

Global Automated Optical Inspection (AOI) Equipment Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Automated Optical Inspection (AOI) Equipment market size was valued at US\$ 1508 million in 2024 and is forecast to a readjusted size of USD 2987 million by 2031 with a CAGR of 10.4% during review period.

The full name of AOI is automatic optical inspection, which is based on optical principles to detect common defects encountered in welding production. AOI is a new type of testing technology emerging from the emerging world, but it has developed rapidly. Many manufacturers have introduced AOI testing equipment. When it is automatically detected, the machine automatically scans the PCB through the camera, collects images, and compares the solder joints tested with the qualified parameters in the database. After image processing, the defects on the PCB are checked, and the defects are displayed/marked through the display or automatic signs. Come out for repair by maintenance staff. This report introduce AOI Equipment.

As for Global Automated Optical Inspection (AOI) Equipment market, there are several key players, like Orbotech Ltd. (KLA), Omron Corporation, Wuhan Jingce Electronic and Nordson YESTECH. Global top 5 manufacturers hold a share over 45%. Asia-Pacific is the largest market, with a share over 60%, followed by Europe and North America, both have a share over 30 percent.

Automated Optical Inspection (AOI) Equipment can be divided into Inline and offline according to different working modes of the upper board. The technical requirements of Inline AOI are much higher than offline AOI, and it is an important indicator for judging the strength of AOI vendors. Inline AOI testing equipment is mainly used for Inline

automatic testing of SMT production lines, which can improve the production quality of SMT production lines in an all-round way. Therefore, the demand for Inline AOI testing equipment will increase year by year. In terms of product, inline AOI equipment is the largest segment, with a share about 70%.

At present, in developed countries, the 3D AOI industry is generally at a more advanced level. The world's large enterprises are mainly concentrated in South Korea and Other Asia countries, meanwhile, foreign companies have more advanced equipment, strong R & D capability, and leading technical level. However, foreign companies' manufacturing cost is relatively higher, compared with Chinese companies. With the development of Chinese 3D AOI production technology, their share in the international market is increasing, and competitiveness in the international market gradually increases.

The demand for AOI equipment in traditional industries has increased, and machine vision has become a trend instead of manual inspection. AOI equipment is moving towards more sophisticated and high speed. The growth rate of the PCB industry has slowed down, and the demand for stocks is greater than the increment. The FPD industry is developing at a high speed, and the market space for AOI testing equipment is increasing rapidly.

This report is a detailed and comprehensive analysis for global Automated Optical Inspection (AOI) Equipment 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 Automated Optical Inspection (AOI) Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Automated Optical Inspection (AOI) Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Automated Optical Inspection (AOI) Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Automated Optical Inspection (AOI) Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

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 Automated Optical Inspection (AOI) Equipment
To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global Automated Optical Inspection (AOI) Equipment 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 Orbotech Ltd. (KLA), Wuhan Jingce Electronic, Nordson YESTECH, Koh Young Technology, Omron Corporation, Test Research, Inc., Utechzone, Viscom AG, Machvision Inc., Saki Corporation, etc.

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

Market Segmentation

Automated Optical Inspection (AOI) Equipment market is split by Type and by Application. For the period 2020-2031, 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

Inline AOI Equipment

Offline AOI Equipment

Market segment by Application

PCB Industry

Panel Display Industry

Others

Major players covered

Orbotech Ltd. (KLA)

Wuhan Jingce Electronic

Nordson YESTECH

Koh Young Technology

Omron Corporation

Test Research, Inc.

Utechzone

Viscom AG

Machvision Inc.

Saki Corporation

CIMS

MEK Marantz Electronics Ltd.

JUTZE Intelligence Technology Co., Ltd.

Cyberoptics Corporation

ViTrox Corporation Berhad

Mycronic

Mirtec Co., Ltd.

Machine Vision Products, Inc.

Shenzhou Vision Technology(ALEADER)

Takano

Parmi Corp

ZhenHuaXing Technology (ShenZhen) Co., Ltd.

G?PEL electronic GmbH

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 Automated Optical Inspection (AOI) Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automated Optical Inspection (AOI) Equipment, with price, sales quantity, revenue, and global market share of Automated Optical Inspection (AOI) Equipment from 2020 to 2025.

Chapter 3, the Automated Optical Inspection (AOI) Equipment competitive situation,

sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automated Optical Inspection (AOI) Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Automated Optical Inspection (AOI) Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Automated Optical Inspection (AOI) Equipment.

Chapter 14 and 15, to describe Automated Optical Inspection (AOI) Equipment sales channel, distributors, customers, research findings and conclusion.

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