

Global AI 3D AOI System 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 AI 3D AOI System market size was valued at US\$ 589 million in 2025 and is forecast to a readjusted size of US\$ 1397 million by 2032 with a CAGR of 13.3% during review period.

The AI 3D AOI system achieves high-precision and high-efficiency inspection of electronic products (such as printed circuit boards, PCBs, wafers, etc.) by combining AI algorithms and 3D AOI technology. The system can automatically identify and analyze tiny surface defects and interlayer problems, thereby improving the yield rate and production efficiency in the product manufacturing process. Unlike conventional 3D AOI systems, with the support of AI algorithm functions, the AOI system can intelligently interpret defects in images, classify and mark them, provide operators with intuitive inspection results, and improve the accuracy and efficiency of inspections.

This report is a detailed and comprehensive analysis for global AI 3D AOI System 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 AI 3D AOI System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global AI 3D AOI System 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 AI 3D AOI System 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 AI 3D AOI System 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 AI 3D AOI System

- 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 AI 3D AOI System 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 KOH YOUNG, Delvitech, OMRON Corporation, Mycronic, ViTrox Corporation, Zhejiang Qting, Shenzhen DCT Technology, Guangzhou Leichen Intelligent Equipment Co., Ltd, Shanghai Holly iMachine Co.,Ltd, Favorite, etc.

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

Market Segmentation

AI 3D AOI System 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

Online AOI

Offline AOI

Market segment by Application

Consumer Electronics

Communications

Automotive

Others

Major players covered

KOH YOUNG

Delvitech

OMRON Corporation

Mycronic

ViTrox Corporation

Zhejiang Qting

Shenzhen DCT Technology

Guangzhou Leichen Intelligent Equipment Co., Ltd

Shanghai Holly iMachine Co.,Ltd

Favorite

Shenzhen WTDynamics

Test Research Inc

Mirtec Co., Ltd.

Xiamen Sinic-Tek Intelligent Technology

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 AI 3D AOI System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI 3D AOI System, with price, sales quantity, revenue, and global market share of AI 3D AOI System from 2021 to 2026.

Chapter 3, the AI 3D AOI System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI 3D AOI System 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 AI 3D AOI System 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 AI 3D AOI System.

Chapter 14 and 15, to describe AI 3D AOI System sales channel, distributors, customers, research findings and conclusion.

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