

Global 3D Automated Optical Inspection (AOI) Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global 3D Automated Optical Inspection (AOI) market size was valued at US\$ 433.5 million in 2023. With growing demand in downstream market, the 3D Automated Optical Inspection (AOI) is forecast to a readjusted size of US\$ 1270 million by 2030 with a CAGR of 16.6% during review period.

The research report highlights the growth potential of the global 3D Automated Optical Inspection (AOI) market. 3D Automated Optical Inspection (AOI) are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of 3D Automated Optical Inspection (AOI). Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the 3D Automated Optical Inspection (AOI) market.

3D 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. 3D AOI enables precise inspection and measurement of the height dimension of devices on the PCB and provides clear side-view images of ICs and various devices. 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.

The main 3D Automated Optical Inspection (AOI) players include Koh Young Technology, Mirtec, ViTrox Corporation Berhad, Saki Corporation, Cyberoptics Corporation, etc. The top five 3D Automated Optical Inspection (AOI) players account for approximately 64% of the total global market. Asia Pacific is the largest consumer market for 3D Automated Optical Inspection (AOI) accounting for about 69%, followed by North America and Europe. In terms of Type, Inline 3D AOI is the largest segment with a share of 87%. And in terms of Applications, the largest segment is PCB Industry, followed by Panel Display Industry.

Key Features:

The report on 3D Automated Optical Inspection (AOI) market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the 3D Automated Optical Inspection (AOI) market. It may include historical data, market segmentation by Type (e.g., Inline 3D AOI, Offline 3D AOI), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the 3D Automated Optical Inspection (AOI) market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the 3D Automated Optical Inspection (AOI) market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the 3D Automated Optical Inspection (AOI) industry. This include advancements in 3D Automated Optical Inspection (AOI) technology, 3D Automated Optical Inspection (AOI) new entrants, 3D Automated Optical Inspection (AOI) new investment, and other innovations that are shaping the future of 3D Automated Optical Inspection (AOI).

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the 3D Automated Optical Inspection

(AOI) market. It includes factors influencing customer ' purchasing decisions, preferences for 3D Automated Optical Inspection (AOI) product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the 3D Automated Optical Inspection (AOI) market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting 3D Automated Optical Inspection (AOI) market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the 3D Automated Optical Inspection (AOI) market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the 3D Automated Optical Inspection (AOI) industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the 3D Automated Optical Inspection (AOI) market.

Market Segmentation:

3D Automated Optical Inspection (AOI) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Inline 3D AOI

Offline 3D AOI

Segmentation by application

PCB Industry

Panel Display Industry

Other Industries (Semiconductors, Solar Cells, Medical, etc.)

This report also splits the market 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

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Koh Young Technology

Mirtec

ViTrox Corporation Berhad

Saki Corporation

Cyberoptics Corporation

Omron Corporation

Viscom

Test Research

Parmi Corp

VI Technology (Mycronic)

G?PEL electronic GmbH

Machine Vision Products (MVP)

Mek Marantz Electronics

Pemtron Corp.

Nordson YESTECH

JUTZE Intelligence Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global 3D Automated Optical Inspection (AOI) market?

What factors are driving 3D Automated Optical Inspection (AOI) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 3D Automated Optical Inspection (AOI) market opportunities vary by end market size?

How does 3D Automated Optical Inspection (AOI) break out type, application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global 3D Automated Optical Inspection (AOI) Annual Sales 2019-2030

- 2.1.2 World Current & Future Analysis for 3D Automated Optical Inspection (AOI) by Geographic Region, 2019, 2023 & 2030

- 2.1.3 World Current & Future Analysis for 3D Automated Optical Inspection (AOI) by Country/Region, 2019, 2023 & 2030

2.2 3D Automated Optical Inspection (AOI) Segment by Type

- 2.2.1 Inline 3D AOI

- 2.2.2 Offline 3D AOI

2.3 3D Automated Optical Inspection (AOI) Sales by Type

- 2.3.1 Global 3D Automated Optical Inspection (AOI) Sales Market Share by Type (2019-2024)

- 2.3.2 Global 3D Automated Optical Inspection (AOI) Revenue and Market Share by Type (2019-2024)

- 2.3.3 Global 3D Automated Optical Inspection (AOI) Sale Price by Type (2019-2024)

2.4 3D Automated Optical Inspection (AOI) Segment by Application

- 2.4.1 PCB Industry

- 2.4.2 Panel Display Industry

- 2.4.3 Other Industries (Semiconductors, Solar Cells, Medical, etc.)

