X-SCOPE

3000 X-RAY INSPECTION SYSTEM

SCIENSCOPE
INTERNATIONAL

X-Scope 3000
X-Ray Inspection System

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 5µ
- 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.
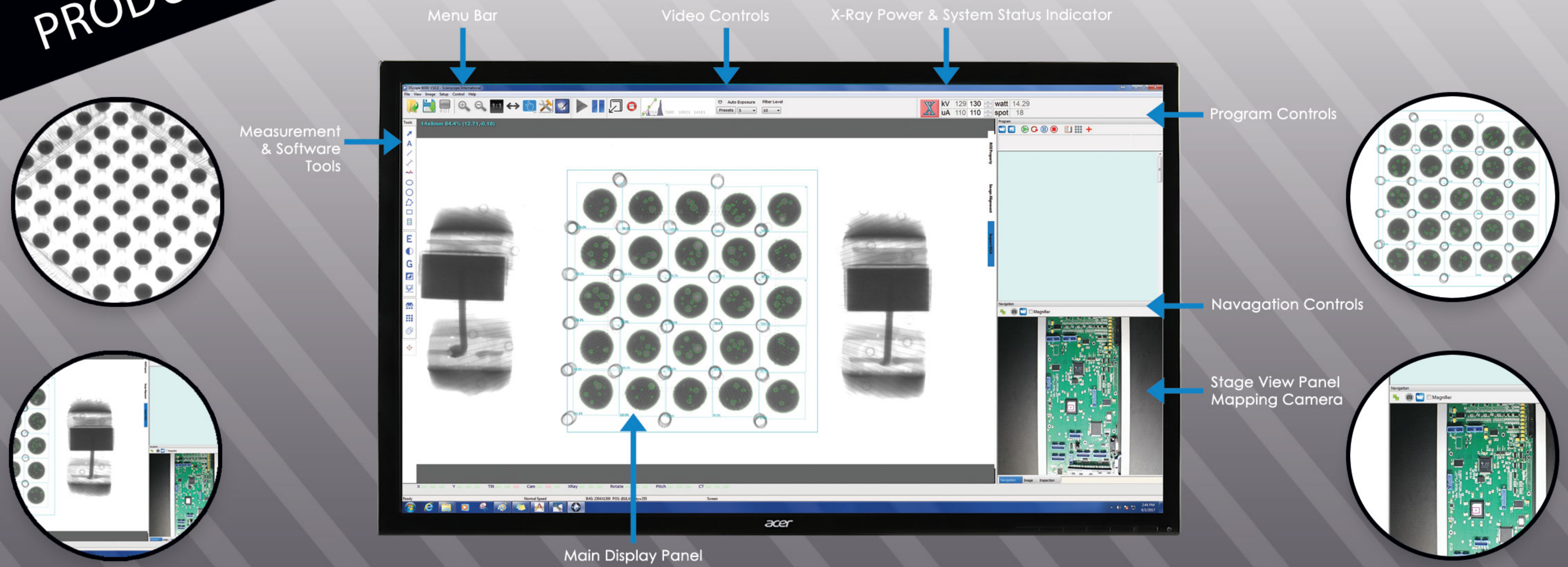- Industrial PC with Windows 10, 24" LCD flat panel display

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X-SCOPE 3000 X-RAY INSPECTION SYSTEM

HIGH PERFORMANCE AND HIGH POWER AT
AN AFFORDABLE PRICE!

Menu Bar

Video Controls

X-Ray Power & System Status Indicator

Measurement & Software Tools

Program Controls

Navagation Controls

Stage View Panel Mapping Camera

Main Display Panel

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: 5μ

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: 100-240 VAC 47/63 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

THIS SYSTEM INCLUDES A 1 YEAR WARRANTY ON PARTS AND LABOR

Compliance

CE