line Software:	Optional - Rework, Review, and Program Creation
SPC Software:	Optional - Real-time local and remote monitoring of the first Pass yield, defect trends, and machine utilization

Hardware

X-ray Tube:	Maintenance free, sealed reflection target, 5 micron spot size 100 Kv, 20-watt max. output
Colour Camera:	Used for navigation and barcode reading

Facilities:

Power:	200/230 VAC Single Phase 50 /60 Hz 15 Amps
Footprint:	1500mm x 1900mm x 1700mm (59" x 75" x 67")
Weight:	2,600 Kg (5,732 lbs)
Machine Installation:	< 1 Hour
Compressed Air:	2 CFM, 80 psi

Safety

Fully lead-shielded system safety cabinet: – providing
< 1µSv/hr x-ray leakage – meets all international standards

For more information,
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