2.5 3D Automated Optical Inspection (AOI) Sales by Application

- 2.5.1 Global 3D Automated Optical Inspection (AOI) Sale Market Share by Application (2019-2024)

- 2.5.2 Global 3D Automated Optical Inspection (AOI) Revenue and Market Share by Application (2019-2024)

2.5.3 Global 3D Automated Optical Inspection (AOI) Sale Price by Application (2019-2024)

3 GLOBAL 3D AUTOMATED OPTICAL INSPECTION (AOI) BY COMPANY

3.1 Global 3D Automated Optical Inspection (AOI) Breakdown Data by Company

3.1.1 Global 3D Automated Optical Inspection (AOI) Annual Sales by Company (2019-2024)

3.1.2 Global 3D Automated Optical Inspection (AOI) Sales Market Share by Company (2019-2024)

3.2 Global 3D Automated Optical Inspection (AOI) Annual Revenue by Company (2019-2024)

3.2.1 Global 3D Automated Optical Inspection (AOI) Revenue by Company (2019-2024)

3.2.2 Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Company (2019-2024)

3.3 Global 3D Automated Optical Inspection (AOI) Sale Price by Company

3.4 Key Manufacturers 3D Automated Optical Inspection (AOI) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers 3D Automated Optical Inspection (AOI) Product Location Distribution

3.4.2 Players 3D Automated Optical Inspection (AOI) Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR 3D AUTOMATED OPTICAL INSPECTION (AOI) BY GEOGRAPHIC REGION

4.1 World Historic 3D Automated Optical Inspection (AOI) Market Size by Geographic Region (2019-2024)

4.1.1 Global 3D Automated Optical Inspection (AOI) Annual Sales by Geographic Region (2019-2024)

4.1.2 Global 3D Automated Optical Inspection (AOI) Annual Revenue by Geographic Region (2019-2024)

4.2 World Historic 3D Automated Optical Inspection (AOI) Market Size by Country/Region (2019-2024)

4.2.1 Global 3D Automated Optical Inspection (AOI) Annual Sales by Country/Region (2019-2024)

4.2.2 Global 3D Automated Optical Inspection (AOI) Annual Revenue by Country/Region (2019-2024)

4.3 Americas 3D Automated Optical Inspection (AOI) Sales Growth

4.4 APAC 3D Automated Optical Inspection (AOI) Sales Growth

4.5 Europe 3D Automated Optical Inspection (AOI) Sales Growth

4.6 Middle East & Africa 3D Automated Optical Inspection (AOI) Sales Growth

5 AMERICAS

5.1 Americas 3D Automated Optical Inspection (AOI) Sales by Country

5.1.1 Americas 3D Automated Optical Inspection (AOI) Sales by Country (2019-2024)

5.1.2 Americas 3D Automated Optical Inspection (AOI) Revenue by Country (2019-2024)

5.2 Americas 3D Automated Optical Inspection (AOI) Sales by Type

5.3 Americas 3D Automated Optical Inspection (AOI) Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC 3D Automated Optical Inspection (AOI) Sales by Region

6.1.1 APAC 3D Automated Optical Inspection (AOI) Sales by Region (2019-2024)

6.1.2 APAC 3D Automated Optical Inspection (AOI) Revenue by Region (2019-2024)

6.2 APAC 3D Automated Optical Inspection (AOI) Sales by Type

6.3 APAC 3D Automated Optical Inspection (AOI) Sales by Application

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe 3D Automated Optical Inspection (AOI) by Country

7.1.1 Europe 3D Automated Optical Inspection (AOI) Sales by Country (2019-2024)

7.1.2 Europe 3D Automated Optical Inspection (AOI) Revenue by Country (2019-2024)

7.2 Europe 3D Automated Optical Inspection (AOI) Sales by Type

7.3 Europe 3D Automated Optical Inspection (AOI) Sales by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa 3D Automated Optical Inspection (AOI) by Country

