

Global Automated X-ray Inspection Systems Market Growth 2022-2028

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Abstracts

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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.

The global market for Automated X-ray Inspection Systems is estimated to increase from US\$ million in 2021 to reach US\$ million by 2028, exhibiting a CAGR of % during

2022-2028. Keeping in mind the uncertainties of COVID-19 and Russia-Ukraine War, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

The APAC Automated X-ray Inspection Systems market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The United States Automated X-ray Inspection Systems market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The Europe Automated X-ray Inspection Systems market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The China Automated X-ray Inspection Systems market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

Global key Automated X-ray Inspection Systems players cover ViTrox Corporation, Omron, Nordson, Viscom and NIKON, etc. In terms of revenue, the global largest two companies occupy a share nearly % in 2021.

Report Coverage

This latest report provides a deep insight into the global Automated X-ray Inspection Systems market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, value chain analysis, etc.

This report aims to provide a comprehensive picture of the global Automated X-ray Inspection Systems market, with both quantitative and qualitative data, to help readers understand how the Automated X-ray Inspection Systems market scenario changed across the globe during the pandemic and Russia-Ukraine War.

The base year considered for analyses is 2021, while the market estimates and forecasts are given from 2022 to 2028. The market estimates are provided in terms of revenue in USD millions and volume in Units.

Market Segmentation:

The study segments the Automated X-ray Inspection Systems market and forecasts the market size by Type (2D AXI and 3D AXI), by Application (PCB Industry, Integrated Circuits, Battery Industry and LED & Casting), and region (APAC, Americas, Europe, and Middle East & Africa).

Segmentation by type

2D AXI

3D AXI

Segmentation by application

PCB Industry

Integrated Circuits

Battery Industry

LED & Casting

Others

Segmentation by region

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

Major companies 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

Chapter Introduction

Chapter 1: Scope of Automated X-ray Inspection Systems, Research Methodology, etc.

Chapter 2: Executive Summary, global Automated X-ray Inspection Systems market size (sales and revenue) and CAGR, Automated X-ray Inspection Systems market size by region, by type, by application, historical data from 2017 to 2022, and forecast to 2028.

Chapter 3: Automated X-ray Inspection Systems sales, revenue, average price, global market share, and industry ranking by company, 2017-2022

Chapter 4: Global Automated X-ray Inspection Systems sales and revenue by region and by country. Country specific data and market value analysis for the U.S., Canada, Europe, China, Japan, South Korea, Southeast Asia, India, Latin America and Middle East & Africa.

Chapter 5, 6, 7, 8: Americas, APAC, Europe, Middle East & Africa, sales segment by country, by type, and type.

Chapter 9: Analysis of the current market trends, market forecast, opportunities and economic trends that are affecting the future marketplace

Chapter 10: Manufacturing cost structure analysis

Chapter 11: Sales channel, distributors, and customers

Chapter 12: Global Automated X-ray Inspection Systems market size forecast by region, by country, by type, and application.

Chapter 13: Comprehensive company profiles of the leading players, including ViTrox Corporation, Omron, Nordson, Viscom, NIKON, Innometry, Comet Yxlon, Unicomp Technology and Zhengye Technology, etc.

Chapter 14: Research Findings and Conclusion

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