**X-Spection 6000**  
**X-Ray Inspection System**

The X-SPECTION 6000 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 a rotating work table, the X-SPECTION 6000 is the ultimate in flexibility.

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

### System Details

**FEATURING**
- Fully integrated, 130kV high power micro-focus closed x-ray tube
- Spot size down to 5μ
- 5” x 5” or 4” x 3” high resolution and ultra resolution CMOS digital flat panel image detector
- 60° camera tilt for oblique angle viewing
- 22” x 18” Inspection stage with 350° rotation
- Color mapping camera with zoom window provides easy location and identification of faults
- Z axis movement of the x-ray tube and detector
- Computer controlled kV and mA settings
- Computer controlled variable speed X-Y stage (and rotate)
- Simple point and click, intuitive GUI provides access to create advanced inspection routines

**All software tools 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 7 PRO, 24” LCD flat panel display
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

**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**
- Sample Table Size: 560mm x 457mm / 22” x 18”
- Inspection Area: 360mm x 290mm / 14.2” x 11.6”
- Oblique Angle View: +60°

**General Machine Specs**
- Dimensions: 59” x 62.9” x 62.9” (78.6” including light tower)
  - 1500mm x 1600mm x 1600mm
  - 2000mm including light tower
- Weight: 1600kg / 3527 lbs. (steel lead welded construction)
- Power: 110-230 VAC 50/60 Hz (universal)
- Industrial PC: Microsoft Windows 7 PRO (64-bit)

24/7 SERVICE HOTLINE
1(800)216-1800

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 EMISSION READINGS OF LESS THAN 20 MICRO R/MIN 5 CM FROM ANY EXTERNAL SURFACE. THE X-SCOPE X-RAY INSPECTION SYSTEMS TYPICALLY HAVE A RADIATION EMISSION READINGS OF LESS THAN 20 MICRO R/MIN 5 CM FROM ANY EXTERNAL SUBFACE. 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.