

NEW DESIGN

SCIENSCOPE X-SCOPE 2000

90kV/110kV, 5 Micron Microfocus X-RAY Inspection System

The X-Scope 2000 is a full featured high-performance x-ray inspection system with an unbeatable price to performance ratio and many advanced features you would expect to find on a much more expensive x-ray inspection system.



X-SCOPE 2000

Key features

- 4"x3" high resolution digital flat panel detector **NEW**
- 90kV/110kV - 5 micron focal spot X-Ray tube
- 70° oblique angle viewing **NEW**
- Larger Inspection Stage - 22" X 21" **NEW**
- Z axis programmable computer controlled movement of the x-ray tube and image detector
- Computer controlled kV and mA settings
- Programmable computer controlled - variable speed X-Y stage
- Full featured Image processing CPU with 23" LCD flat panel monitor
- Mega pixel mapping camera with zoom window - easy location and identification of faults
- Simple point and click inspection routines

Industrial Applications

- BGA Inspection
- Inspection of over molded electrical connectors
- Encapsulated components
- Aluminum die castings
- Molded plastic components
- Electrical / mechanical components
- Agriculture seed inspection
- Automotive assemblies
- Pharmaceuticals
- Ceramics

User Interface

The screenshot shows the X-Scope 2000 software interface. Key components are labeled as follows:

- Menu Bar:** Located at the top of the window, containing File, View, Image, Set, and Help menus.
- Video Enhance Tool:** A toolbar with various icons for image processing and navigation.
- Program Control:** A panel on the right side containing X-Ray Control (kV, uA, watt, spot, Interlocks, Warm Up), Video Control (Auto Exposure, Filter Level), and Motion Control (X, Y, R, Cam, EMG, XRay coordinates).
- Measurement Tools:** A vertical toolbar on the left side for image analysis.
- X-Ray Power & System Status Indicator:** A panel in the top right showing real-time power and status.
- Video Control:** A panel in the middle right showing exposure and filter settings.
- Motion Control Panel:** A panel in the bottom right showing stage coordinates and movement controls.
- Mapping Camera Target:** A small inset window in the bottom right showing the camera's view of the sample.
- Stage View Panel Mapping Camera:** A larger inset window in the bottom right showing the stage view.
- Main Display Panel:** The central area showing the X-ray image of a grid of circular components.

X-Ray Tube

Tube Style	Closed Type
Tube Voltage	90kV / 110kV (Optional)
Tube Current	0.256 mA / 0.315 mA
Focal Spot Size	5 Micron
Tube Cooling	Forced Air
Geometric Magnification	150X
System Magnification	750X

Digital Flat Panel X-Ray Detector

Speed	30 FPS
Grayscale	14-bit (16,384 shades of grayscale)
Resolution	99 µm (1.2MP)

X-Ray Cabinet

Dimension	1180mm (L) x 1360mm (W) x 1650mm (H) 46.5" (L) x 53.5" (W) x 65" (H)
Sample Table Size	560mm (X) x 540mm (Y) 22" (X) x 21" (Y)
Sample Table Tilt	70 degree
Sample Table Movement	X Axis: 520mm, Y Axis: 500mm, Z Axis: 400mm X Axis: 20.5", Y Axis: 19.7", Z Axis: 15.8"
Weight	1100 kg (2425 lbs) Steel - Lead - Steel welded construction

Power

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

Operating System	Microsoft Windows 7 PRO
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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.



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SCIENSCOPE International Inc.

Business Hours Monday ~ Friday (8AM~5PM PST/PDT)

Phone (800) 216-1800 Toll-Free, (909) 590-7273

FAX (909) 494-5513

Address 5751 Schaefer Ave. Chino, CA 91710

Website <http://www.scienscope.com/>

E-Mail info@scienscope.com

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