



AOI



AI AutoProgram for AOI Software

Auto segmentation of components at the press of a button with AI

Auto Programming enhances you recipe-generating and minimizes operator interaction by segmented components automatically and indicating any that fail to segment.

Nordson Intelligence AI AutoProgram simplifies the inspection increasing the speed accuracy of your result, by removing operator decision inconsistency and reducing cycle time.

Delivering significant throughput improvements and detection capabilities not possible through traditional approaches. Nordson Intelligence for AOI software provides users the autonomy to enhance their inspection results.

AutoProgram Evolved

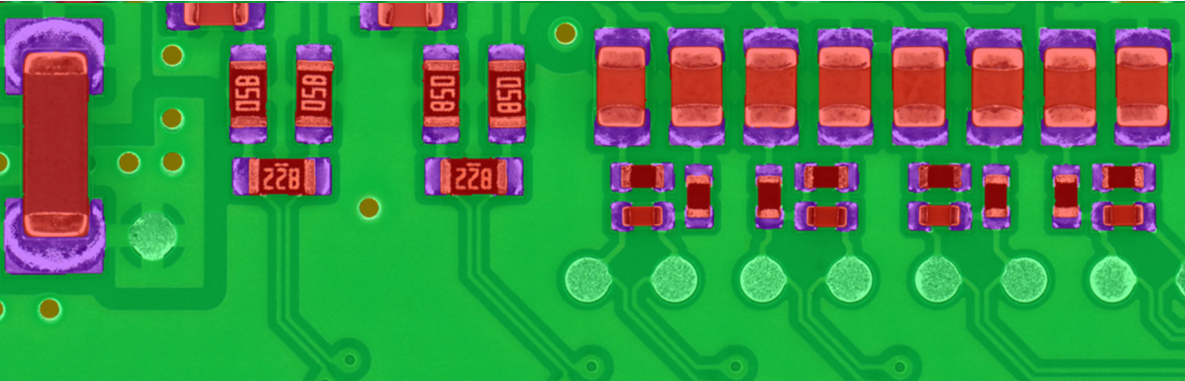
Nordson's Machine Learning (ML) models are trained for panel image inspection and then optimized for the user's specific application requirements.

With the continuous flow of data Nordson's AI improves over time as defects and parts evolve, resulting in a faster response to new applications and sample changes. Future proofed solutions that scale to take advantage of the latest processing hardware.

Cloud-based Model Retraining

The analysis of customers performance metrics guarantees quality and stable, continuous improvements of customer's results.

The connection between customers data and Nordson's AI enables continues improvement – putting more power into the hands of the user – ultimately to improve processes, productivity and yields.



SUBSCRIBE NOW!

Speak with your Nordson representative about upgrading your AOI software with Nordson Intelligence AI or contact your Nordson regional office



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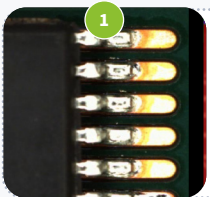
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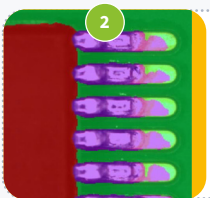
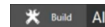


AI AutoProgram Advantage



AI AutoProgram works as a one-button solution within the recipe-generating function. Once the panel has been prepared, the AI button is pressed.

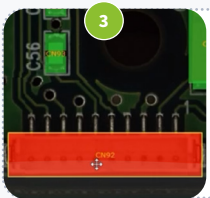
Board images are then automatically sliced and sent to the AI service (AI model) for segmentation.



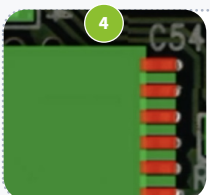
AI model instantly segments the image into a classification map:

- Component Body (Red)
- Solder Joint/Lead (Purple)
- Substrate (Green)
- Non-Board Area (Yellow)

AI sends results back to AOI software to inspect the classification map.



Results are then displayed over original board image for analysis. If any components fail to segment, an indicator will be highlighted allowing the operator to verify them manually.



Successful segmented components are automatically created and taught with default inspection settings.

Nordson Intelligence AI simplifies board inspection increasing the speed and accuracy of your result.