Conformal coatings used by electronic manufacturers contain U.V. 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 FX-UV makes inspection of conformal coatings simple and convenient by automating the inspection process for quality, consistency and thickness of coatings under UV lighting with the use of proprietary inspection algorithms.

With no programming required, the inspection set-up is fast and intuitive typically requiring only a few 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-UV also reads all common barcodes for product traceability.

An optional inspection software upgrade for component presence and location is available making the FX-UV a valuable yield enhancement solution.

Features:
- Quick Set-up
- Auto training
- Megapixel Color Camera
- Proprietary Lighting

Automated Inspection for:
- Conformal coating coverage
- Selected areas of non-coverage
- Delamination / cracks and bubbles
- Optional component inspection
Specifications

Inspection Capabilities
Throughput: Up to 10 sq. in./sec.
Maximum Board Size: 22” x 20” (560mm x 510mm)
Clearance: 2” (50mm) top and bottom
Defects Detected:
- Coatings: coverage, non-coverage, cracks and delamination
- Components: presence, position
- Lead: bent, lifted, bridging

Software
- Algorithms: Normalized correlation, OCV, OCR, barcode recognition 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

Hardware
- Lighting: Proprietary UV Lighting
- Imager: Thin Camera: 25 micron
  - Resolution 1280 x 1024

Facilities
- Power: 110VAC (220 optional) 50/60 Hz, 15 amps
- Footprint: 55” x 57” x 50” (1400mm x 1450mm x 1270mm)
- Weight: 2,000 lbs (907 kg)
- Machine Installation: < .5 hour