8.1.1 Middle East & Africa 3D Automated Optical Inspection (AOI) Sales by Country (2019-2024)

8.1.2 Middle East & Africa 3D Automated Optical Inspection (AOI) Revenue by Country (2019-2024)

8.2 Middle East & Africa 3D Automated Optical Inspection (AOI) Sales by Type

8.3 Middle East & Africa 3D Automated Optical Inspection (AOI) Sales by Application

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of 3D Automated Optical Inspection (AOI)

10.3 Manufacturing Process Analysis of 3D Automated Optical Inspection (AOI)

10.4 Industry Chain Structure of 3D Automated Optical Inspection (AOI)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 3D Automated Optical Inspection (AOI) Distributors

11.3 3D Automated Optical Inspection (AOI) Customer

12 WORLD FORECAST REVIEW FOR 3D AUTOMATED OPTICAL INSPECTION (AOI) BY GEOGRAPHIC REGION

12.1 Global 3D Automated Optical Inspection (AOI) Market Size Forecast by Region

12.1.1 Global 3D Automated Optical Inspection (AOI) Forecast by Region (2025-2030)

12.1.2 Global 3D Automated Optical Inspection (AOI) Annual Revenue Forecast by Region (2025-2030)

12.2 Americas Forecast by Country

12.3 APAC Forecast by Region

12.4 Europe Forecast by Country

12.5 Middle East & Africa Forecast by Country

12.6 Global 3D Automated Optical Inspection (AOI) Forecast by Type

12.7 Global 3D Automated Optical Inspection (AOI) Forecast by Application

13 KEY PLAYERS ANALYSIS

13.1 Koh Young Technology

13.1.1 Koh Young Technology Company Information

13.1.2 Koh Young Technology 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

13.1.3 Koh Young Technology 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)

13.1.4 Koh Young Technology Main Business Overview

13.1.5 Koh Young Technology Latest Developments

13.2 Mirtec

13.2.1 Mirtec Company Information

13.2.2 Mirtec 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

13.2.3 Mirtec 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)

13.2.4 Mirtec Main Business Overview

- 13.2.5 Mirtec Latest Developments
- 13.3 ViTrox Corporation Berhad
 - 13.3.1 ViTrox Corporation Berhad Company Information
 - 13.3.2 ViTrox Corporation Berhad 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.3.3 ViTrox Corporation Berhad 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.3.4 ViTrox Corporation Berhad Main Business Overview
 - 13.3.5 ViTrox Corporation Berhad Latest Developments
- 13.4 Saki Corporation
 - 13.4.1 Saki Corporation Company Information
 - 13.4.2 Saki Corporation 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.4.3 Saki Corporation 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.4.4 Saki Corporation Main Business Overview
 - 13.4.5 Saki Corporation Latest Developments
- 13.5 Cyberoptics Corporation
 - 13.5.1 Cyberoptics Corporation Company Information
 - 13.5.2 Cyberoptics Corporation 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.5.3 Cyberoptics Corporation 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.5.4 Cyberoptics Corporation Main Business Overview
 - 13.5.5 Cyberoptics Corporation Latest Developments
- 13.6 Omron Corporation
 - 13.6.1 Omron Corporation Company Information
 - 13.6.2 Omron Corporation 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.6.3 Omron Corporation 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.6.4 Omron Corporation Main Business Overview
 - 13.6.5 Omron Corporation Latest Developments
- 13.7 Viscom
 - 13.7.1 Viscom Company Information
 - 13.7.2 Viscom 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.7.3 Viscom 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)

