

Global Semiconductor and Electronics X-Ray Inspection System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor and Electronics X-Ray Inspection System market size is expected to reach \$ 832 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global Semiconductor and Electronics X-Ray Inspection System production reached approximately 2,961 units, with an average global market price of around K US\$ 146.84 per unit.

X-ray inspection equipment can perform comprehensive inspection of PCBs, detecting defects not only on the surface but also internally. This inspection method is highly precise, capable of detecting minute defects and deformations, and is more reliable and accurate than traditional visual and mechanical inspection.

In the electronics manufacturing industry, X-ray inspection equipment has become a commonly used inspection tool. It can be applied to various types of PCBs, including single-layer, double-layer, and multi-layer PCBAs, as well as various types of electronic components such as chips, capacitors, and inductors. X-ray inspection equipment is also used in the assembly and repair of electronic products to ensure their quality and reliability.

Currently, AXI inspection technology is widely used in product inspection in industries such as lithium batteries, semiconductors, solar photovoltaics, integrated circuits, electronics manufacturing, PCBs, LEDs, and die castings.

In this report, Semiconductor and Electronics X-Ray Inspection System mainly refers to X-ray inspection equipment used in the PCB and semiconductor industries.

Semiconductor and Electronics X-Ray Inspection System comprises non-destructive inspection and quality-data systems used across electronics manufacturing (PCB/PCBA, semiconductor packaging/assembly, power modules, connectors, and precision devices). It combines an X-ray source (microfocus/high-power), high-

resolution detectors, precision motion and shielding, with 2D radiography, 2.5D tomosynthesis/laminography, and 3D CT reconstruction plus automated defect recognition and quantitative analytics. It addresses hidden internal defects that optical inspection cannot reliably judge, including solder voiding/insufficient solder, bridging, cracks and foreign materials in hidden joints (BGA/QFN/Flip-Chip), and registration/via-related issues in multilayer/HDI/substrate boards. As advanced packaging becomes miniaturized, stacked and high-density, CT capability, AI-assisted decisioning, and closed-loop traceability data increasingly form the foundation of high-reliability delivery. The dominant manufacturing model is 'modular platform + application-engineering delivery.' OEMs platformize the tube/detector/motion/shielding and industrial computing chain, then configure 2D/2.5D/3D CT and in-line/off-line deployment, build defect libraries and decision rules, and complete radiation safety and metrology calibration, process capability validation, and MES/QMS traceability integration. Leaders differentiate via software capability, faster NPI/delivery, and continual upgrades in imaging software and tube/detector technology.

Gross margin is commonly ~35%-55%, trending higher with CT capability, richer software/AI licensing, and higher service/spares penetration (industry estimate).

The value chain spans upstream components (X-ray tubes & HV, detectors, motion/shielding, industrial computing, reconstruction/AI), midstream system integration and inspection/SPC software plus service, and downstream PCB & SMT/EMS, semiconductor packaging/modules, automotive & EV power modules, consumer/comms manufacturing, and FA/3rd-party labs. Government programs accelerating electronics manufacturing digital transformation reinforce long-term demand for in-line inspection and data-driven traceability.

Market Development Opportunities & Drivers / Challenges & Risks / Downstream Demand Trends

Electronics manufacturing is entering a re-pricing cycle driven by high-density interconnect and high-reliability delivery. Brokerage research indicates AI servers add GPU board sets and raise bandwidth requirements, pushing PCB layer counts and manufacturing requirements upward; the cost of hidden defects rises accordingly, making X-ray inspection a process-critical quality infrastructure rather than a sampling tool. In parallel, advanced packaging formats (BGA/CSP/Flip-Chip/QFN) increasingly rely on hidden joint integrity, and research notes that defects beyond optical coverage require X-ray inspection, accelerating penetration of AXI/CT-type solutions in high-end electronics. Government targets for digital transformation and key-process automation further strengthen the long-term certainty of in-line inspection and end-to-end traceability investment.

Barriers are not limited to imaging hardware but extend to engineering industrialization and scalable delivery. Stable tubes/detectors and precision motion set the imaging

ceiling, demanding supply-chain consistency and rigorous reliability validation.

