X-RAY INSPECTION

SEAMARK AXI9000

High-Speed CT X-Ray Fully Automatic Inspection System

Inline 3D/CT | < 2 s per FOV | CT Resolution down to 6 µm/pixel | PCB up to 610 × 510 mm | In-House AI Algorithms



OVERVIEW

The **Seamark AXI9000** is a fully automatic high-speed 3D/CT X-ray inspection system for SMT and THT assemblies, built for inline use. Its 3D/CT reconstruction inspects one field of view in less than 2 seconds and finds hidden solder defects that 2D X-ray and AOI cannot separate, such as voids and open joints under BGAs or the fill rate of through-hole joints.

A sealed microfocus source (50–130 kV), a 1536 × 1536 flat panel detector and a three-layer gantry driven by linear motors deliver CT resolution of 6–50 µm/pixel on boards up to 610 × 510 mm.

KEY FEATURES

High-speed 3D/CT
unique reconstruction technology with inspection speed below 2 s per field of view

Intelligent inspection algorithms
in-house software for high-precision detection of open joints, voids and DIP fill rate

High-speed CT scanning
three-layer gantry driven by linear motors with grating scales

Flexible inspection
projection number and resolution can be combined to suit each application

Wide component range
BGA, POP, LGA, QFP, CSP, CHIP, QFN, DIP through-hole components and IGBT modules

Detected defects
missing components, misalignment, solder bridging, open joints, insufficient solder, voids, tombstoning and DIP fill rate

TECHNICAL SPECIFICATIONS

Inspection Method	High-speed 3D/CT
Inspection Speed	< 2 s per FOV
X-Ray Tube	Reflection-type sealed microfocus source
Tube Voltage	50–130 kV
Tube Current	0–500 µA
Max. Output Power	65 W
Detector	Flat panel detector, 1536 × 1536 pixels, 16-bit A/D, 30 fps (1×1)
Field of View	154 × 154 mm
Detector Resolution	5.0 Lp/mm
CT Resolution	6–50 µm/pixel (3 µm optional)
PCB Size	50 × 50 – 610 × 510 mm
PCB Thickness	0.5–10 mm
Component Height	Top ≤ 50 mm, bottom ≤ 40 mm
Scan Structure	Three-layer gantry with linear motors and grating scales
Control System	Professional GPU imaging workstation
X-Ray Leakage	< 0.5 µSv/h
Air Supply	0.45–0.65 MPa
Power Supply	220 V, 10 A, 50–60 Hz
Dimensions (L×W×H)	1630 × 1950 × 1600 mm
Net Weight	4000 kg

Configuration, demo and quotation

InterElectronic is the Seamark partner for Hungary and Central Europe: application advice, sample tests, installation, training and service.

InterElectronic Hungary, H-2461 Tárnok, Pacsírtamező street 3 D/1

Phone +36 30 296 45 05

Email info@interelectronic.com

Web www.interelectronic.com

Specifications according to Seamark. Subject to change without notice.