- 13.7.4 Viscom Main Business Overview
- 13.7.5 Viscom Latest Developments
- 13.8 Test Research
 - 13.8.1 Test Research Company Information
 - 13.8.2 Test Research 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.8.3 Test Research 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.8.4 Test Research Main Business Overview
 - 13.8.5 Test Research Latest Developments
- 13.9 Parmi Corp
 - 13.9.1 Parmi Corp Company Information
 - 13.9.2 Parmi Corp 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.9.3 Parmi Corp 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.9.4 Parmi Corp Main Business Overview
 - 13.9.5 Parmi Corp Latest Developments
- 13.10 VI Technology (Mycronic)
 - 13.10.1 VI Technology (Mycronic) Company Information
 - 13.10.2 VI Technology (Mycronic) 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.10.3 VI Technology (Mycronic) 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.10.4 VI Technology (Mycronic) Main Business Overview
 - 13.10.5 VI Technology (Mycronic) Latest Developments
- 13.11 G?PEL electronic GmbH
 - 13.11.1 G?PEL electronic GmbH Company Information
 - 13.11.2 G?PEL electronic GmbH 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.11.3 G?PEL electronic GmbH 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.11.4 G?PEL electronic GmbH Main Business Overview
 - 13.11.5 G?PEL electronic GmbH Latest Developments
- 13.12 Machine Vision Products (MVP)
 - 13.12.1 Machine Vision Products (MVP) Company Information
 - 13.12.2 Machine Vision Products (MVP) 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
 - 13.12.3 Machine Vision Products (MVP) 3D Automated Optical Inspection (AOI) Sales,

Revenue, Price and Gross Margin (2019-2024)

13.12.4 Machine Vision Products (MVP) Main Business Overview

13.12.5 Machine Vision Products (MVP) Latest Developments

13.13 Mek Marantz Electronics

13.13.1 Mek Marantz Electronics Company Information

13.13.2 Mek Marantz Electronics 3D Automated Optical Inspection (AOI) Product

Portfolios and Specifications

13.13.3 Mek Marantz Electronics 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)

13.13.4 Mek Marantz Electronics Main Business Overview

13.13.5 Mek Marantz Electronics Latest Developments

13.14 Pemtron Corp.

13.14.1 Pemtron Corp. Company Information

13.14.2 Pemtron Corp. 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

13.14.3 Pemtron Corp. 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)

13.14.4 Pemtron Corp. Main Business Overview

13.14.5 Pemtron Corp. Latest Developments

13.15 Nordson YESTECH

13.15.1 Nordson YESTECH Company Information

13.15.2 Nordson YESTECH 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

13.15.3 Nordson YESTECH 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)

13.15.4 Nordson YESTECH Main Business Overview

13.15.5 Nordson YESTECH Latest Developments

13.16 JUTZE Intelligence Technology

13.16.1 JUTZE Intelligence Technology Company Information

13.16.2 JUTZE Intelligence Technology 3D Automated Optical Inspection (AOI)

Product Portfolios and Specifications

13.16.3 JUTZE Intelligence Technology 3D Automated Optical Inspection (AOI) Sales, Revenue, Price and Gross Margin (2019-2024)

13.16.4 JUTZE Intelligence Technology Main Business Overview

13.16.5 JUTZE Intelligence Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. 3D Automated Optical Inspection (AOI) Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. 3D Automated Optical Inspection (AOI) Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Inline 3D AOI

Table 4. Major Players of Offline 3D AOI

Table 5. Global 3D Automated Optical Inspection (AOI) Sales by Type (2019-2024) & (Units)

Table 6. Global 3D Automated Optical Inspection (AOI) Sales Market Share by Type (2019-2024)

Table 7. Global 3D Automated Optical Inspection (AOI) Revenue by Type (2019-2024) & (\$ million)

Table 8. Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Type (2019-2024)

Table 9. Global 3D Automated Optical Inspection (AOI) Sale Price by Type (2019-2024) & (K USD/Unit)

Table 10. Global 3D Automated Optical Inspection (AOI) Sales by Application (2019-2024) & (Units)

Table 11. Global 3D Automated Optical Inspection (AOI) Sales Market Share by Application (2019-2024)

Table 12. Global 3D Automated Optical Inspection (AOI) Revenue by Application (2019-2024)

Table 13. Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Application (2019-2024)

Table 14. Global 3D Automated Optical Inspection (AOI) Sale Price by Application (2019-2024) & (K USD/Unit)

Table 15. Global 3D Automated Optical Inspection (AOI) Sales by Company (2019-2024) & (Units)

Table 16. Global 3D Automated Optical Inspection (AOI) Sales Market Share by Company (2019-2024)

Table 17. Global 3D Automated Optical Inspection (AOI) Revenue by Company (2019-2024) (\$ Millions)

