

FocalSpot X-Ray Inspection System PM Servicing Preventative Maintenance Service, Radiation Surveys, Parts and Upgrades

All X-Ray Inspection Systems require periodic maintenance servicing to ensure optimal system performance and extend system life. Annual Radiation Surveys are required to ensure operator safety and meet annual certifications; a mandatory requirement of most regulatory agencies worldwide. Therefore, FocalSpot recommends these checks as an annual Preventative Maintenance program.

Annual Preventative Maintenance Check Points:

- ➔ **Radiation Survey**
Inspect, record and provide written report in compliance with 21 CFR 1020-40 (radiation safety standards) to verify that readings at and around all points of the system cabinet meet State/Federal and Manufacturers Limits for safe operation of the system at any setting.
- ➔ **Image Train Alignment/Adjustments**
 - Check/align X-ray tube to Image Intensifier centering
 - Check/focus Camera and Image Intensifier lenses
 - Check/calibrate gun board electronics for ideal tube focusing
- ➔ **Structural, Mechanical and Motion Control Systems**
 - Lead shielding and lead glass
 - Cabinet, frame, doors, hinges and gas shocks
 - Lubrication of the Image Intensifier drive spindle and bearings
 - Lubrication of the x-ray tube drive spindle and bearings
 - Lubrication of the X,Y table shafts and bearings, check belts
- ➔ **Electrical Voltage Checks/Calibration**
 - X-ray tube control, IM and VM voltages
 - Control panel display readouts
 - Multi-Watt Gun Board and tube focus adjustments
 - X,Y table motor driver voltages and limit switches
 - Interlocks, controls, indicators, lighting, power/standby/e-stop
 - Cable harness, connectors and accessories inspection
- ➔ **PM and Radiation Survey Reports**
 - Radiation Survey Certification Report
 - Recommend PM repairs or upgrades report (as required)
- ➔ **Other Services and Support Options:**
 - **Training** – X-ray theory, applications, systems and software
 - **Upgrades** – Image Processors, (3) upgrade options
 - **Used Systems** – Reconditioned Nicolet X-ray Systems for sale



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.