

# X-SCOPE

## 3000 X-RAY INSPECTION SYSTEM



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The X-SCOPE 3000 X-Ray Inspection System is the latest addition to the X-Scope platform. Based on the very popular X-SCOPE 2000, it adds a larger working area, more power and can use the same 130kV X-Ray source found in our flagship model, X-SPECTION 6000.

### 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

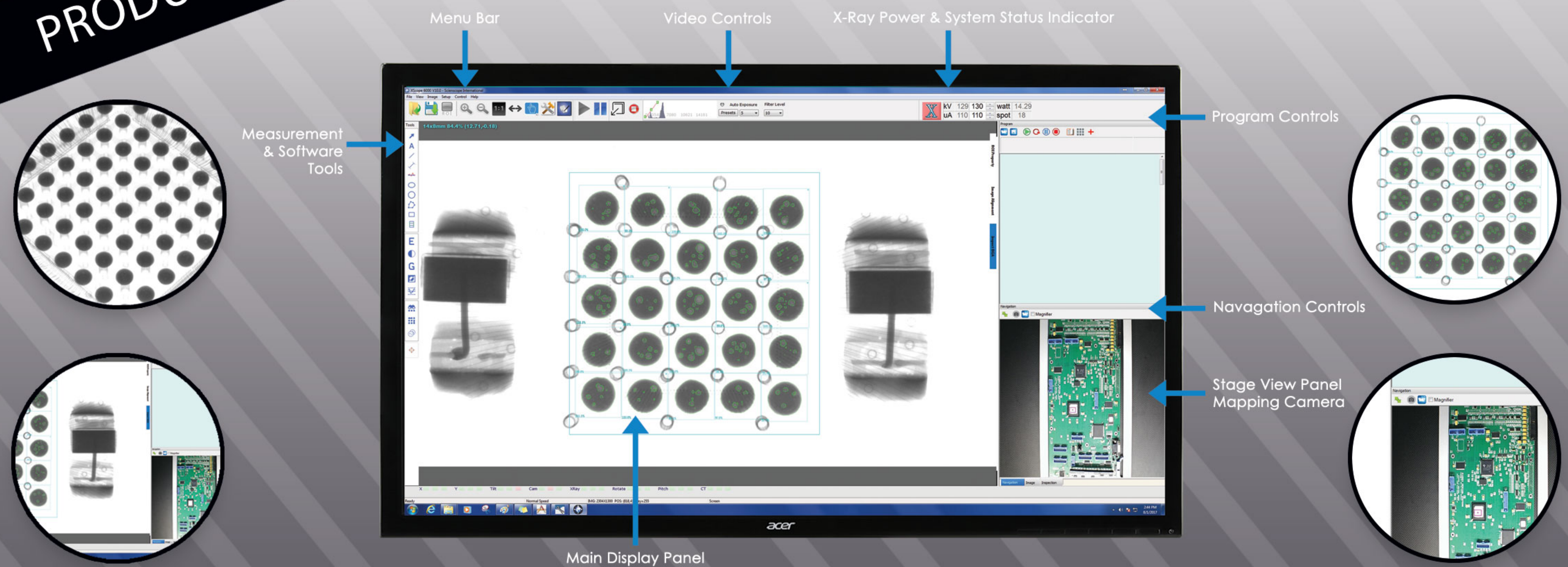
### FEATURING

- Fully integrated, 110 or 130kV high power micro focus closed X-ray tube
- Spot size down to 5 $\mu$
- Automatic program inspection with fiducial & barcode
- 4"x3" high resolution CMOS digital flat panel image detector
- 50° detector tilt for oblique angle viewing
- 25.4" x 19.5" Inspection area
- 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
- 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



**HIGH PERFORMANCE AND HIGH POWER AT  
AN AFFORDABLE PRICE!****PRODUCT SPECIFICATIONS**

## MACHINE SPECIFICATIONS

### X-Ray Tube

- X-Ray Source: Micro-focus, integrated (closed)
- Operating voltage: 110kV or 130kV
- Maximum Power: 16 W 50-130kV
- Minimum Focal Spot Size: 5 Micron
- Magnification up to: 900x

### Work Area

- Sample Table Size: 645mm x 496mm / 25.4" x 19.5"
- Inspection Area: 595mm x 460mm / 23.4" x 18"
- Oblique Angle View: +50°

### General Machine Specs

- Dimensions: 53.5" x 53.5" x 66" (81" including light tower)  
1358mm x 1358mm x 1677mm (2057mm including light tower)
- Weight: 1400kg / 3080lbs (steel lead welded construction)
- Power: 110-230 VAC 50/60 Hz 300Wh (auto switching)
- Industrial PC: Microsoft Windows 10 (64-bit)

### Digital Flat Panel Detector

- Grayscale: 14 bit (16,384 shades of grayscale)
- Speed: 40FPS
- Resolution: 49.5µm or 99µm
- Detector Size: 4" x 3" high resolution, 4" x 3" ultra-high resolution or 5" x 5" high resolution