Table 18. Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Company (2019-2024)

Table 19. Global 3D Automated Optical Inspection (AOI) Sale Price by Company

(2019-2024) & (K USD/Unit)

Table 20. Key Manufacturers 3D Automated Optical Inspection (AOI) Producing Area Distribution and Sales Area

Table 21. Players 3D Automated Optical Inspection (AOI) Products Offered

Table 22. 3D Automated Optical Inspection (AOI) Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 23. New Products and Potential Entrants

Table 24. Mergers & Acquisitions, Expansion

Table 25. Global 3D Automated Optical Inspection (AOI) Sales by Geographic Region (2019-2024) & (Units)

Table 26. Global 3D Automated Optical Inspection (AOI) Sales Market Share Geographic Region (2019-2024)

Table 27. Global 3D Automated Optical Inspection (AOI) Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 28. Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Geographic Region (2019-2024)

Table 29. Global 3D Automated Optical Inspection (AOI) Sales by Country/Region (2019-2024) & (Units)

Table 30. Global 3D Automated Optical Inspection (AOI) Sales Market Share by Country/Region (2019-2024)

Table 31. Global 3D Automated Optical Inspection (AOI) Revenue by Country/Region (2019-2024) & (\$ millions)

Table 32. Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Country/Region (2019-2024)

Table 33. Americas 3D Automated Optical Inspection (AOI) Sales by Country (2019-2024) & (Units)

Table 34. Americas 3D Automated Optical Inspection (AOI) Sales Market Share by Country (2019-2024)

Table 35. Americas 3D Automated Optical Inspection (AOI) Revenue by Country (2019-2024) & (\$ Millions)

Table 36. Americas 3D Automated Optical Inspection (AOI) Revenue Market Share by Country (2019-2024)

Table 37. Americas 3D Automated Optical Inspection (AOI) Sales by Type (2019-2024) & (Units)

Table 38. Americas 3D Automated Optical Inspection (AOI) Sales by Application (2019-2024) & (Units)

Table 39. APAC 3D Automated Optical Inspection (AOI) Sales by Region (2019-2024) & (Units)

Table 40. APAC 3D Automated Optical Inspection (AOI) Sales Market Share by Region

(2019-2024)

Table 41. APAC 3D Automated Optical Inspection (AOI) Revenue by Region (2019-2024) & (\$ Millions)

Table 42. APAC 3D Automated Optical Inspection (AOI) Revenue Market Share by Region (2019-2024)

Table 43. APAC 3D Automated Optical Inspection (AOI) Sales by Type (2019-2024) & (Units)

Table 44. APAC 3D Automated Optical Inspection (AOI) Sales by Application (2019-2024) & (Units)

Table 45. Europe 3D Automated Optical Inspection (AOI) Sales by Country (2019-2024) & (Units)

Table 46. Europe 3D Automated Optical Inspection (AOI) Sales Market Share by Country (2019-2024)

Table 47. Europe 3D Automated Optical Inspection (AOI) Revenue by Country (2019-2024) & (\$ Millions)

Table 48. Europe 3D Automated Optical Inspection (AOI) Revenue Market Share by Country (2019-2024)

Table 49. Europe 3D Automated Optical Inspection (AOI) Sales by Type (2019-2024) & (Units)

Table 50. Europe 3D Automated Optical Inspection (AOI) Sales by Application (2019-2024) & (Units)

Table 51. Middle East & Africa 3D Automated Optical Inspection (AOI) Sales by Country (2019-2024) & (Units)

Table 52. Middle East & Africa 3D Automated Optical Inspection (AOI) Sales Market Share by Country (2019-2024)

Table 53. Middle East & Africa 3D Automated Optical Inspection (AOI) Revenue by Country (2019-2024) & (\$ Millions)

Table 54. Middle East & Africa 3D Automated Optical Inspection (AOI) Revenue Market Share by Country (2019-2024)

Table 55. Middle East & Africa 3D Automated Optical Inspection (AOI) Sales by Type (2019-2024) & (Units)

Table 56. Middle East & Africa 3D Automated Optical Inspection (AOI) Sales by Application (2019-2024) & (Units)

