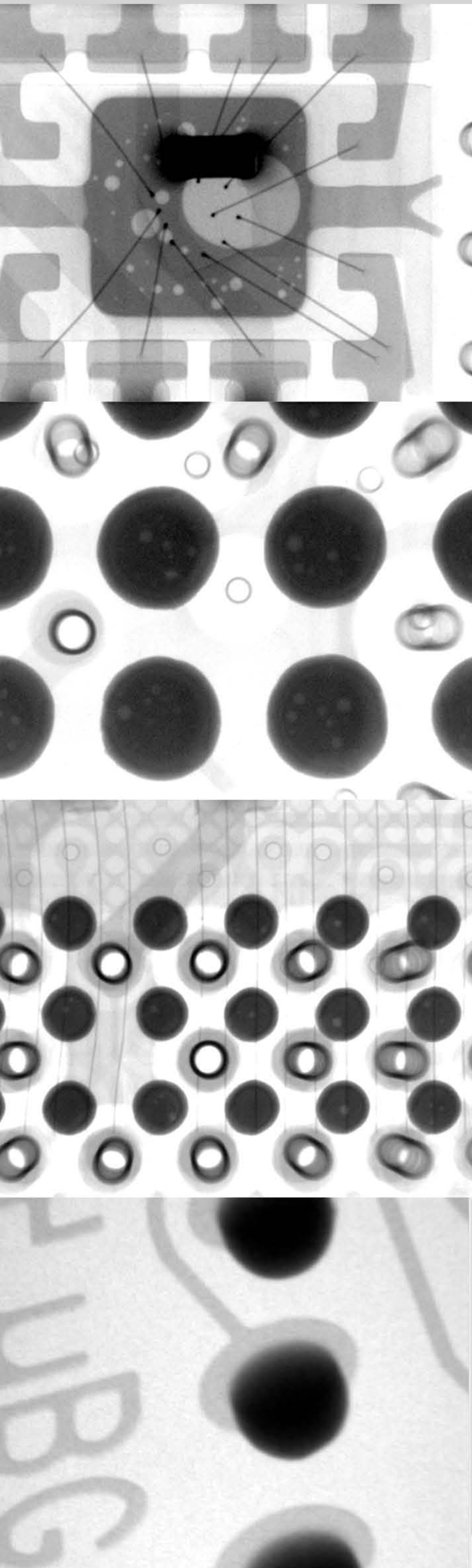# SCIENSCOPE X-SCOPE 6000

130kV, 5 Micron Microfocus X-RAY Inspection System

The Xspection 6000 is a Digital fully programmable CNC controlled x-ray inspection system that allows operators to program inspection and measurement routines with point and click ease.

Key features

- Technologically Advanced X-Ray Inspection System
- High Power 130kV 5 Micron Closed X-Ray Tube
- 5"x5" / 4"x3" High Resolution Digital Flat Panel Image Detector
- 20" x 24" Inspection Stage with **360°** Rotation
- 70° Camera Tilt for Oblique Extreme Angle Inspection
- Incredible 1,000X System Magnification
- Mega pixel mapping camera with zoom window - easy location and identification of faults
- Computer controlled kV and mA settings
- Programmable computer controlled - variable speed X-Y stage
- Simple point and click inspection routines

Industrial Applications

- Multilayer PCBs
- Inner layer registration
- Through hole plating inspection
- Fine pitch solder joint integrity

- BGA - micro BGA - flip chip inspection
- Encapsulated components
- BGA - SMT rework verification and failure analysis

User Interface

Menu Bar

Video Enchance Tool

Program Control

Measurement Tools

X-Ray Power & System Status Indicator

Video Control

Motion Control Panel

Mapping Camera Target

Stage View Panel Mapping Camera

Main Display Panel

X-Ray Tube

Tube Style	Closed Type
Tube Voltage	130kV
Tube Current	0.15mA
Focal Spot Size	5 Micron
Tube Cooling	Forced Air
Geometric Magnification	250X
System Magnification	1000X

Digital Flat Panel X-Ray Detector

Speed	30 FPS
Grayscale	14-bit (16,384 shades of grayscale)
Resolution	100 µm (1.6MP) with 5"x5" flat panel detector
	50 µm (3MP) with 4"x3" hight resolution flat panel detector

X-Ray Cabinet

Dimension	1500mm (L) x 1600mm (W) x 1600mm (H)
	59" (L) x 62.9" (W) x 62.9" (H)
Sample Table Size	500mm x 600mm
	19.6" x 23.6"
Detector Tilt	70 degree
Sample Table Movement	X Axis 360mm, Y Axis 400mm Z Axis 400mm
	X Axis 14.1", Y Axis 15.7" Z Axis .15.7"
Weight	1600 kg (3527.3 lbs) Steel - Lead - Steel welded construction

Power

Automatic switching power supply	110 - 230 VAC 50/60 Hz

Computer

Operating System	Microsoft Windows 7 PRO

Warranty

One year, 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 500 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 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 LEAD SHIELDING.

CE

FDA ACCESSION NUMBER: 0710198
CE REFERENCE NUMBER: CN.CE.0402-05.09

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SCAN TO RFQ