



QUADRA 7[®] Pro

Manual X-ray Inspection

The Complete X-ray Inspection Solution

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

6.5 MP ultra high quality images are displayed at full one-to-one resolution over one single curved ultrawide monitor, ensuring you see the most modern features sharply and in all lucidity.

www.nordson.com/TestInspect


Nordson
TEST & INSPECTION

Pioneering Software

Get working quickly with Revaluation™ control software which features simple intuitive menus and controls. Personalize and store individual operators screen layouts for smoother workflow. Customize filtering and image enhancements to suit your applications needs. Utilize the easy point & click controls to analyze defects fast and produce automated inspection routines.

Optimal Clarity

Designed in-house by a team of semiconductor experts Onyx™ delivers state-of-the-art performance. Using world-class pixel specifications for low dose sensitivity & high saturation dose. Onyx™ has higher frame rates and lower noise, giving you faster clearer images.

Onyx HL Detector	
Resolution	6.5 MP
Frame Rate	25 fps
Effective Pixel Size	50 μm
Active Area (mm ²)	16000

QuadraNT™ X-ray Tube	
Type	Mk4 Dual Mode 20W
Feature Recognition	<100nm (at less than 10W)
Max. Power	20 W
JIMA	0,5 μm (across 0.5W to 20W power range)
Voltage	30-160kv

Inspection	
Oblique Angle View	2 × 70° - No sample rotation required
Anti Vibration	Active
Inspection Area	510 x 445 mm (20 x 17.5")
Geometric Magnification	x750 + Digital zoom (with options)
Image bit depth	16-bit
Display	40" Ultra Wide Monitor (5120 x 2160)

Unique patented technology

QuadraNT® is the powerhouse of Quadra Pro. Nordson's latest generation X-ray source gets another enhancement with patent-pending, automatic Dual Mode in the Quadra 7 Pro. The tube automatically switches between two modes:

- High resolution mode ideal for sensitive, semiconductor samples
- High flux mode essential for dense, thicker samples

The benefit of Dual Mode is crystal clear images to spot defects in more detail than you have seen before! The best-in-class X-ray tube maintains its 10-fold brightness and improved stability over conventional tubes and bests them again with smaller spot size at any voltage. The results you can see for yourself.

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

Options	
X-Plane Pro®	View sample slices without additional CT hardware
μCT	Create high resolution 3D models with the μCT sample stage
Barcode Reader	Track samples easily
Joystick	USB Joystick Module
Filtering Tray	Reduce sample X-ray dose
Wafer Holders	For handling 300 mm and 200 mm wafers

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

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