

# X-SPECTION

AXI 7300 X-RAY INSPECTION SYSTEM

SCIENSCOPE  
INTERNATIONAL



## AXI 7300 X-Ray Inspection System

The AXI 7300 is our most technologically advanced X-Ray Inspection System. As with all X-SCOPE platforms, it includes every advanced s/w tool required for a wide variety of applications. With more tilt and included conveyors is the ultimate in helping you reduce money and time.

### Applications

- Molded plastic
- Automotive assemblies
- Medical devices
- Pharmaceuticals
- Ceramics
- Agriculture
- Multilayer PCBs
- BGA, QFN, wire bond, etc.
- Semiconductor
- Over molded electrical connectors
- Encapsulated components
- Aluminum die casting

### FEATURING

- Fully integrated, 130kV high power micro-focus closed x-ray tube
- Automatic program inspection with fiducial & barcode
- Spot size down to 5 $\mu$
- 5" x 5" or 4" x 3" high resolution and ultra resolution CMOS digital flat panel image detector
- 45° camera tilt for oblique angle viewing
- 25" x 22" Inspection stage
- Color mapping camera with zoom window provides easy location and identification of faults
- 5 axis motion system (Z-tube, Z-Detector, X and Y)
- Computer controlled kV and mA settings
- Computer controlled variable speed & X-Y stage
- Simple point and click, intuitive GUI provides access to create advanced inspection routines

All software tools are standard including (but not limited to)

- BGA Void detection and automatic calculations
- Easy macro recording for intuitive step and repeat programming
- Various measuring tools for radius, area, perimeter, etc.
- Industrial PC with Windows 10, 24" LCD flat panel display



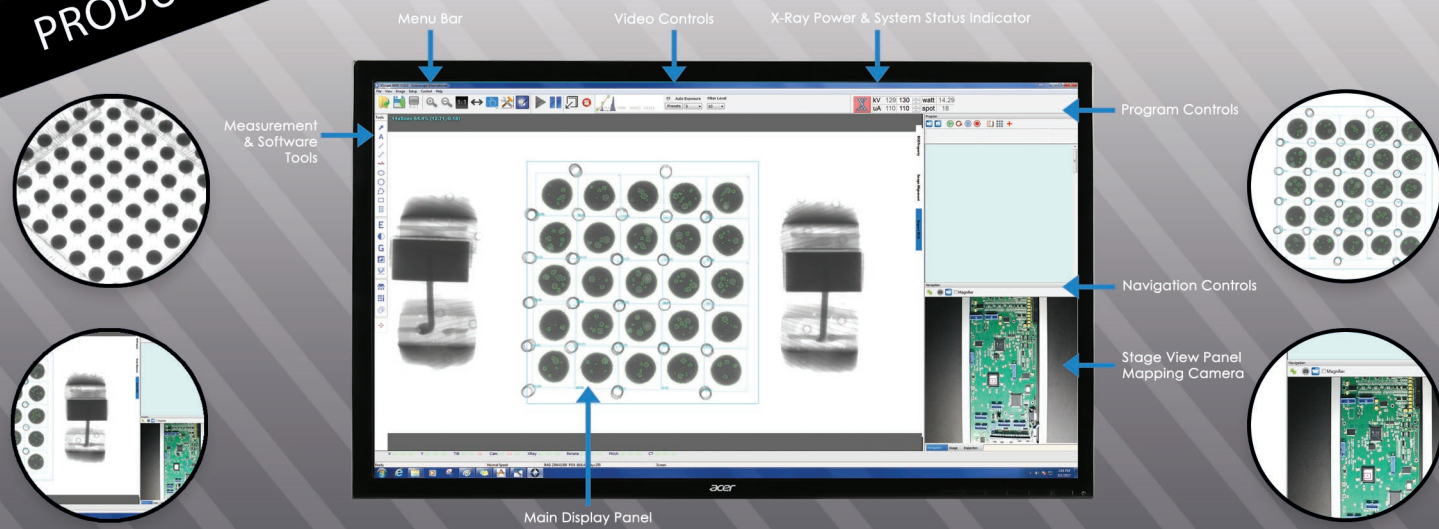
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## MACHINE SPECIFICATIONS

### X-Ray Tube

- X-Ray Source: Micro-focus, integrated (closed)
- Operating voltage: 130kV
- Current: 0.32mA
- Minimum Focal Spot Size: 5 Micron
- Magnification up to: 800x

### General Machine Specs

- Dimensions: 65" x 59" x 80" (including light tower) 1651mm x 1498.6mm x 2032mm (including light tower)
- Weight: 4500lbs (weight may vary)(steel lead welded construction)
- Power: 110-220 VAC 50/60 Hz (universal)
- Industrial PC: Microsoft Windows 10 (64-bit)
- Airpressure 5 to 6 bar

### Digital Flat Panel Detector

- Grayscale: 14 bit (16,384 shades of grayscale)
- Speed: 10FPS (4x3 detector) or 30FPS (5x5 detector)
- Resolution: 49.5µm (4x3 detector) or 99µm (5x5 detector)
- Detector Size: 4" x 3" ultra-high resolution or 5" x 5" high resolution

### Work Area

- Inspection Area: 25" x 22" / 635mm x 358mm
- Oblique Angle View: +45°

THIS SYSTEM INCLUDES A 1 YEAR WARRANTY ON PARTS AND LABOR

### Compliance

THE SCIENSCOPE X-SCOPE X-RAY INSPECTION SYSTEMS MEET THE FDA-CDRH REGULATION CFR 21.1020.40 SUBCHAPTER J FOR CABINET X-RAY SYSTEMS. THE FDA-CDRH STANDARD FOR CABINET X-RAY SYSTEMS STATES THAT RADIATION EMISSIONS WILL NOT EXCEED 50 MICRO R/HR 5 CM FROM ANY EXTERNAL SURFACE. THE X-SCOPE X-RAY INSPECTION SYSTEMS TYPICALLY HAVE A RADIATION EMISSION READING OF LESS THAN 20 MICRO R/HR 5 CM FROM ANY EXTERNAL SURFACE. ALL SCIENSCOPE X-SCOPE X-RAY SYSTEMS HAVE A CE APPROVAL. SCIENSCOPE X-SCOPE X-RAY SYSTEMS ARE CLASSIFIED AS "CABINET X-RAY SYSTEMS" AND REQUIRE NO EXTERNAL RADIATION SHIELDING. WELDED STEEL / LEAD-STEEL CONSTRUCTION, NO VISIBLE SHIELDING.

FDA ACCESSION NUMBER: 0710198

CE REFERENCE NUMBER: CN.CE.0402-05.09