Meanwhile, 3D/CT reconstruction and automated judgment require high-quality labeled data and process priors, creating cold-start, misclassification, and maintenance costs when scaling across customers. Annual-report disclosures also show accelerated investment in software capability and tube/detector technology upgrades, alongside shorter development cycles?raising the bar for sustained R&D and organizational execution. Radiation safety, metrology, line-stop risk, and global service capability also materially affect purchasing decisions and acceptance cycles.

Demand is shifting from ?seeing defects? to ?quantifying defects and closing the loop.? In-line, 2D remains essential for throughput screening, while 2.5D/3D CT adoption grows to enhance layer separation and quantitative capability?especially for voiding distributions, crack morphology, foreign-material localization, and batch traceability?driving deeper integration with SPC and root-cause analytics. Off-line CT and failure analysis are moving earlier into NPI to accelerate yield ramp. Meanwhile, next-generation systems emphasize software capability and imaging-chain upgrades, signaling competition shifting from single-image clarity toward decision consistency, low false calls, traceability, and replicable deployment excellence.

Global key Semiconductor and Electronics X-Ray Inspection System players cover ViTrox, Viscom, Nordson, Omron, Unicomp Technology, NIKON, Waygate Technologies (Baker Hughes), Comet Yxlon, Test Research Inc. (TRI), Seamark ZM, Zhengye Technology, ZEISS, Saki Corporation, XAVIS Co., Ltd., SEC, Techvalley, Goepel Electronic, Scienscope, SXRAY, Creative Electron, etc. In terms of revenue, the global three largest companies occupies occupied for a share nearly 39% in 2025. This report studies the global Semiconductor and Electronics X-Ray Inspection System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor and Electronics X-Ray Inspection System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor and Electronics X-Ray Inspection System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor and Electronics X-Ray Inspection System total production and demand, 2021-2032, (Units)

Global Semiconductor and Electronics X-Ray Inspection System total production value, 2021-2032, (USD Million)

Global Semiconductor and Electronics X-Ray Inspection System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Semiconductor and Electronics X-Ray Inspection System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Semiconductor and Electronics X-Ray Inspection System domestic production, consumption, key domestic manufacturers and share

Global Semiconductor and Electronics X-Ray Inspection System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Semiconductor and Electronics X-Ray Inspection System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Semiconductor and Electronics X-Ray Inspection System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Semiconductor and Electronics X-Ray Inspection System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ViTrox, Viscom, Nordson, Omron, Unicomp Technology, NIKON, Waygate Technologies (Baker Hughes), Comet Yxlon, Test Research Inc. (TRI), Seamark ZM, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor and Electronics X-Ray Inspection System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Semiconductor and Electronics X-Ray Inspection System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor and Electronics X-Ray Inspection System Market, Segmentation by Type:

Inline X-ray Inspection Equipment

Offline X-ray Inspection Equipment

Global Semiconductor and Electronics X-Ray Inspection System Market, Segmentation by Technology Type:

2D X-ray Inspection Equipment

3D X-ray Inspection Equipment

Global Semiconductor and Electronics X-Ray Inspection System Market, Segmentation by Production Line Type:

Large-volume Production

Prototype and Small Quantities

Global Semiconductor and Electronics X-Ray Inspection System Market, Segmentation by Application:

PCB Inspection

BGA Inspection

QFN, DFN, LGA Testing

Wafer Inspection

Others

Companies Profiled:

ViTrox

Viscom

Nordson

Omron

Unicomp Technology

NIKON

Waygate Technologies (Baker Hughes)

Comet Yxlon

Test Research Inc. (TRI)

Seamark ZM

Zhengye Technology

ZEISS

Saki Corporation

XAVIS Co., Ltd.

SEC

Techvalley

Goepel Electronic

Scienscope

SXRAY

Creative Electron

Key Questions Answered:

1. How big is the global Semiconductor and Electronics X-Ray Inspection System market?
2. What is the demand of the global Semiconductor and Electronics X-Ray Inspection System market?
3. What is the year over year growth of the global Semiconductor and Electronics X-Ray Inspection System market?
4. What is the production and production value of the global Semiconductor and Electronics X-Ray Inspection System market?
5. Who are the key producers in the global Semiconductor and Electronics X-Ray Inspection System market?
6. What are the growth factors driving the market demand?

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