Table 57. Key Market Drivers & Growth Opportunities of 3D Automated Optical Inspection (AOI)

Table 58. Key Market Challenges & Risks of 3D Automated Optical Inspection (AOI)

Table 59. Key Industry Trends of 3D Automated Optical Inspection (AOI)

Table 60. 3D Automated Optical Inspection (AOI) Raw Material

Table 61. Key Suppliers of Raw Materials

- Table 62. 3D Automated Optical Inspection (AOI) Distributors List
- Table 63. 3D Automated Optical Inspection (AOI) Customer List
- Table 64. Global 3D Automated Optical Inspection (AOI) Sales Forecast by Region (2025-2030) & (Units)
- Table 65. Global 3D Automated Optical Inspection (AOI) Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 66. Americas 3D Automated Optical Inspection (AOI) Sales Forecast by Country (2025-2030) & (Units)
- Table 67. Americas 3D Automated Optical Inspection (AOI) Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 68. APAC 3D Automated Optical Inspection (AOI) Sales Forecast by Region (2025-2030) & (Units)
- Table 69. APAC 3D Automated Optical Inspection (AOI) Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 70. Europe 3D Automated Optical Inspection (AOI) Sales Forecast by Country (2025-2030) & (Units)
- Table 71. Europe 3D Automated Optical Inspection (AOI) Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 72. Middle East & Africa 3D Automated Optical Inspection (AOI) Sales Forecast by Country (2025-2030) & (Units)
- Table 73. Middle East & Africa 3D Automated Optical Inspection (AOI) Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 74. Global 3D Automated Optical Inspection (AOI) Sales Forecast by Type (2025-2030) & (Units)
- Table 75. Global 3D Automated Optical Inspection (AOI) Revenue Forecast by Type (2025-2030) & (\$ Millions)
- Table 76. Global 3D Automated Optical Inspection (AOI) Sales Forecast by Application (2025-2030) & (Units)
- Table 77. Global 3D Automated Optical Inspection (AOI) Revenue Forecast by Application (2025-2030) & (\$ Millions)
- Table 78. Koh Young Technology Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors
- Table 79. Koh Young Technology 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
- Table 80. Koh Young Technology 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)
- Table 81. Koh Young Technology Main Business
- Table 82. Koh Young Technology Latest Developments
- Table 83. Mirtec Basic Information, 3D Automated Optical Inspection (AOI)

Manufacturing Base, Sales Area and Its Competitors

Table 84. Mirtec 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 85. Mirtec 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 86. Mirtec Main Business

Table 87. Mirtec Latest Developments

Table 88. ViTrox Corporation Berhad Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors

Table 89. ViTrox Corporation Berhad 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 90. ViTrox Corporation Berhad 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 91. ViTrox Corporation Berhad Main Business

Table 92. ViTrox Corporation Berhad Latest Developments

Table 93. Saki Corporation Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors

Table 94. Saki Corporation 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 95. Saki Corporation 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 96. Saki Corporation Main Business

Table 97. Saki Corporation Latest Developments

Table 98. Cyberoptics Corporation Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors

Table 99. Cyberoptics Corporation 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 100. Cyberoptics Corporation 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 101. Cyberoptics Corporation Main Business

Table 102. Cyberoptics Corporation Latest Developments

Table 103. Omron Corporation Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors

Table 104. Omron Corporation 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 105. Omron Corporation 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 106. Omron Corporation Main Business

Table 107. Omron Corporation Latest Developments

Table 108. Viscom Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors

Table 109. Viscom 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 110. Viscom 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 111. Viscom Main Business

Table 112. Viscom Latest Developments

Table 113. Test Research Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors

Table 114. Test Research 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 115. Test Research 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 116. Test Research Main Business

Table 117. Test Research Latest Developments

Table 118. Parmi Corp Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors

Table 119. Parmi Corp 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 120. Parmi Corp 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 121. Parmi Corp Main Business

Table 122. Parmi Corp Latest Developments

Table 123. VI Technology (Mycronic) Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors

Table 124. VI Technology (Mycronic) 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 125. VI Technology (Mycronic) 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 126. VI Technology (Mycronic) Main Business

Table 127. VI Technology (Mycronic) Latest Developments

Table 128. G?PEL electronic GmbH Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors

