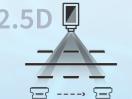


Dynamic Planar CT

The next generation of high-quality 3D inspection, employing high-speed detector motion (3 sec/FoV)



Off-Axis Oblique Angle

Off-axis inspection (≤30°) via detector movement for high performance, oblique angle imaging



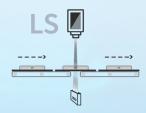
Transmission

Orthogonal twodimensional imaging with moveable sample tray and a fixed detector position



Slice-Filter-Technique™

Patented inspection technique for golden sample comparison and background removal for analysis



Line Scan

Continuous scanning using a line detector with real time stitching and analysis of large area X-ray images



X# Series

Automated X-ray Inspection

The X# Series provide an inline or island automated X-ray system platform, covering a wide range of Automated X-ray Inspection (AXI) applications, with three dedicated system configurations to serve the Ultra-High Power (UHP), Surface Mount Technology (SMT) and Final Assembly, Test and Pack (FATP) markets.

UHP - Single DBC and multi-layer IGBT inspection

SMT - PCB Solder Joint inspection

FATP - Partially assembled, fully assembled or packaged electronic products inspection

The X# Series platform is available with up to 5 advanced image acquisition modes, ensuring you have the optimal setup for all your applications and inspection requirements.



X# Series Automated X-ray Inspection

Features & Benefits

Advanced Hardware Technologies

- Maintenance free, sealed microfocus X-ray source
- 5-axis programmable motion
- High-resolution, high-speed digital Flat Panel Detector
- Low dose radiation filters for dose sensitive devices

MIPS Software & Inspection Tools

- 16-bit image processing
- Automatic grey-level and geometric calibration
- Teach&Go for fast and easy inspection creation
- Proprietary advanced algorithm library
- Machine learning based defect classification
- Multi-layer slice extraction and analysis
- Software based warpage compensation available

Traceability and Connectivity

- Automatic barcode read and inspection selection
- Full traceability via MES and SECS/GEM interfaces
- IPC-CFX-2591, IPC-Hermes-9852 and Industry 4.0 ready

Applications

Solder Joint Inspection

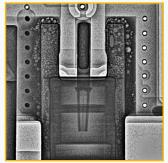
algorithm library provides comprehensive solder joint inspection for all standard SMDs and a wide range of Power Hybrids including shunt resistors, capacitors, diodes and multi-layer IGBTs. These sophisticated inspections include solder coverage defect analysis for voiding, bridging, insufficient, missing, head-innon-wetting, lifted lead, heal and toe, foreign material and shorting.

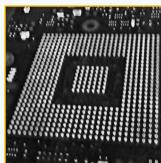
Final Assembly, Test and Pack

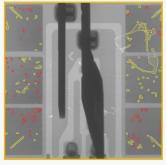
Final product checking to evaluate assembly condition, absence of foreign material, presence of all required items and correctness of packing. Including mobile phones, wearables, personal audio and portable computing devices

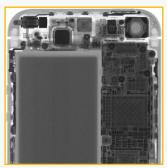
Dynamic Planar CT

Ultra high-resolution 3D inspection with incredible speed and quality













For more information, speak with your Nordson representative or contact your Nordson regional office

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Test & Inspection

Our proprietary advanced pillow, inside/outside meniscus,

(e.g. tablets and laptops).

