

X-Plane™* Analysis

X-ray Inspection System Option



X-ray Inspection in Any Plane Without Cutting the Board

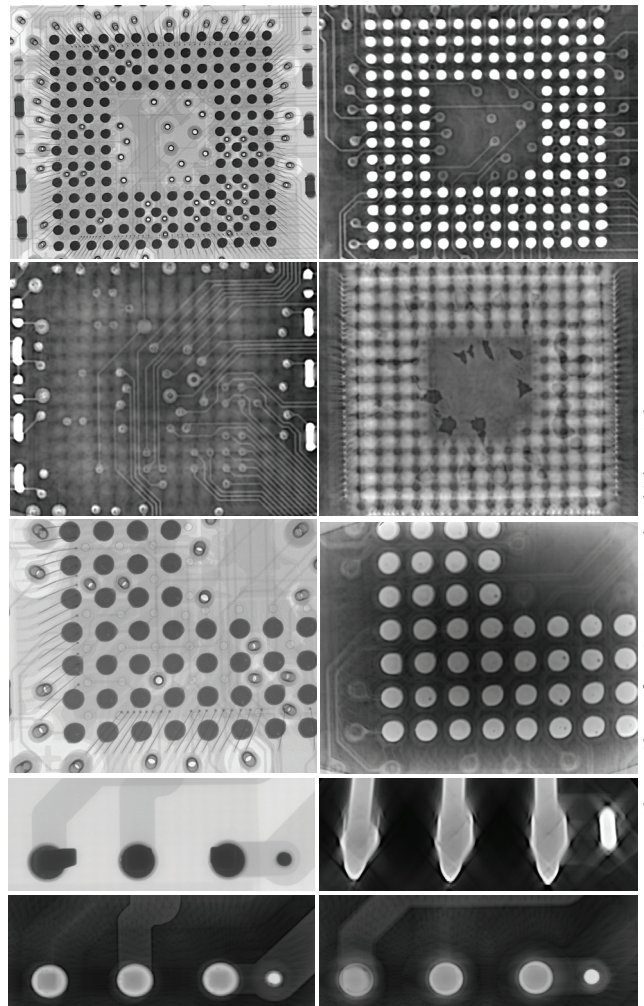


Advantages

- View Individual 2D Slices within a Sample from Top-to-Bottom, Front-to-Back, Left-to-Right and Any Plane in Between
- Use Anywhere in an 18" x 16" (457 x 406 mm) Inspection Area
- No Need to Cut or Destroy the Board
- Works at High Magnifications
- Available on Nordson DAGE Diamond FP, Diamond, Ruby FP and Ruby X-ray Systems

Applications

- Showing position and size of voids at joint interfaces and other locations within BGA, CSP, QFN, LGA, etc.
- Identifying Head on Pillow (HoP) and open joints
- Separating and inspecting the different layers within a Package on Package (PoP) or MCM
- Removing obscuring detail caused by side 2 features when needing to inspect side 1 components
- Investigating the quality and fill of thru-hole joints and vias
- Identifying tilted components and board warpage
- Analysing connectors
- Examining the tracks in individual board layers
- Making virtual micro-sections



2D X-ray Images & X-Plane™ Slices of a BGA on a Board and Thru-Hole Joints

Crystal Clear X-ray Inspection. Nordson DAGE.

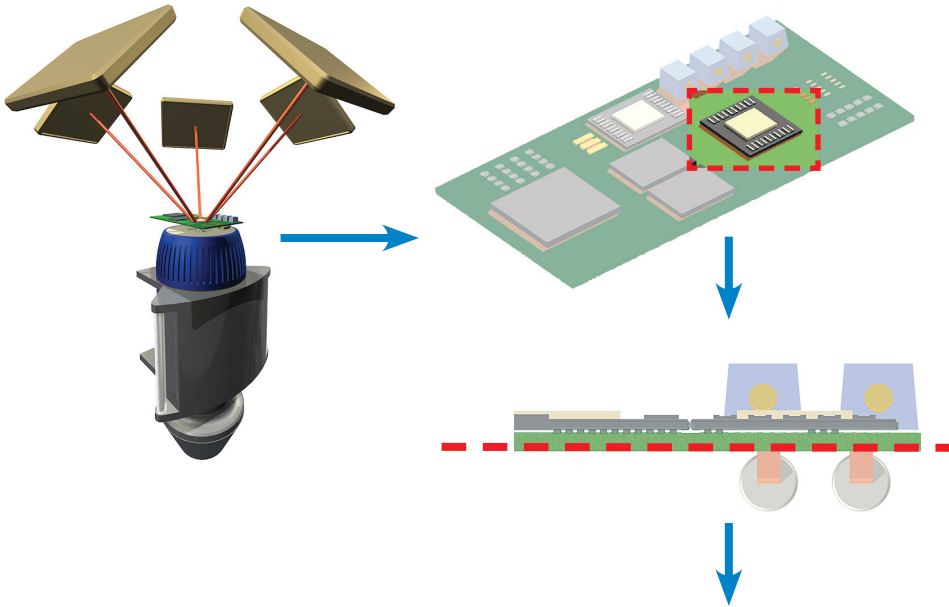


* Patent Applied for



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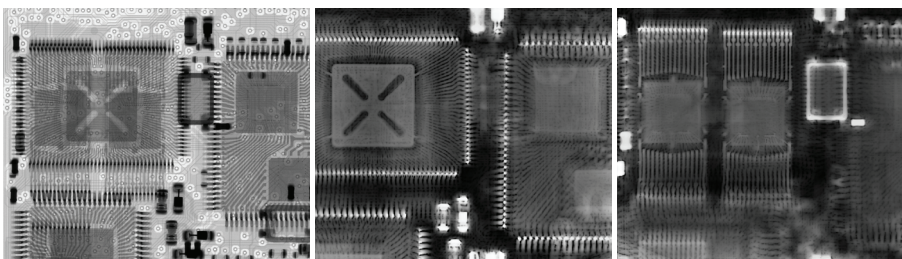
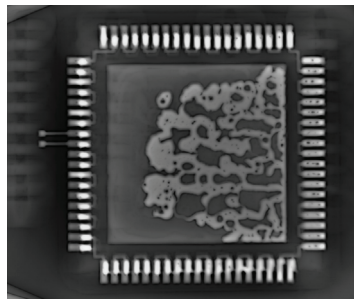
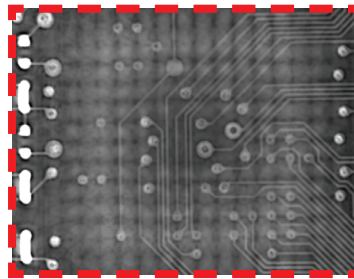
Description



X-Plane™ is quick, simple and easy to use. The board is placed in the Nordson DAGE X-ray inspection system and X-ray images are taken 360° around the region of interest. Once image acquisition is complete, proprietary, and patent applied for, tomosynthesis produces a detailed 3D model which can be sliced and analysed in any plane using the supplied X-Plane™ Viewer.

X-Plane™ uses the superior, sub-micron feature recognition 2D X-ray images, that Nordson DAGE X-ray systems always provide.

X-Plane™ technology provides high resolution, high magnification CT functionality anywhere on the board - without cutting the board.



2D X-ray image of a double-sided board with X-Plane™ slices showing the two sides separately

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

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