Table 129. G?PEL electronic GmbH 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications

Table 130. G?PEL electronic GmbH 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 131. G?PEL electronic GmbH Main Business

- Table 132. G?PEL electronic GmbH Latest Developments
- Table 133. Machine Vision Products (MVP) Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors
- Table 134. Machine Vision Products (MVP) 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
- Table 135. Machine Vision Products (MVP) 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)
- Table 136. Machine Vision Products (MVP) Main Business
- Table 137. Machine Vision Products (MVP) Latest Developments
- Table 138. Mek Marantz Electronics Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors
- Table 139. Mek Marantz Electronics 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
- Table 140. Mek Marantz Electronics 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)
- Table 141. Mek Marantz Electronics Main Business
- Table 142. Mek Marantz Electronics Latest Developments
- Table 143. Pemtron Corp. Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors
- Table 144. Pemtron Corp. 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
- Table 145. Pemtron Corp. 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)
- Table 146. Pemtron Corp. Main Business
- Table 147. Pemtron Corp. Latest Developments
- Table 148. Nordson YESTECH Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors
- Table 149. Nordson YESTECH 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
- Table 150. Nordson YESTECH 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)
- Table 151. Nordson YESTECH Main Business
- Table 152. Nordson YESTECH Latest Developments
- Table 153. JUTZE Intelligence Technology Basic Information, 3D Automated Optical Inspection (AOI) Manufacturing Base, Sales Area and Its Competitors
- Table 154. JUTZE Intelligence Technology 3D Automated Optical Inspection (AOI) Product Portfolios and Specifications
- Table 155. JUTZE Intelligence Technology 3D Automated Optical Inspection (AOI) Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 156. JUTZE Intelligence Technology Main Business

Table 157. JUTZE Intelligence Technology Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of 3D Automated Optical Inspection (AOI)

Figure 2. 3D Automated Optical Inspection (AOI) Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global 3D Automated Optical Inspection (AOI) Sales Growth Rate 2019-2030 (Units)

Figure 7. Global 3D Automated Optical Inspection (AOI) Revenue Growth Rate 2019-2030 (\$ Millions)

Figure 8. 3D Automated Optical Inspection (AOI) Sales by Region (2019, 2023 & 2030) & (\$ Millions)

Figure 9. Product Picture of Inline 3D AOI

Figure 10. Product Picture of Offline 3D AOI

Figure 11. Global 3D Automated Optical Inspection (AOI) Sales Market Share by Type in 2023

Figure 12. Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Type (2019-2024)

Figure 13. 3D Automated Optical Inspection (AOI) Consumed in PCB Industry

Figure 14. Global 3D Automated Optical Inspection (AOI) Market: PCB Industry (2019-2024) & (Units)

Figure 15. 3D Automated Optical Inspection (AOI) Consumed in Panel Display Industry

Figure 16. Global 3D Automated Optical Inspection (AOI) Market: Panel Display Industry (2019-2024) & (Units)

Figure 17. 3D Automated Optical Inspection (AOI) Consumed in Other Industries (Semiconductors, Solar Cells, Medical, etc.)

Figure 18. Global 3D Automated Optical Inspection (AOI) Market: Other Industries (Semiconductors, Solar Cells, Medical, etc.) (2019-2024) & (Units)

Figure 19. Global 3D Automated Optical Inspection (AOI) Sales Market Share by Application (2023)

Figure 20. Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Application in 2023

Figure 21. 3D Automated Optical Inspection (AOI) Sales Market by Company in 2023 (Units)

Figure 22. Global 3D Automated Optical Inspection (AOI) Sales Market Share by Company in 2023

Figure 23. 3D Automated Optical Inspection (AOI) Revenue Market by Company in 2023 (\$ Million)

Figure 24. Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Company in 2023

Figure 25. Global 3D Automated Optical Inspection (AOI) Sales Market Share by Geographic Region (2019-2024)

Figure 26. Global 3D Automated Optical Inspection (AOI) Revenue Market Share by Geographic Region in 2023

Figure 27. Americas 3D Automated Optical Inspection (AOI) Sales 2019-2024 (Units)

Figure 28. Americas 3D Automated Optical Inspection (AOI) Revenue 2019-2024 (\$ Millions)

