

## \* Patent Applied for

# X-Plane<sup>®\*</sup> Analysis

X-ray Inspection System Option

## X-ray Inspection in Any Plane Without Cutting the Board

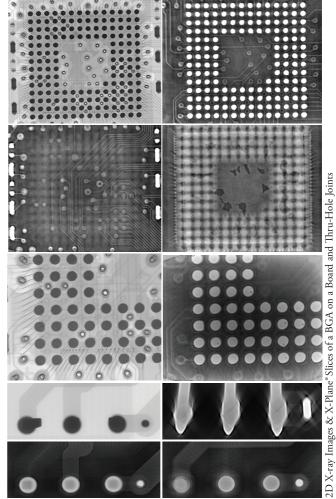
### **Advantages**

- 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
- Measure voiding and BGA solder ball size on image slices

### **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





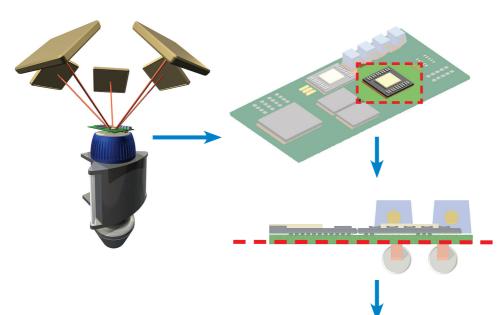
Crystal Clear X-ray Inspection. Nordson DAGE.





## X-Plane<sup>®\*</sup> Analysis x-ray Inspection System Option

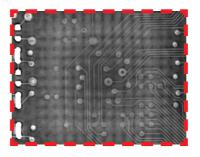
**Description** 

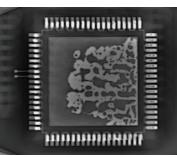


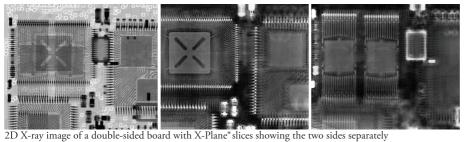
X-Plane® is quick, simple and easy to use. The board is placed in the Nordson DAGE X-ray inspection system and X-ray images are taken 360° around the region of interest. Once image acquisition is complete, proprietary, and patent applied for, tomosynthesis produces a detailed 3D model which can be sliced 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<sup>®</sup> technology provides high resolution, high magnification CT functionality anywhere on the board - without cutting the board.







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

#### Americas

+1 510 683 3930 Phone sales@nordsondage.com Email

#### China

+86 512 6665 2008 Phone sales.ch@nordsondage.com Email

#### Germany

+49 7021 950690 Phone sales.de@nordsondage.com Email

#### Japan

+81 3 3599 5920 Phone sales.jp@nordsondage.com Email

#### **South East Asia**

+65 6796 9500 Phone sales.sg@nordsondage.com Email

#### Taiwan

+886 2 2902 1860 Phone globalsales@nordsondage.com Email

#### **United Kingdom**

+44 1296 317800 Phone globalsales@nordsondage.com Email







Nordson DAGE

25 Faraday Road Rabans Lane Industrial Area Aylesbury, Buckinghamshire HP19 8RY, UK +44 (0)1296 317800 www.nordsondage.com

Specification subject to change without notice e & or

Copyright © Nordson DAGE 2014 \* Patent Applied for DS-XR-XP-270618