

Global X-ray Inspection Systems Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global X-ray Inspection Systems market size was valued at US\$ 1414 million in 2025 and is forecast to a readjusted size of US\$ 2070 million by 2032 with a CAGR of 5.3% during review period.

In 2025, global X-ray Inspection Machines production reached approximately 12,500 units.

X-ray Inspection Systems are systematic solutions for non-destructive testing and analysis of the internal structure of targets based on the principle of X-ray penetration imaging. These systems typically consist of an X-ray source, detector, motion control platform, and image processing software. By imaging differences in X-ray attenuation, they identify internal defects, structural anomalies, and foreign objects. Depending on the application and technology approach, they can be divided into 2D X-ray imaging systems, 3D CT (Computed Tomography) systems, and Automated X-ray Inspection (AXI) systems. Compared to standalone equipment, 'systems' emphasize hardware and software integration and production line integration capabilities, enabling online inspection and data traceability. They are widely used in semiconductor packaging, PCB, battery, automotive parts, aerospace, and food safety, and are a crucial infrastructure for quality control in advanced manufacturing.

The X-ray Inspection Systems industry chain consists of upstream core components, midstream system integration, and downstream applications. The upstream sector includes X-ray sources (microfocus/nanofocus), detectors (flat panel detectors, linear array detectors), high-voltage power supplies, precision motion systems, and image algorithm software, with X-ray sources and detectors having the highest technological

barriers. The midstream sector comprises system integrators and equipment manufacturers, such as ZEISS, Nikon Metrology, Waygate Technologies, Nordson, and Omron, providing standardized and customized solutions. Downstream applications cover fields such as electronics manufacturing, new energy (power batteries), automotive industry, aerospace, food inspection, and public safety. With the development of high-end manufacturing, customers' demands for high resolution, automation, and datafication are increasing, driving the industry chain towards higher precision and intelligence.

Global key manufacturers of X-ray inspection systems include YXLON International, Nikon Metrology, Nordson, ZEISS, etc.

The X-ray Inspection Systems market is expanding steadily, driven by the upgrading of advanced manufacturing and increasing safety requirements. In the electronics sector, advanced packaging and high-density PCBs are accelerating demand for automated X-ray inspection (AXI) systems. In the new energy sector, stricter safety standards for lithium-ion batteries are boosting adoption. In automotive and aerospace industries, higher reliability requirements are further expanding market applications. In food and security sectors, regulatory tightening and safety awareness are supporting stable growth. From a technology perspective, 3D CT and inline CT systems are becoming key high-end solutions, while AI-driven defect recognition and data analytics are improving automation and efficiency. Regionally, Asia represents the largest demand market, while Europe and North America lead in high-end technologies. Over the next 5-10 years, the industry is expected to evolve toward higher resolution, faster throughput, and intelligent inspection, maintaining solid growth momentum.

This report is a detailed and comprehensive analysis for global 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 X-ray Inspection Systems market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global 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), 2021-2032

Global 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), 2021-2032

Global X-ray Inspection Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

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 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 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 Comet Yxlon, Nikon Metrology, Nordson, ZEISS, Unicomp Technology, Waygate Technologie, Anritsu Industrial Solutions, Viscom, North Star Imaging, Toshiba, etc.

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

Market Segmentation

X-ray Inspection Systems market is split by Type and by Application. For the period 2021-2032, 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 X-Ray System

3D X-Ray System

Market segment by X-Ray Source

Microfocus X-Ray Inspection System

Nanofocus X-Ray Inspection System

High Energy X-Ray Inspection System

Market segment by Structure

Inline Type

Offline

Market segment by Application

General Industry

Automotive Industry

Electronics and Semiconductor Industry

Lithium Battery Industry

Food and Pharmaceutical Packaging

Others

Major players covered

Comet Yxlon

Nikon Metrology

Nordson

ZEISS

Unicomp Technology

Waygate Technologie

Anritsu Industrial Solutions

Viscom

North Star Imaging

Toshiba

Omron

Ishida

Mettler-Toledo International

Sanying Precision Instruments Co., Ltd

ViTrox Corporation

SEC Co.,Ltd

Innometry

Saki Corporation

XAVIS Co., Ltd

Test Research Inc. (TRI)

Meyer Advanced Optoelectronic Technology

VJ Technologies

Dandong Aolong Group Co., Ltd

Sesotec GmbH

Guangdong Zhengye Technology Co., Ltd

Loma

VisiConsult

Dandong Huaray

Shimadzu

Rigaku

SOFTEX

Nissin Electronics

MARS TOHKEN

MinebeaMitsumi Inc

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 X-ray Inspection Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of X-ray Inspection Systems, with price, sales quantity, revenue, and global market share of X-ray Inspection Systems from 2021 to 2026.

Chapter 3, the 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 X-ray Inspection Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and X-ray Inspection Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 X-ray Inspection Systems.

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

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