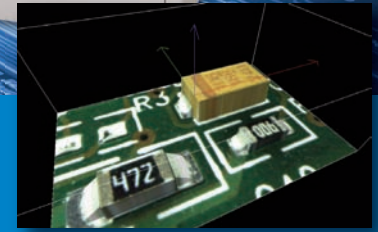


AOI & X-Ray solutions
you can count on.

Now with
3D inspection!



FX-940 AOI

In-line PCB inspection

Nordson YESTECH's advanced 9 megapixel color camera imaging technology offers high-speed PCB inspection with exceptional defect coverage. With one top down viewing camera, four side viewing cameras and 3D inspection, the FX-940 inspects solder joints and verifies correct part assembly enabling users to improve quality and increase throughput.

Programming the FX-940 is fast and intuitive. Operators typically take less than 30 minutes to create a complete inspection program including solder inspection. The FX-940 utilizes a standard package library to simplify training and ensure program portability across manufacturing lines.

Advanced Fusion Lighting™ and newly available image processing technology integrates several techniques, including 3D inspection, color inspection, normalized correlation and rule-based algorithms, to provide complete inspection coverage with an unmatched low false failure rate.

Configurable for all line positions, the FX-940 is equally effective for paste, pre / post-reflow and final assembly inspection. Off-line programming maximizes machine utilization and real-time SPC monitoring provides a valuable yield enhancement solution.

Features:

- 9 megapixel color imaging
- Capture on the fly technology
- 1 top-down and 4 side angle cameras
- Quick set-up
- High speed
- High defect coverage / low false failure
- Optional 3D inspection

Automated Inspection for:

- Solder defects
- Lead defects / lifted leads
- Component presence and position
- Correct part / polarity
- Through-hole parts
- Co-planarity of chips, BGAs and other height sensitive devices

The logo for Nordson YESTECH, featuring the word 'Nordson' in a blue, stylized font with a swoosh above it, and 'YESTECH' in a smaller, blue, sans-serif font below it.

FX-940 AOI In-line PCB inspection

Specifications

Model

FX-940

Multi-function system with top-down viewing,
9 megapixel camera
Capture on the fly technology
4 side angle cameras
Digital Fringe Projection 3D Inspection

Optional Upgrades:

Specifications

Throughput: Up to 30 sq. in./sec. > 1.5 million components per hour
Maximum Board Size: 20" x 21" (500mm x 525mm)
Clearance: 2" (50mm) top and bottom
Minimum Component Size: 0201; 01005 with high magnification option
False Calls: <500 PPM (<0.05% typical)
Defects Detected: Part: position, missing, wrong, polarity, skew, tombstone
Lead: bent, lifted, bridging
Solder: open, insufficient, short, solder balls

Software

Algorithms: Color, OCV, OCR, barcode recognition, both image and rule-based algorithms. Optional 3D
Data Requirements: ASCII Text, X-Y position, part #, ref. #, polarity
CAD Translation Package: Aegis, Unicam, Fabmaster, YESTECH CAD Utility
Programming Skill Level: Technician or operator
Operating System: Windows 7 or higher
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.
Data Outputs: Text, SQL, ODBC, MS Access

Hardware

Material Handling: SMEMA, dual direction auto width conveyor, pass / fail signals, board clamping
Lighting: Proprietary Fusion Lighting™ multiangle LED
Imager: 9 megapixel color camera
Resolution 4096 x 2160; 25, 12 or 8 micron pixel size

Options

Conveyor: Dual lane conveyor, heavy duty chain conveyor and 3 stage
Large Board Option: Optional 34" x 21" (865mm x 510mm)
Bottom Side Camera: Optional for bottom side bar codes
Board Supports: Bottom 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 60" (1000mm x 1329mm x 1531mm)
Weight: 950 lbs (430 kg)
Machine Installation: < 1 hour

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