

Insight^{Pro}

Programmable Multi-Axis X-Ray Inspection System

The Insight-Pro is a high-resolution programmable multi-axis x-ray inspection system suitable for a wide range of electronics and material analysis. The Insight-Pro features a fully programmable multi-axis manipulator (5-Axes (X, Y, Z, tilt & Pitch up to 70°)). Capable of testing mixed BGA/SMT devices, connectors and Plated Thru Holes (PTH) in Manual or Automated Modes.

Automated (mode):

- Fully programmable positioning and defect detection
- Automated test in both 2D and 3D (oblique) views
- "Teach-&-GO" macro, or CAD driven test development
- Automatic calibration and image correction for accurate measurements and consistent defect detection results

Manual (mode):

- High-resolution imaging for accurate Failure Analysis
- Real-time 2D and 3D (off-axis) viewing up to 70 degrees
- Inspection Point Navigator™ (optical/x-ray coupled view)
- Advanced 5-axis control w/ one hand (via Space Mouse™)

Constant View Calibration:

This feature automatically maintains the relative x-ray tube power and sample orientation (magnification / field-of-view) during inspection routines. This unique feature provides accurate measurements and consistent defect detection results.

Space Mouse™, 5-Axis Controller:

The Space Mouse provides rapid board positioning and advanced 5-axis control using only one hand.



Call
858-536-5050
for Quote



Specifications

Hardware:

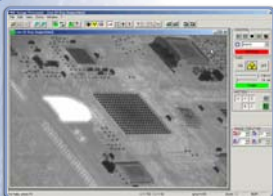
- **System Footprint:** 50"W x 45"D x 72"H
- **Manipulator:** 5-axis (X, Y, Z, Tilt & Pitch up to 70°)
- **X-Ray Source:** 90 or 130Kv, 5 micron, >40lp/mm
- **Board Handling:** 12" X 14" | 300mm X 360mm
- **PC:** Intel/ATX mini tower w/ printer & CDRW
- **Flat Panel Display:** 19" (483mm) LCD Monitor
- **Network Ready:** Ethernet 10/100 base-T
- **Operating Voltage:** 240VAC
- **Certifications:** Complies with all FDA, 21CFR Subchapter J Radiation Safety Standards. Systems have been TUV Certified.

System/Image Processor Software:

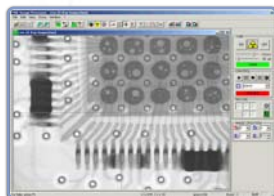
- **Operating System:** Windows™ XP
- **Image Processor:** MSX Image Analyzer Suite and Application Tool Library (AAT)

Options:

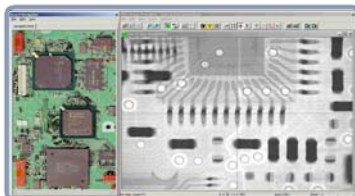
- Automatic center repositioning (ACR™)
- Barcode scanning capability



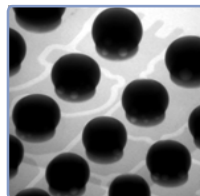
2D/3D Image Analyzer



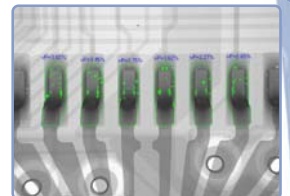
2-Sided PCB Inspection



Inspection Point Navigator



BGA Off-Axis



Leads w/ Measurements

About FocalSpot

FocalSpot, Inc. is recognized worldwide as a leader in the design and manufacture of affordable high-quality x-ray inspection systems; providing Inspection and Rework solutions for Electronic Manufacturers worldwide. FocalSpot is also a regional distributor and value-added reseller for DEN-ON BGA/SMT rework solutions; Optilia BGA/SMT video microscopes; and First Article AOI Inspection Systems; providing sales, service and support in North/South America, Canada and Mexico.