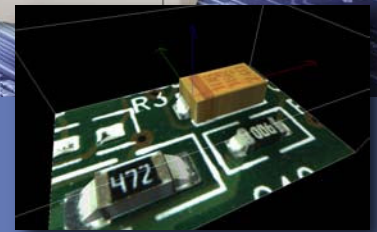


AOI solutions you  
can count on.

Now with  
**3D inspection!**



## FX-940 AOI

In-line PCB inspection

Nordson YESTECH's advanced 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:

- Proprietary 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

# FX-940 AOI In-line PCB inspection

## Specifications

### Model

#### FX-940

Multi-function system with top-down viewing,  
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  
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: Up to 18 megapixel color camera sensor  
25, 12 or 8 micron pixel size

### Options

Conveyor: Dual lane conveyor, heavy duty chain conveyor and 3 stage  
Large Board Option: Optional 48" x 21" (1219mm 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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