

X-ray Inspection Systems Market for Electronics & Semiconductors by Component (Hardware, Software, Services, Consumables), Imaging Technique (Film-based Imaging, Digital Imaging), Dimension (2D X-ray, 3D X-ray), Application, and Geography - Global Forecast to 2029

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Abstracts

X-ray Inspection Systems Market for Electronics & Semiconductors by Component (Hardware, Software, Services, Consumables), Imaging Technique (Film-based Imaging, Digital Imaging), Dimension (2D X-ray, 3D X-ray), Application, and Geography—Forecast to 2029

The research report titled 'X-ray Inspection Systems Market for Electronics & Semiconductors by Component (Hardware, Software, Services, Consumables), Imaging Technique (Film-based Imaging, Digital Imaging), Dimension (2D X-ray, 3D X-ray), Application, and Geography—Forecast to 2029' provides an in-depth analysis of the X-ray inspection systems market for electronics & semiconductors across five major geographies and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecasts till 2029. The X-ray Inspection Systems Market for Electronics & Semiconductors is expected to reach a value of \$772.8 million by 2029, at a CAGR of 11.0% during the forecast period 2022–2029.

Stringent government regulations for asset safety, increasing consumer awareness regarding quality standards, and the large-scale digitalization, automation, and miniaturization of electronic devices are driving the growth of the X-ray inspection systems market for electronics & semiconductors. Increasing automation of digital X-ray inspection systems, miniaturization of X-ray inspection systems for higher mobility, and

the increasing user-friendliness of X-ray inspection systems due to technological advancements in hardware offer lucrative growth opportunities for the players operating in this market

The study includes a comprehensive analysis of the X-ray inspection systems market for electronics & semiconductors based on component (hardware, software, services, consumables), imaging technique (film-based imaging, digital imaging), dimension (2D X-ray, 3D X-ray), application, and geography. The study also evaluates industry competitors and analyzes the market at the regional and country levels.

Based on component, the X-ray inspection systems market for electronics & semiconductors is segmented into hardware, software, services, and consumables. In 2022, the hardware segment is expected to account for the largest share of the X-ray inspection systems market for electronics & semiconductors. The segment's large share is mainly attributed to the growing adoption of X-ray inspection systems hardware across various industries due to technological advancements in radiation sources, tubes, and flat-panel detectors.

Based on imaging technique, the X-ray inspection systems market for electronics & semiconductors is segmented into film-based imaging and digital imaging. The digital imaging segment is further subsegmented into direct radiography, computed tomography, and computed radiography. In 2022, the digital imaging segment is expected to account for the largest share of the X-ray inspection systems market for electronics & semiconductors. The segment's large share is mainly attributed to the advantages of digital imaging, such as the mitigation of chemical hazards associated with X-ray processes, lower radiation requirement for image production, enhanced image quality, faster processing time, quick image sharing & easy storage, and lower operation & maintenance costs.

Based on dimension, the X-ray inspection systems market for electronics & semiconductors is segmented into 2D X-ray systems and 3D X-ray systems. In 2022, the 2D X-ray systems segment is expected to account for the larger share of the X-ray inspection systems market for electronics & semiconductors. The segment's large share is attributed to the growing adoption of 2D X-ray systems due to their minimal radiation emissions and lower operating costs.

Based on application, the X-ray inspection systems market for electronics & semiconductors is segmented into PCB inspection, automated optical inspection, wafer inspection & packaging, solder joint inspection, advanced logic & memory, advanced

power (GAN & SIC), displays & touch panels, electronic components inspection, RF & OPTO led devices, solar, and others application. In 2022, the PCB inspection segment is expected to account for the largest share of the X-ray inspection systems market for electronics & semiconductors. As printed circuit boards have various complex electrical parts, it is important to test PCBs for any possible faults or defects that may lead to malfunction. Each component must be monitored and tested to ensure that PCBs work to their full potential. This factor drives the use of X-ray inspection systems in PCB inspection.

Geographically, the market is segmented into five major regions—Asia-Pacific, Europe, North America, Latin America, and the Middle East & Africa. In 2022, Asia-Pacific is expected to account for the largest share of the X-ray inspection systems market for electronics & semiconductors. The growth of this regional market is attributed to the increasing demand for remote visual inspection of assets in the electronics industry and stringent government safety regulations in Asia-Pacific.

The key players operating in the X-ray inspection systems market for electronics & semiconductors are North Star Imaging Inc. (U.S.), Nikon Metrology, Inc. (U.S.), Nordson Corporation (U.S.), YXLON International GmbH (Germany), VJ Group, Inc. (U.S.), Mettler Toledo International Inc. (U.S.), Ametek, Inc. (U.S.), Viscom AG (Germany), ViTrox Corporation Berhad (Malaysia), Test Research, Inc. (Taiwan), Baker Hughes Company (U.S.), Saki Corporation (Japan), Shenzhen Unicomp Technology Co., Ltd. (China), G?PEL electronic GmbH (Germany), and Scienscope International (U.S.).

Key Questions Answered in the Report-

Which are the high-growth market segments in terms of component, imaging technique, dimension, application, and geography?

What is the historical market size of the X-ray inspection systems market for electronics & semiconductors?

What are the market forecasts and estimates for 2022–2029?

What are the major drivers, restraints, opportunities, and challenges in the X-ray inspection systems market for electronics & semiconductors?

Who are the major players in the market, and what share of the market do they

hold?

How is the competitive landscape for the X-ray inspection systems market for electronics & semiconductors?

What are the recent developments in the X-ray inspection systems market for electronics & semiconductors?

What are the various strategies adopted by the major players operating in this market?

What are the key geographic trends, and which are the high-growth countries?

Who are the local emerging players in the X-ray inspection systems market for electronics & semiconductors, and how do they compete with the established players?

Scope of the Report

X-ray Inspection Systems Market for Electronics & Semiconductors, by Component

Hardware

Software

Services

Consumables

X-ray Inspection Systems Market for Electronics & Semiconductors, by Imaging Technique

Digital Imaging

Direct Radiography

Computed Radiography

Computed Tomography

Film-based Imaging

X-ray Inspection Systems Market for Electronics & Semiconductors, by Dimension

2D X-ray Systems

3D X-ray Systems

X-ray Inspection Systems Market for Electronics & Semiconductors, by Application

PCB Inspection

Automated Optical Inspection

Wafer Inspection & Packaging

Failure Analysis

Layer Analysis

Silicon QC

Impurity Analysis

Solder Joint Inspection

Advanced Logic & Memory

Crystalline Defect Inspection

Nanosheet Development

PCRAM Thickness and Composition

Advanced Power (GAN & SIC)

GaN-on-SI Power Device Metrology

SiC Defect Detection

Displays & Touch Panels

Electronic Components Inspection

PCB Thickness and Composition

Restricted Materials Screening (ROHS)

RF & OPTO LED Devices

Solar

Shallow Impurities in Silicon

Thin Film Elemental Analysis

Silicon Quality Control

Passivation Layers

Other Applications

X-ray Inspection Systems Market for Electronics & Semiconductors, by Geography

Asia-Pacific

China

Japan

South Korea

India

Australia

ASEAN Countries

Rest of Asia-Pacific

Europe

Germany

U.K.

France

Italy

Spain

Rest of Europe (RoE)

North America

U.S.

Canada

Latin America

Middle East & Africa

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