

AOI & X-Ray solutions
you can count on.



BX-UV AOI

Benchtop automated conformal coat inspection

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 YESTECH BX-UV 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 BX-UV also reads all common barcodes for product traceability.

Features:

- Quick set-up with Auto Train™
- 5 megapixel color imaging
- Proprietary lighting
- Optional side angle cameras

Automated Inspection for:

- Conformal coat coverage
- Selected areas of non-coverage
- Delamination / cracks and bubbles
- SPC, barcode reading and archiving of inspection results

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Specifications

Inspection Capabilities

Throughput:	Up to 10 sq. in./sec.
Maximum Board Size:	18" x 20" (457mm x 508mm)
Clearance:	2" (50mm) top and bottom
Defects Detected:	Coatings: coverage, non-coverage, cracks and delamination

Software

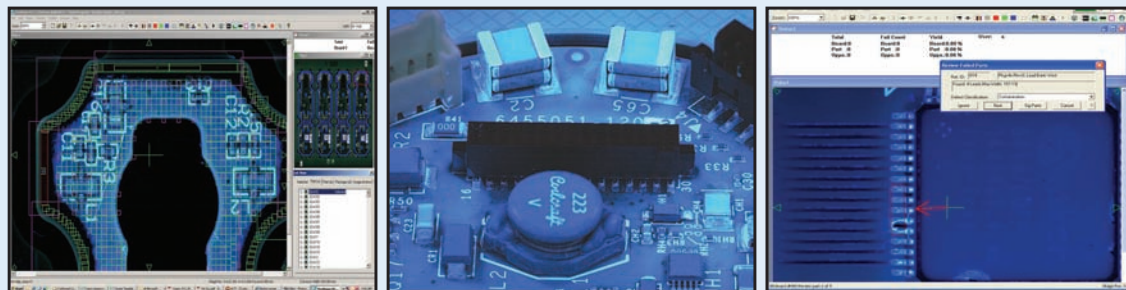
Algorithms:	Color, OCV, OCR, barcode recognition, both image and rule-based algorithms
Data Requirements:	None
CAD Translation Package:	Not required
Programming Skill Level:	Technician or operator
Operating System:	Windows XP Professional
Off-line Software:	Optional - Rework, Review and Program Creation
SPC Software:	Optional - Real-time local and remote monitoring of first pass yield, defect trends, and machine utilization.

Hardware

Lighting:	Proprietary UV Lighting
Imager:	5 megapixel color camera: 25 micron pixel size Resolution 2448 x 2048

Facilities

Power:	110-220 VAC, 50/60 Hz, 10 amps
Footprint:	34" x 39" x 17" (864mm x 991mm x 432mm)
Weight:	170 lbs (77 kg)
Machine Installation:	< .5 hour



Automated inspection for conformal coat.

Side angle viewing cameras.

Defect image of conformal coat.

Nordson YESTECH

USA Headquarters:
2762 Loker Ave. West
Carlsbad, CA USA 92010
+1.760.918.8471 **Phone**
+1.760.918.8472 **Fax**

Asia:
#137 Guoshoujing Road
Zhangjiang Hi-Tech Park
Pudong,
Shanghai 201203, P.R.China
+86.21.3866.9166 **Phone**
+86.21.3866.9199 **Fax**

Europe:
Bergerstraat 8
6226 BD Maastricht
The Netherlands
+31.352.4466 **Phone**
+31.352.7722 **Fax**

UK
Charwell House
Wilsom Road, Alton
Hampshire, UK GU34 2PP
+44 (0) 1420 540254 **Phone**
+44 (0) 1420 544098 **Fax**



Nordson YESTECH
USA Headquarters
2762 Loker Ave. West
Carlsbad, CA USA 92010

+1.760.918.8471 **Phone**
+1.760.918.8472 **Fax**
www.nordsonyestech.com

