

Global Automated X-ray Inspection Systems Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Automated X-ray Inspection Systems market size was valued at US\$ 630 million in 2024 and is forecast to a readjusted size of USD 1081 million by 2031 with a CAGR of 8.1% during review period.

X-ray inspection technology, commonly referred to as automated X-ray inspection (AXI), is a technique used to examine hidden features of target objects or products that use X-rays as a source. Generally, there are manual x-ray inspection and automated X-ray inspection, we only focus on the automated X-ray inspection (AXI) market.

In the SMT industry, Automated X-ray inspection, or AXI, is a technology that uses X-rays to examine the features of a printed circuit board, semiconductor package, or power modules that are hidden from view and therefore cannot be captured by automated optical inspection (AOI), which uses visible light as its source.

X-ray inspection is also widely used in lots of applications such as medical, industrial control, and aerospace for control the quality of board assemblies and to analyze defects of hidden solder joints. X-ray has a unique advantage that is materials absorb X-rays proportional to their atomic weight and all materials absorb the X-ray radiation differently depending on their density, atomic number and thickness. Generally speaking, materials made of heavier elements absorb more X-rays and are easily imaged, while materials made of lighter elements are more transparent to X-rays.

At present, AXI technology has been widely used in product detection in lithium battery, semiconductor, solar photovoltaic, integrated circuit, electronic manufacturing, PCB,

LED, die casting and other industries.

Automated X-ray Inspection (AXI) Systems are a crucial part of quality control and assurance in various industries, particularly in electronics manufacturing, automotive, aerospace, and medical devices. AXI Systems use X-ray technology to inspect and identify defects in electronic components, printed circuit boards (PCBs), and assemblies. Here are some key aspects related to the Automated X-ray Inspection (AXI) Systems market:

Market Overview:

The Automated X-ray Inspection (AXI) Systems market involves the development, manufacturing, and implementation of automated X-ray inspection equipment designed to detect defects and ensure the quality of electronic components and assemblies.

Growth Driven by Quality Assurance Needs:

The need for high-quality and defect-free electronic components, especially in critical applications, drives the demand for advanced AXI Systems to ensure stringent quality assurance.

Technological Advancements:

The AXI Systems market is experiencing rapid technological advancements, including higher resolution imaging, faster inspection speeds, 3D imaging capabilities, and enhanced defect detection algorithms.

3D X-ray Inspection:

The integration of 3D X-ray inspection capabilities in AXI Systems allows for a more comprehensive analysis of components, enabling the detection of both external and internal defects.

Integration of AI and Machine Learning:

AI and machine learning are increasingly being integrated into AXI Systems to enhance defect detection and analysis, automate decision-making, and improve overall inspection accuracy and efficiency.

Industry 4.0 Integration:

AXI Systems are being integrated into Industry 4.0 principles, connecting with other production systems and leveraging data analytics to enable predictive maintenance, process optimization, and enhanced quality control.

Application across Industries:

AXI Systems find applications in electronics manufacturing (PCBs, semiconductors), automotive (control units, sensors), aerospace (avionics), medical devices (implantable devices, medical imaging), and other industries where precise and reliable inspection is critical.

Regulatory Compliance:

Compliance with regulatory standards and industry-specific quality requirements is a key consideration in the development and implementation of AXI Systems, ensuring products meet the necessary quality and safety standards.

Demand for Miniaturization:

The trend towards miniaturization of electronic components drives the need for high-resolution AXI Systems capable of inspecting tiny components and ensuring their accurate placement and soldering.

Cost-Effectiveness:

Manufacturers seek cost-effective AXI solutions that provide high accuracy and reliability in defect detection without compromising cost-efficiency, promoting a balance between quality and affordability.

Market Competitiveness:

The AXI Systems market is highly competitive, with key players striving to innovate and offer differentiated products to meet the evolving demands of industries for reliable and efficient inspection solutions.

Global Market Growth:

The AXI Systems market is experiencing growth globally, with significant advancements and deployments observed in regions such as North America, Europe, Asia-Pacific, and other emerging markets.

This report is a detailed and comprehensive analysis for global Automated X-ray Inspection Systems market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automated X-ray Inspection Systems market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Automated X-ray Inspection Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Automated X-ray Inspection Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Automated X-ray Inspection Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Automated X-ray Inspection Systems
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Automated X-ray Inspection Systems market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ViTrox Corporation, Omron,

Nordson, Viscom, NIKON, Innometry, Comet Yxlon, Unicomp Technology, Zhengye Technology, Waygate Technologies (Baker Hughes), etc.

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

Market Segmentation

Automated X-ray Inspection Systems market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

2D AXI

3D AXI

Market segment by Application

PCB Industry

Integrated Circuits

Battery Industry

LED & Casting

Others

Major players covered

ViTrox Corporation

Omron

Nordson

Viscom

NIKON

Innometry

Comet Yxlon

Unicomp Technology

Zhengye Technology

Waygate Technologies (Baker Hughes)

Test Research Inc. (TRI)

DC Precision

Saki Corporation

ZEISS

Techvalley

SEC

Seamark ZM

Goepel Electronic

Scienscope

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automated X-ray Inspection Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automated X-ray Inspection Systems, with price, sales quantity, revenue, and global market share of Automated X-ray Inspection Systems from 2020 to 2025.

Chapter 3, the Automated X-ray Inspection Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automated X-ray Inspection Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Automated X-ray Inspection Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automated X-ray Inspection Systems.

Chapter 14 and 15, to describe Automated X-ray Inspection Systems sales channel, distributors, customers, research findings and conclusion.

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