

QUADRA™ 7

X-ray Inspection System

The Complete X-ray Inspection Solution

Quadra™ 7 represents the cutting edge of X-ray inspection performance.

6.7 MP ultra high quality images are displayed at full one-to-one resolution over two 4K UHD monitors, ensuring you see the clearest features today, and for all your products in the future.

See the Finest Details

QuadraNT™, Nordsons latest generation X-ray source ensures images are bright, clear and stable, allowing features down to 100 nm to be resolved.



Simplicity as Standard

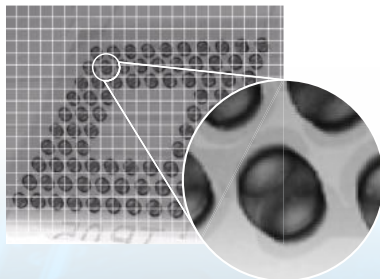
Gensys™ proprietary control and measurement software integrates advanced image acquisition and processing functions into an intuitive user interface so both routine measurements and advanced, high resolution investigations can be performed with ease.

Maintenance Free

The QuadraNT X-ray source uses proprietary filament free technology, so regular preventative maintenance visits are not required, reducing your downtime and running costs.

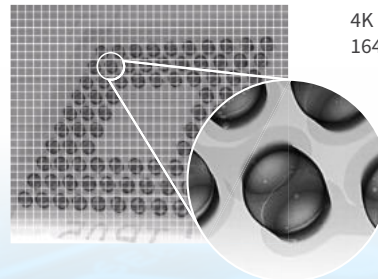
HD

Full HD 1920 x 1080
94 pixels per inch.



4K UHD

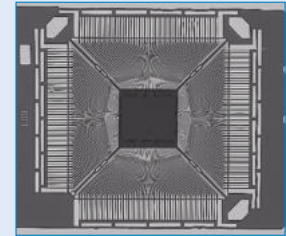
4K Ultra HD 3840 x 2160
164 pixels per inch.



Seeing is Believing™
QUADRA

Specifications at a Glance

Options	
X-Plane®	View sample slices without additional CT hardware
Visualization for X-Plane	Create 3D models from X-Plane data
μCT	Create high resolution 3D models with the μCT sample stage
Heated Stage	Simulate reflow oven conditions, view solder processes in real time
Reel Handler	Inspect components packaged on tape and reel
HDR	High Dynamic Range Imaging enables you to see defects in very bright and very dark areas of the same image
Joysticks	For joystick navigation and zoom
Barcode Reader	Track samples easily
Filtering Tray	Reduce sample X-ray dose
Thin Sample Tray (included)	Acquire clearer images of thin samples at low kV
Wafer Holders	For handling 300 mm and 200 mm wafers



Lead frame: High dynamic range makes it easy to identify wire bonds, voids and cracks.

QuadraNT™ X-ray Tube	
Type	Filament free transmissive
Feature Recognition	0.1μm (0.3 μm above 10 W)
Max. Power	20 W
Voltage	30-160 kV

Aspire FP™ Detector	
Resolution	6.7 MP
Frame Rate	30 fps
Pixel Pitch	50 μm
Digital Imaging Processing	16-bit

Inspection	
Oblique Angle View	2 × 70° - No sample rotation required
Anti Vibration	AXIS - Active X-ray Image Stabilization
Display Resolution	164 PPI
Inspection Area	510 x 445 mm (20 x 17.5")
Geometric Magnification	2,500x
Total Magnification	68,000x
Display	Twin 27" 4K UHD 3840 x 2160 on Fully Flexible Arm Mount

System	
Footprint	1570 W x 1500 D x 1900 H mm
System Weight	1950 kg (4300 lbs)
Power Supply	Single phase 200-230 VAC, 50/60 Hz, 16A
Typical Power Consumption	1kW
Air Supply	5-8 bar clean, dry for anti-vibration
Operation Temperature	10-30°C
Humidity	<85 % (non-condensing)
Operation	Mouse point and click
Operating System	Windows 10 64-bit
X-ray Safety	<1 μSv/hr Meets all international standards

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