Figure 29. APAC 3D Automated Optical Inspection (AOI) Sales 2019-2024 (Units)

Figure 30. APAC 3D Automated Optical Inspection (AOI) Revenue 2019-2024 (\$ Millions)

Figure 31. Europe 3D Automated Optical Inspection (AOI) Sales 2019-2024 (Units)

Figure 32. Europe 3D Automated Optical Inspection (AOI) Revenue 2019-2024 (\$ Millions)

Figure 33. Middle East & Africa 3D Automated Optical Inspection (AOI) Sales 2019-2024 (Units)

Figure 34. Middle East & Africa 3D Automated Optical Inspection (AOI) Revenue 2019-2024 (\$ Millions)

Figure 35. Americas 3D Automated Optical Inspection (AOI) Sales Market Share by Country in 2023

Figure 36. Americas 3D Automated Optical Inspection (AOI) Revenue Market Share by Country in 2023

Figure 37. Americas 3D Automated Optical Inspection (AOI) Sales Market Share by Type (2019-2024)

Figure 38. Americas 3D Automated Optical Inspection (AOI) Sales Market Share by Application (2019-2024)

Figure 39. United States 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 40. Canada 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 41. Mexico 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 42. Brazil 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 43. APAC 3D Automated Optical Inspection (AOI) Sales Market Share by Region in 2023

Figure 44. APAC 3D Automated Optical Inspection (AOI) Revenue Market Share by Regions in 2023

Figure 45. APAC 3D Automated Optical Inspection (AOI) Sales Market Share by Type (2019-2024)

Figure 46. APAC 3D Automated Optical Inspection (AOI) Sales Market Share by Application (2019-2024)

Figure 47. China 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 48. Japan 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 49. South Korea 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 50. Southeast Asia 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 51. India 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 52. Australia 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 53. China Taiwan 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 54. Europe 3D Automated Optical Inspection (AOI) Sales Market Share by Country in 2023

Figure 55. Europe 3D Automated Optical Inspection (AOI) Revenue Market Share by Country in 2023

Figure 56. Europe 3D Automated Optical Inspection (AOI) Sales Market Share by Type (2019-2024)

Figure 57. Europe 3D Automated Optical Inspection (AOI) Sales Market Share by Application (2019-2024)

Figure 58. Germany 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 59. France 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 60. UK 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 61. Italy 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 62. Russia 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 63. Middle East & Africa 3D Automated Optical Inspection (AOI) Sales Market

Share by Country in 2023

Figure 64. Middle East & Africa 3D Automated Optical Inspection (AOI) Revenue Market Share by Country in 2023

Figure 65. Middle East & Africa 3D Automated Optical Inspection (AOI) Sales Market Share by Type (2019-2024)

Figure 66. Middle East & Africa 3D Automated Optical Inspection (AOI) Sales Market Share by Application (2019-2024)

Figure 67. Egypt 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 68. South Africa 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 69. Israel 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 70. Turkey 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 71. GCC Country 3D Automated Optical Inspection (AOI) Revenue Growth 2019-2024 (\$ Millions)

Figure 72. Manufacturing Cost Structure Analysis of 3D Automated Optical Inspection (AOI) in 2023

Figure 73. Manufacturing Process Analysis of 3D Automated Optical Inspection (AOI)

Figure 74. Industry Chain Structure of 3D Automated Optical Inspection (AOI)

Figure 75. Channels of Distribution

Figure 76. Global 3D Automated Optical Inspection (AOI) Sales Market Forecast by Region (2025-2030)

Figure 77. Global 3D Automated Optical Inspection (AOI) Revenue Market Share Forecast by Region (2025-2030)

Figure 78. Global 3D Automated Optical Inspection (AOI) Sales Market Share Forecast by Type (2025-2030)

Figure 79. Global 3D Automated Optical Inspection (AOI) Revenue Market Share Forecast by Type (2025-2030)

Figure 80. Global 3D Automated Optical Inspection (AOI) Sales Market Share Forecast by Application (2025-2030)

Figure 81. Global 3D Automated Optical Inspection (AOI) Revenue Market Share Forecast by Application (2025-2030)

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