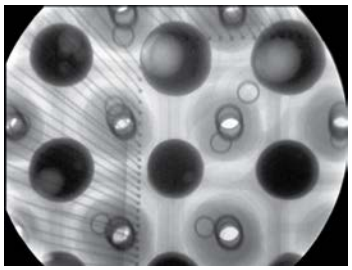
Ultra Compact

Precision X-Ray Imaging for Electronic Assemblies, Medical Devices, Drug Delivery Devices, and General Failure Analysis



X-ray Image of BGA Voids as seen through a micro-chip with the Ultra-Compact.

Glenbrook Technologies redefines X-ray Inspection with our smallest JewelBox micro focus x-ray system yet. Real dimensions of just 22”W x 26”L, it’s compact enough to fit on a standard desk, in an office or small lab. Applications include Electronic Assemblies including BGAs, Medical Devices, Drug Delivery Devices, Small Animal Imaging, and General Failure Analysis.

The JewelBox Ultra Compact provides high resolution, real-time x-ray inspection with variable magnification up to 500 times, 5 axis positioning and advanced image processing. Images can be saved in static formats such as.jpg and .tif as well as .avi video formats.

All of these advanced features are made possible by Glenbrook Technologies’ patented X-ray detector technology. This innovative system enables high-resolution X-ray imaging at low radiation levels, ensuring both operator safety and superior image clarity. With user-controlled zoom magnification, technicians can inspect critical details with unmatched precision and efficiency.

Glenbrook Technologies Inc.

X-RAY TECHNOLOGY LIKE NO OTHER

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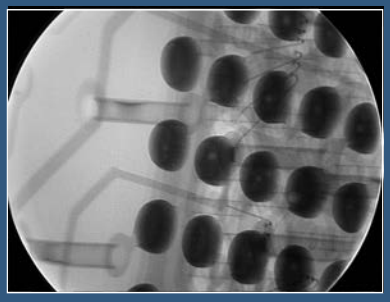
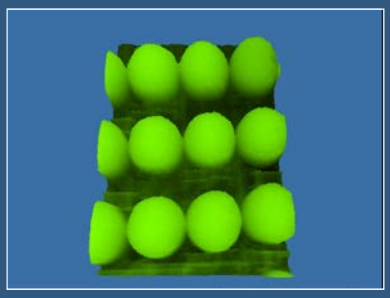
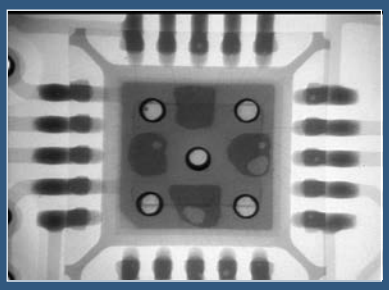
Advanced X-ray Imaging with Adjustable Magnification for Detailed Inspection



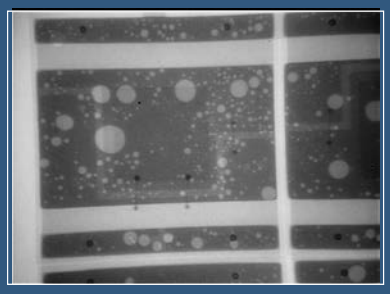
BGA Package Using Tilt and Rotation.



3D Software Rendering of BGA.



QFN Package.



Solder Voids in LED package.

Specifications

- Operating voltage: 120V/60hz or 220V/50hz
- Anode Voltage: 0 to 80 kV (Adjustable)
- Anode Current: Up to 200 micro-amps (Adjustable)
- Field of View: 25 millimeters or 50 millimeters
- Resolution: 10 microns (depending on magnification)
- Magnification: Up to 500x geometric and 1,200x optical
- Focal spot size: 10 micron
- Nominal Exterior Dimensions: 22”W x 26”D x 27¼”H
- Manipulator: five-axis joystick positioner
- X/Y Object Travel Distance: 5.5” x 9"
- Laser Locator for precise location
- Image Processor: GTI Image Processing Software (GTI-2000 or GTI-5000) with variable frame averaging, contrast adjustment, measurement capability, image save in tiff, jpg or avi video formats
- CE Approved

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