Nordson ASYMTEK’s advanced multiple camera imaging technology offers high-speed inspection with exceptional defect coverage. With dual sided viewing (top-down and bottom up) cameras and UV lighting the FX-942 ACI inspects conformal coating coverage and verifies correct part assembly in SMT or THT applications, enabling users to improve quality and enhance yields.

Advanced High Power UV Lighting and newly available image processing technology integrate several techniques, including coverage inspection, color inspection, normalized correlation and rule-based algorithms, to provide complete inspection coverage with an unmatched low false failure rates.

Configurable for several line positions, the FX-942 ACI is equally effective for coating, pre/post-cure and final assembly inspection. Off-line programming maximizes machine utilization and real-time SPC monitoring provides a valuable yield enhancement solution.

**Features:**
- Top down and bottom up imaging
- Optional side viewing cameras
- Proprietary UV lighting
- 100 mm clearance for tall components
- Traceability
- Optional thickness measurement

**Automated Inspection for:**
- Conformal coat coverage
- Micro Coatings / dispensed materials
- Flux coverage
- Selected areas of non-coverage
- Delamination / cracks and bubbles
- Part presence / Correct part / polarity
- SPC, barcode reading and archiving of board image with inspection results
Specifications

Model
FX-942UV

Multi-function system with top-down viewing, bottom up viewing and optional side cameras

Optional Upgrades:
Thickness measurement

Specifications

Throughput: Up to 30 sq. in./sec.

Maximum Board Size: 15.5" x 15.5" (395 mm x 395 mm)

Clearance: 4" (100mm) top side and 2" (50mm) bottom

False Calls: ≤500 PPM (<0.05% typical)

Defects Detected:
Coatings and dispensed material coverage, non-coverage, cracks and delamination, SMT and THT part defects.

Software

Algorithms:
Conformal Coating Inspection

Color detection, OCV, OCR, Barcode recognition, both image and rules based algorithms.

Data Requirements: None

Programming Skill Level: Technician or operator

Operating System: Windows 7

Off-line Software:
Optional - Rework, Review and Program Creation Basic

SPC Software:
Real-time local and remote monitoring of first pass yield, defect trends, and machine utilization.

Data Outputs:
Text, SQL, ODBC, MS Access, XML

Hardware

Material Handling:
SMEMA, dual direction auto width conveyor, pass / fail signals, board clamping

Lighting:
Proprietary UV Lighting multi-angle LED

Imager:
Up to 18 megapixel color imaging sensor each side

Facilities

Power: 110-220VAC, 50/60 Hz, 15 amps

Air input: 60 PSI min., 1/4" air hose, 2 CFM

Footprint: 39" x 52" x 67" (1000mm x 1329mm x 1531mm)

Weight: 950 lbs (430 kg)

Machine Installation:
< 1 hour

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