

# Global 2D and 3D X-ray (CT) Inspection Systems Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 2D and 3D X-ray (CT) Inspection Systems market size is expected to reach \$ 2070 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

In 2025, global 2D and 3D X-ray (CT) Inspection Systems production reached approximately 12,500 units .

2D and 3D (CT) X-ray inspection systems are non-destructive testing solutions based on X-ray imaging technology. 2D X-ray systems, using single-angle perspective imaging, are suitable for rapidly detecting internal structural defects such as solder joint voids, foreign objects, and cracks. They are characterized by high inspection speed and low cost, and are widely used in electronics manufacturing and food inspection. 3D X-ray (CT) systems, on the other hand, generate three-dimensional volumetric images of the object under test through multi-angle scanning and reconstruction algorithms. This enables tomographic analysis and precise measurement of internal structures, making them suitable for complex structures and high-reliability scenarios, such as semiconductor packaging, batteries, and aerospace components. Compared to 2D systems, CT systems have advantages in resolution and analytical depth, but their equipment cost and inspection time are higher. Together, they constitute a complete technological system from online inspection to failure analysis.

The 2D and 3D (CT) X-ray inspection system industry chain consists of upstream core components, midstream system integration, and downstream applications. Upstream components include X-ray sources (micro-focus/nano-focus, with CT requiring higher stability), detectors (mainly flat panel detectors), high-voltage power supplies, precision motion control systems, and image reconstruction algorithm software. CT systems, in

particular, are more dependent on algorithms and computing power. The midstream consists of equipment manufacturers and system integrators, such as ZEISS, Nikon Metrology, Waygate Technologies, Nordson, and YXLON International, providing 2D and CT systems and customized solutions. Downstream applications cover electronics (PCB/packaging), new energy batteries, automotive castings, aerospace, and scientific research. As application complexity increases, the industry chain is upgrading towards higher resolution, higher computing power, and system integration capabilities.

The 2D and 3D (CT) X-ray inspection system markets are showing a tiered growth trend. 2D systems, due to their low cost and high inspection speed, continue to be widely used in electronics manufacturing and food inspection; while 3D CT systems are benefiting from increased demand in high-end manufacturing, experiencing rapid growth in fields such as advanced semiconductor packaging, power batteries, and aerospace. As product complexity increases, traditional 2D inspection is gradually upgrading to 3D and inline CT to achieve higher accuracy and more comprehensive defect analysis. From a technological perspective, the application of AI algorithms in defect identification is deepening, while inline CT is gradually becoming commercialized, driving the shift from sampling inspection to full inspection. Regionally, Asia is the main demand market, while Europe and the United States still hold a technological advantage in the high-end CT equipment sector. In the next 5-10 years, the growth rate of CT systems will significantly exceed that of 2D systems, becoming the core growth engine of the industry.

This report studies the global 2D and 3D X-ray (CT) Inspection Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 2D and 3D X-ray (CT) Inspection Systems 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 2D and 3D X-ray (CT) Inspection Systems that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global 2D and 3D X-ray (CT) Inspection Systems total production and demand, 2021-2032, (Units)

Global 2D and 3D X-ray (CT) Inspection Systems total production value, 2021-2032, (USD Million)

Global 2D and 3D X-ray (CT) Inspection Systems production by region & country,

production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global 2D and 3D X-ray (CT) Inspection Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: 2D and 3D X-ray (CT) Inspection Systems domestic production, consumption, key domestic manufacturers and share

Global 2D and 3D X-ray (CT) Inspection Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global 2D and 3D X-ray (CT) Inspection Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global 2D and 3D X-ray (CT) Inspection Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global 2D and 3D X-ray (CT) Inspection Systems 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 2D and 3D X-ray (CT) Inspection Systems 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 2D and 3D X-ray (CT) Inspection Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 2D and 3D X-ray (CT) Inspection Systems Market, Segmentation by Type:

2D X-ray System

3D X-ray System

Global 2D and 3D X-ray (CT) Inspection Systems Market, Segmentation by X-Ray Source:

Microfocus X-Ray Inspection System

Nanofocus X-Ray Inspection System

High Energy X-Ray Inspection System

Global 2D and 3D X-ray (CT) Inspection Systems Market, Segmentation by Structure:

Inline Type

Offline

Global 2D and 3D X-ray (CT) Inspection Systems Market, Segmentation by Application:

General Industry

Automotive Industry

Electronics and Semiconductor Industry

Lithium Battery Industry

Food and Pharmaceutical Packaging

Others

Companies Profiled:

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

**Key Questions Answered:**

1. How big is the global 2D and 3D X-ray (CT) Inspection Systems market?
2. What is the demand of the global 2D and 3D X-ray (CT) Inspection Systems market?
3. What is the year over year growth of the global 2D and 3D X-ray (CT) Inspection Systems market?
4. What is the production and production value of the global 2D and 3D X-ray (CT) Inspection Systems market?
5. Who are the key producers in the global 2D and 3D X-ray (CT) Inspection Systems market?
6. What are the growth factors driving the market demand?

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