

Semiconductor X-Ray Inspection

The Verifier HR (FSX-090) is an affordable high-resolution and high-magnification x-ray system for semiconductor prototyping, failure analysis and manufacturing process validation. Systems are CE, CSA and TUV certified and exceed all safety and radiation protection requirements set forth by CDRH and FDA regulations.

Key Features

The Verifier HR (FSX-090) is an affordable high-resolution and high-magnification x-ray system designed for semiconductor electronics and materials quality inspection and defect detection. Magnification of greater than >715X provides excellent viewing of internal semiconductor connections (wire-bonds, die-attach, etc.) and material defect characteristics (delamination, voiding, etc.).

- Easy-to-use
- 715X magnification
- Flexible board/part handling
- Multipurpose inspection tool
- Portable, small 32"x 34" footprint
- 90kV source provides sufficient power to penetrate challenging packages and dense materials

***Safe:** The Verifier exceeds all safety and radiation protection requirements set forth by CDRH and FDA regulations. Systems are CE, CSA & TUV certified.

Easy-to-Use Controls

Intuitive controls and indicators for On/Off, Gain, Zoom, Focus and Interlock functions. Operators can be trained quickly and easily.



Call
(858) 536-5050
For Quote

Affordable High-Quality X-Ray System
for Semiconductor Applications

Extended Height
provides increased
oblique viewing!



Specifications

Hardware

- Footprint: 32"x 34"
- Board handling: up to 16 x 18" | 406 x 457mm
- Angled viewing: up to 70° (standard fixture)
360° w/ rotation fixture (small boards)
- X-ray source: 90kV, 5 micron Microfocus
- 2/4" high-resolution image intensifier
- Magnification: >715X
- Field-of-View: up to 40mm
- Resolution: >40 lp/mm
- PC: Intel/ATX mini tower w/ printer & CDRW
- Flat panel display: 19" (20" optional)
- Network ready: Ethernet 10/100 base-T

System/Image Processor Software

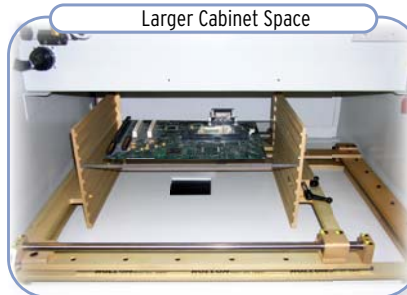
- **Operating System:** Windows™ XP Pro
- **Image Processor:** Verifier VIP (standard)

Options

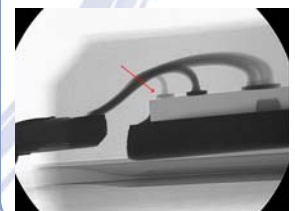
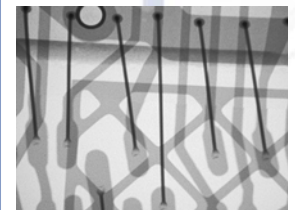
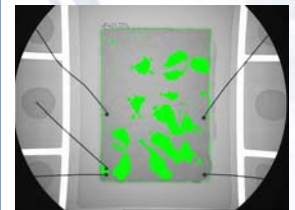
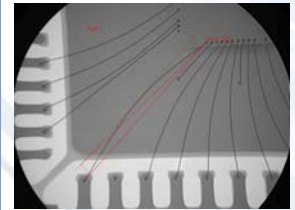
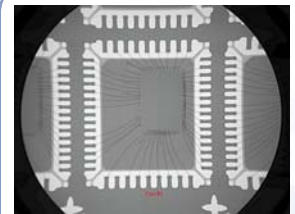
- VIP Series Image Processors (3 options)
- High-Resolution Digital Detector Upgrade

Flexible Sample Holder

- **Angled Viewing:** 0-70° (w/ standard fixture)
- **Rotation Fixture:** Provide 360° rotation of semiconductor components.
- Rotation Fixtures are able to hold individual packages, waffle trays, parts on tape and other custom part handling applications.



Sample Images



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.