



# Success Story – Medical

Application Story

## Type of Customer

Our customers are major suppliers of medical equipment ranging from hearing aids to pacemakers.

## Our Customer's Requirements

The level of dependence on technology in today's healthcare is enormous, and optimal performance is essential. The size of boards and components, combined with a **zero-escape, high defect detection rate**, led these companies to seek an **automated inspection solution** with **low operator intervention and maintenance times, tight process control**, and a high level of **traceability**, including **accurate barcode** reading at the component level. A particularly challenging requirement was the need to **read barcodes** on the top of **tall components** to ensure part identity. Another factor driving the need for increased inspection accuracy was that the price of components in this industry is much higher than in others. **Catching defects earlier** in the manufacturing process can yield savings while at the same time **improve product quality** and reliability.

## Our Solution –

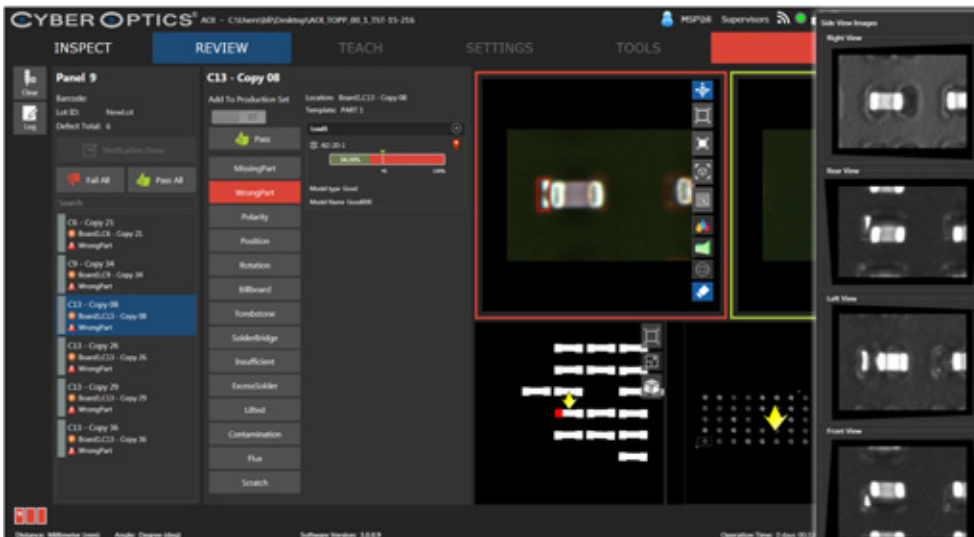
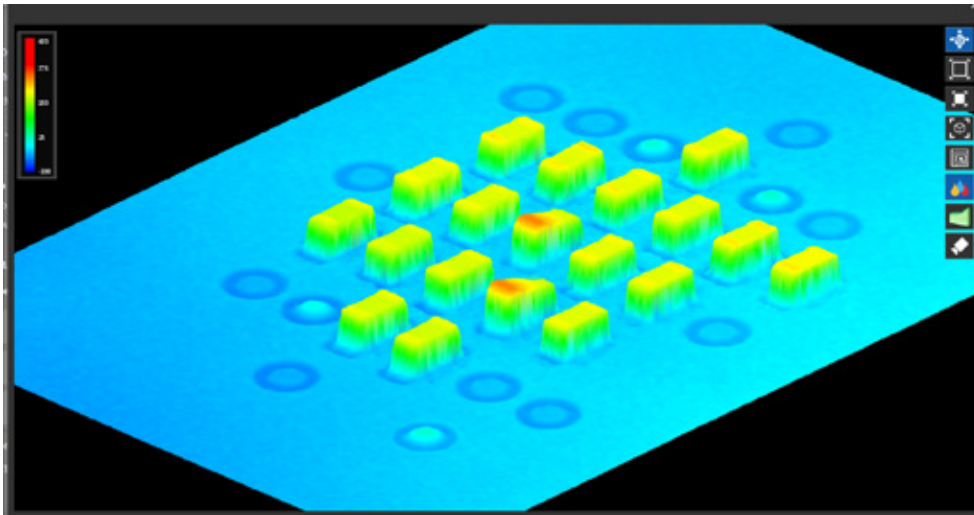
## The Nordson SQ3000™ AOI System

**Automating the inspection process** with the SQ3000 provides a solution that monitors and traces every component's quality. It also **inspects the fit** of each component and **ensures the integrity of every connection** using **3D inspection**. Inspecting **components of different heights** is not a problem, and text, numbers and barcodes can be read and **automatically checked against specifications**. The SQ3000's robust technology delivers the **lowest escape rates** among automatic optical inspection (AOI) systems on the market, while its inspection and measurement algorithms achieves a **high level of accuracy and repeatability**. The system's **ultra-high-resolution and proprietary sensor** is specifically designed for these applications. The SQ3000 also includes unique Multiple Reflection Suppression (MRS) technology that **mitigates measurement inaccuracies** arising from small and **shiny surfaces** found on very small dense boards. Each of these factors drives quality assurance up, and overall costs down.



## The Result

All of the customers' specifications were met. Operator costs were reduced; process control was tightened, and a high level of traceability achieved, thanks to component-level barcode verification. The SQ3000 made a major impact on customers' existing overall quality control processes, which subsequently increased the satisfaction levels of their customers.



For more information on Nordson Test and Inspection products, services, or solutions, visit our website at [www.nordson.com/TestInspect](http://www.nordson.com/TestInspect)

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

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