

Prove Your
Quality



JADE Plus

Manual X-ray Inspection

www.nordson.com/TestInspect

Nordson
Test & Inspection

Nordson Test & Inspection

Founded in 1954, Nordson Corporation is a market leading industrial technology company with annual revenues of over \$2.1 billion and more than 7,500 employees worldwide.

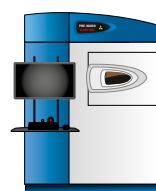
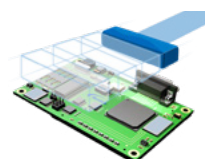
Nordson Test & Inspection offers its SMT & Semiconductor customers a robust product portfolio, including Acoustic, Optical and both Manual and Automated X-ray Inspection systems, X-ray Component Counting systems and Semiconductor measurement sensors. Nordson Test & Inspection is uniquely positioned to serve its customers with best-in-class precision technologies, passionate sales and support teams, global reach, and unmatched consultative applications expertise.

Exceptional support
from Nordson's worldwide network

MXI Products

Making the Invisible, Visible

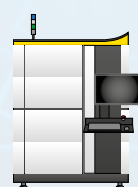
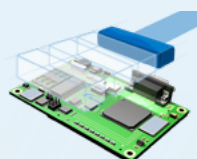
Manual
X-ray Inspection



AXI Products

High Speed High Flexibility

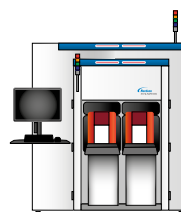
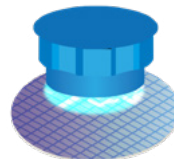
Automated
X-ray Inspection



AXM Products

Measuring the Invisible

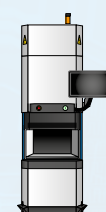
Automated
X-ray Metrology



CC Products

Count On Us™

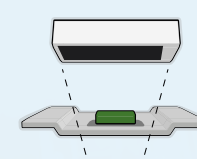
X-ray Component
Counting



XT Products

High Speed High Resolution

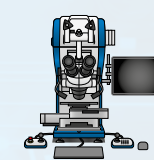
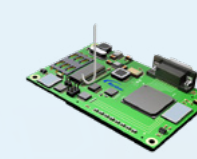
X-ray
Technologies



BT Products

Test Your Design

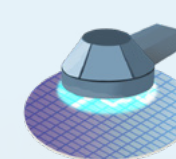
Bondtesters



AOI Products

Proprietary Advanced Technology

Optical Inspection
& Metrology



WS Products

Improve Your Yields

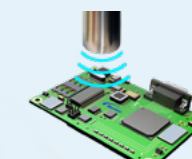
Semiconductor
Metrology Sensors



AMI Products

Qualify Your Design

Acoustic
Inspection



Your Quality Jade Plus

Prove Your Quality

Measurement

Jade Plus two gives a unique insight into your product quality. Advanced measurement functions, included as standard, turn X-ray images into quantitative data that you can use to spot emerging quality trends early, before it's too late.

Compliance

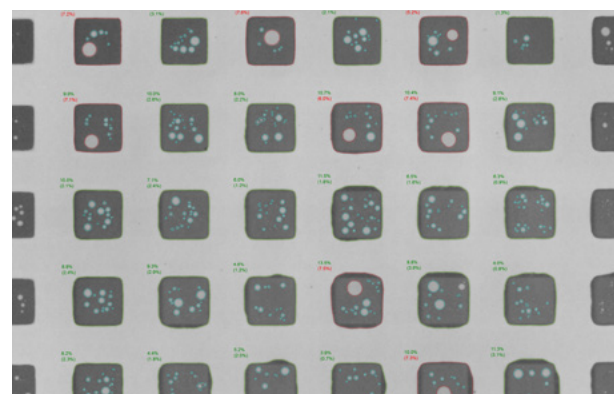
In-built tools for dimension measurement, BGA void analysis, bump diameter and roundness and through hole filling make quick work of finding and characterizing defects, helping you achieve IPC-A-610 and IPC-7095 compliance.

0.95 μm Resolution

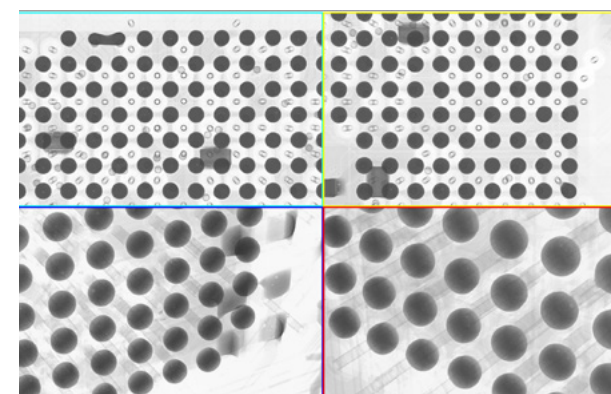
0.95 μm resolution is the difference between seeing a micro-crack in a passive component, and missing it. Jade Plus has the resolution required to perform accurate void analysis inside micro BGA balls.

