

# AOI & SPI solutions you can count on



## FX-940UV ACI / AOI

In-Line Optical Inspection for conformal coating and parts

Conformal coatings used by electronic manufacturers contain UV indicators for the purpose of inspection. Since coatings are transparent, units must be viewed under black light in order to verify coverage and non-coverage. The Nordson TEST & INSPECTION's FX-940UV makes inspection of conformal coatings simple and convenient by automating the inspection process for quality and consistency of coatings under UV lighting with the use of proprietary inspection algorithms.

With minimal programming, the inspection set-up is fast and intuitive typically requiring less than 30 minutes. A known good board is used to learn the coverage and non-coverage areas. The automated inspection typically takes only a few seconds with inspection results immediately displayed. These results can be stored and reviewed off-line at any time. The FX-940UV also reads all common barcodes for product traceability.

## Features

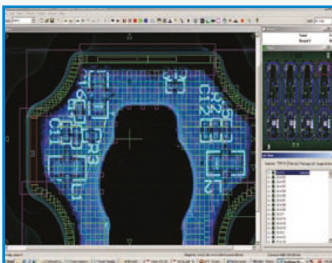
- Quick set-up with Auto Train
- Megapixel color imaging
- Proprietary lighting
- Optional side angle cameras

## Automated Inspection for

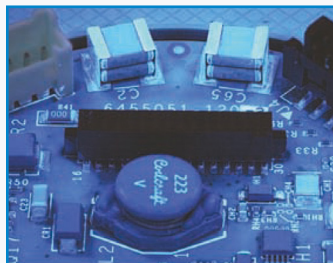
- Conformal coat coverage
- Micro Coatings
- Flux coverage
- Selected areas of non-coverage
- Delamination / cracks and bubbles
- SPC, barcode reading and archiving of inspection results
- Includes SMT and THT component inspection

## Specifications

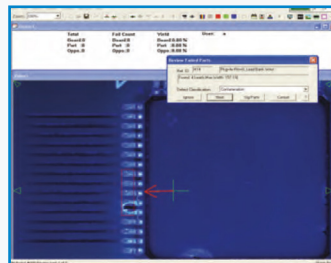
| Inspection Capabilities |                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------|
| Throughput              | Up to 30 sq. in./ sec. (194 sq. cm)                                                                |
| Maximum Board Size      | 27.5" x 23" (698 mm x 584mm)                                                                       |
| Maximum Inspection Area | 17" x 18.5" (437mm x 470mm)                                                                        |
| Clearance               | 4" (100mm) top and bottom                                                                          |
| Optional Upgrade        | 4 side angle cameras                                                                               |
| Defects Detected        | Coatings and dispensed material coverage, non-coverage, cracks and delamination                    |
| Software                |                                                                                                    |
| Algorithms              | Color, OCV, OCR, barcode recognition, both image and rule-based algorithms                         |
| Data Requirements       | None                                                                                               |
| CAD Translation Package | Not required                                                                                       |
| Programming Skill Level | Technician or operator                                                                             |
| Operating System        | Windows 10                                                                                         |
| Off-line Software       | Optional - Rework, Review and Program Creation                                                     |
| SPC Software            | Real-time local and remote monitoring of first pass yield, defect trends, and machine utilization. |
| Hardware                |                                                                                                    |
| Lighting                | Proprietary UV, Coax and White LED lighting                                                        |
| Imager                  | Megapixel color camera: 12 or 20 µm pixel size<br>Resolution 2448 x 2048                           |
| Facilities              |                                                                                                    |
| Power                   | 110-220 VAC, 50/60 Hz, 15 amps                                                                     |
| Footprint               | 39" x 52" x 60" (1000mm x 1329mm x 1531mm)                                                         |
| Weight                  | 950 lbs (430 kg)                                                                                   |
| Machine Installation    | < .5 hour                                                                                          |



Automated inspection for conformal coat.



Side angle viewing cameras.



Defect image of missing conformal coat.

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

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