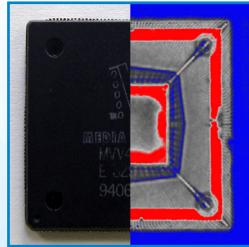
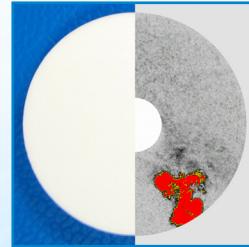


PCBA - Circuit board delamination and cracking.



Semiconductor - Die attach and encapsulation quality control.



Materials - Voids and delamination in composites.



AMI

GEN⁷™

Acoustic Inspection

Our most versatile C-SAM instrument ever!

The Gen7 C-SAM inspection system is the latest generation in Acoustic Micro Imaging.

Built on the advancements made by its predecessors, the Gen7 delivers the most advanced hardware ever available. The advanced hardware allows for new features and analysis that can now be completed faster than ever before.

Gen7 Features

- The industry's best dual pulsers provide the ultimate in image control and gain.
- Impressive image detail with dual 28" 4k monitors.
- Do more with advanced user interface Sonolytics 2™ for Windows 11®.
- Better results with up to four times the acquisition rate.
- Scan larger parts with a 23% greater scan area.
- Faster acquisition times with five individual motors.

Advanced Features

Advanced features such as PolyGate, SonoSimulator, Virtual Rescanning Mode (VRM) and Frequency Domain Imaging (FDI) add value and confidence. With its large, easy access illuminated scanning area, the Gen7 has the capability to efficiently

scan everything from a small part up to 350mm sized parts.

Leading Innovations

In addition to being packed with leading innovations, the Gen7 was designed with the user in mind. Its ergonomic features make it comfortable and convenient to use. The new Sonolytics 2 is an advanced operating software with new, even more intuitive operator interface menus which help maximize results, while saving operator time.

Unique Patented Technology

The Gen7 is truly the most advanced acoustic microscope, delivering a package of technology, ergonomics, and advanced Nordson TEST & INSPECTION developed features that cannot be found anywhere else.

Inspection Modes		Operating System	
Image Capture	Easily Capture 100 images simultaneously with Visual PolyGate™	Sonolytics 2™	Easy to use operating environment for Windows® 11. Direct online support for diagnostic and application assistance.
Image	Create informative images with customizable color mapping schemes	SONOLINK™ Customization	Provides user application support.
Flexible scanning modes		System	
	A-Scan displays the transducer signal B-Scan provides a cross-sectional image C-Scan is a two dimensional plane image Bulk Scan reveals defects in uniform materials Multi-Scan generates multiple images at different levels Surface Scan shows defects at the surface Loss of Back Echo (LoBE) reveals continuity defects Nordson Test & Inspection exclusive Q-BAM™ (Quantitative B-Scan Analysis Mode) is a focused cross sectional view of a sample THRU-Scan (Through transmission Image) an optional shadowgraph view through the sample Simultaneous Thru-Scan and Reflection (STaR) an optional feature that generates both a Thru-Scan image and reflection images in one pass Simultaneous ASF and Reflection (SASFaR) option allows two modes in one scan	Accurate images	With patented balanced scanner. Patent 7,584,664 B2
		Repeatable positioning	Utilizing a scan tower connected to the sample's position and XY and Z axis precision of ± 0.5 microns.
		Capacity	Scan a 350 mm x 350 mm sample with an adjustable Z height of 170 mm vertically.
		Scanner motors	Five High Speed Scanner motors for the fastest image acquisition time.
		High Resolution	Greater than 1 Gigapixel.
		Pulser/Receiver	500 MHz bandwidth for transducers up to 300 MHz.
		dB	95 dB Gain selectable in 0.5 dB steps.
		Transducers	10MHz to 300MHz.
		Digital Gating	Selectable from 1 to 10,000 ns.
		TOF	Precise selectable TOF in 10ns steps.
		AIPD	Acoustic Impedance Polarity Detector (AIPD displays simultaneously both polarity and amplitude information. Patent 4,866,986
		Industrial rackmount Intel Core® i7-7700 computer.	
Facility Requirements			
	Dimensions	L 248 cm x W 158 cm x H 186 cm	
	Weight	610kg approximately	
	Power	90VAC to 250VAC Single Phase 50/60Hz	
	Flow Rate	DI Water Flow Rate 15 lpm.	
Optional Features and Equipment			
	WaterFall™	Non-Immersion technique.	
	WaterPlume™	Inverted Non-Immersion technique.	
	THRU-Scan™	A through transmission image.	
	Degassification	Extracts trapped gases to reduce bubbles that can cause interference.	
	Water Heater	For optimum high frequency performance.	
	QDZ™	Quantitative Dynamic Z mode follows the surface contour to maintain focus across warped surfaces.	
	Universal wafer fixture	Precisely holds 1" to 300mm wafers.	

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

Nordson Test & Inspection Europe
ti-sales-eu@nordson.com

Nordson Test & Inspection SEA
ti-sales-eu@nordson.com

Nordson Test & Inspection Africa
ti-sales-eu@nordson.com

Nordson Test & Inspection Americas
ti-sales-us@nordson.com

Nordson Test & Inspection China
ti-sales-cn@nordson.com

Nordson Test & Inspection Japan
ti-sales-jp@nordson.com

Nordson Test & Inspection Singapore
ti-sales-sg@nordson.com

Nordson Test & Inspection Taiwan
ti-sales-tw@nordson.com

Nordson Test & Inspection Korea
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