Complete Proof

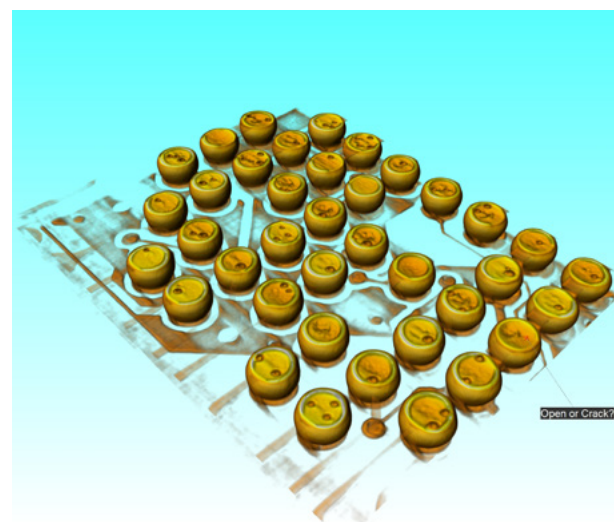
3D visualization gives the clearest proof of product quality. The optional μCT accessory turns 2D X-ray images of small components into full 3D models.



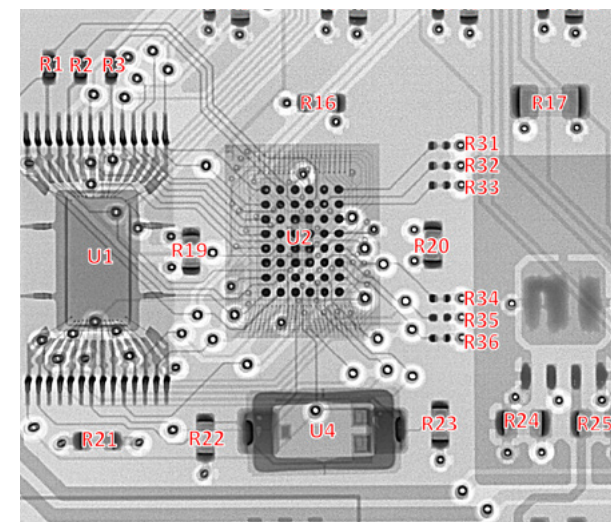
Screen for solder pad defects quickly with automated voiding measurement.



4-way split screen view makes it easy to compare components and evaluate views from different angles.



3D visualization of BGA solder balls using optional μCT accessory.



See what you are inspecting and move to parts quickly with the Component Location feature.

Fast Throughput

Automated Inspection Routines

Save time inspecting batches of boards with automatic inspection routines. Program a routine once, then simply insert the board and click to go. Reports, generated in seconds can be saved locally or on a central database.

2 x Oblique Angles

Finding quality defects is fast and easy thanks to the unique double oblique axis geometry. See every detail from all sides at high magnification, without having to rotate the sample. You will never lose sample orientation.

Easy Navigation

Never lose your way with Component Location. Move straight to any device on the board with a single click. Know what you are looking at as you move around with the live part ID viewer overlay.

Open Tube Technology

Jade Plus features an open X-ray tube with replaceable tungsten filament allowing 0.95 µm features to be resolved at up to 3 W power.

Easy Maintenance

The operational life of tungsten filaments is short and the individual life is unpredictable. The open tube is designed with maintenance in mind so you can be up and running fast, whenever the filament defocuses or expires.

“As New” Performance

The filament fade associated with Tungsten filaments means image quality will degrade over time. However, you can experience “as new” performance at any time by simply swapping in a new filament.

Training Included

The X-ray radiation tube is at the heart of the machine and working on it can be daunting. Nordson Test & Inspection provide full operator training covering how to power down the tool, enter the cabinet safely and best practices to minimize the risks of contaminating or damaging the tube during filament changes.

2 x Oblique Angles

Nordson unique double oblique angle detector geometry is the fastest way to check for defects that may only be visible from specific viewing angles.

VR4 Open Tube

4th generation open tube technology is perfect for looking inside electronics samples at micron level resolution.



Gensys® Software

Developed specifically for electronics inspection, Gensys wraps up comprehensive measurement tools and automation into an intuitive point-and-click platform that’s quick to learn, so you can be at maximum productivity sooner.

JADE Plus	
Tube technology	Open transmissive
Filament technology	Limited life tungsten filament
Maintenance free	No: regular filament and pump servicing required
Maintenance training	Provided during commissioning
Performance	“As new” image quality following filament change
Power	Limited to 3W

Specifications at a Glance

X-ray Tube	Open Transmissive
Feature recognition	0.95 μm
Tube target power	3 W
Voltage	30 - 160 kV

Detector	AspireFP™ Flat Panel Detector
Resolution	1.33 MP
Frame rate	10 fps
Digital image processing	16 bit

Inspection	
Software	Gensys® X-ray Inspection Software for Windows 10
Operation	Mouse point-and-click (joysticks optional)
Oblique angle view	2 × 65° - 360° around point of interest
Inspection area	510 x 445 mm (20 x 17.5")
Magnification	Up to x 7,500
Display	Single 24" WUXGA 1920 x 1200

Installation	
Footprint (W x D x H)	1.45 x 1.70 x 1.97 m
Weight	1,950 kg (4,300 lbs)
Air supply	Not required
X-ray safety	< 1 μSv / hour Meets all international standards

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

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