

Global Automated Optical Inspection Market Size study, By Elements (Camera System, Lighting System, Computer System, Software), By Type (2D AOI System, 3D AOI System), By Technology (Inline AOI System, Offline AOI System), By Application (Fabrication Phase, Assembly Phase), By Industry (Consumer Electronics, Telecommunications, Automotive, Medical Devices, Aerospace & Defense, Industrial Electronics, Energy & Power), and Regional Forecasts 2022-2028

<https://marketpublishers.com/r/G61455734D99EN.html>

Date: May 2022

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G61455734D99EN

Abstracts

Global Automated Optical Inspection Market is valued approximately USD XX Million in 2021 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2022-2028.

Automated optical inspection (AOI) systems are used for an automated visual inspection of printed circuit boards (PCB). These systems check devices through a camera that autonomously scans the PCB under test for both quality defects and catastrophic failure. AOI is highly adopted in the manufacturing process owing to its non-contact test method and it also boosts the speed and precision of the device. The growing need for miniature, high-speed printed circuit boards (PCB), increasing adoption of electronics in the automotive sector, rising benefits of AOI over other inspection methods are the chief factors that are surging the market demand across the globe. For instance, according to Statista, in 2017, the automotive industry generates a revenue of USD 5,315 billion worldwide and the amount is likely to grow and reach USD

8,931 billion by 2030. Accordingly, the growth of the automotive sector is fueling the demand for automated optical inspection (AOI), thus, in turn, accelerating the market growth in the near future. However, the dearth of highly skilled personnel and unavailability of sophisticated software and hardware systems to handle a large amount of data impedes the growth of the market over the forecast period of 2022-2028. Also, increasing demand for AOI systems for inspection of IC substrates and the advent of self-monitoring analysis and reporting technology (SMART) technology is anticipated to act as a catalyzing factor for the market demand during the forecast period.

The key regions considered for the global Automated Optical Inspection Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. Asia-Pacific is the leading region across the world in terms of market share owing to the rise in high-volume manufacturing of PCBs and the growth of the automotive industry. Whereas, Asia-Pacific is also anticipated to exhibit the highest CAGR over the forecast period 2022-2028. Factors such as availability of low-priced skilled labor, low production cost, as well as, rising demand for electronic products, would create lucrative growth prospects for the Automated Optical Inspection market across the Asia-Pacific region.

Major market players included in this report are:

Koh Young Technology, Inc.

Test Research, Inc. (TRI)

Omron Corporation

Camtek Ltd.

Viscom AG

Saki Corporation

Nordson Corporation

KLA Corporation

Cyberoptics Corporation

Goepel Electronics Ltd.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Elements offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Elements:

Camera System
Lighting System
Computer System
Software

By Type:

2D AOI System
3D AOI System

By Technology:

Inline AOI System
Offline AOI System

By Application:

Fabrication Phase
Assembly Phase

By Industry:

Consumer Electronics
Telecommunications
Automotive
Medical Devices
Aerospace & Defense
Industrial Electronics
Energy & Power

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020
Base year – 2021
Forecast period – 2022 to 2028

Target Audience of the Global Automated Optical Inspection Market in Market Study:

Key Consulting Companies & Advisors
Large, medium-sized, and small enterprises
Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2028 (USD Million)
 - 1.2.1. Global Automated Optical Inspection Market, by Region, 2020-2028 (USD Million)
 - 1.2.2. Global Automated Optical Inspection Market, by Elements, 2020-2028 (USD Million)
 - 1.2.3. Global Automated Optical Inspection Market, by Type, 2020-2028 (USD Million)
 - 1.2.4. Global Automated Optical Inspection Market, by Technology, 2020-2028 (USD Million)
 - 1.2.5. Global Automated Optical Inspection Market, by Application, 2020-2028 (USD Million)
 - 1.2.6. Global Automated Optical Inspection Market, by Industry, 2020-2028 (USD Million)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL AUTOMATED OPTICAL INSPECTION MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Scope of the Study
 - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL AUTOMATED OPTICAL INSPECTION MARKET DYNAMICS

- 3.1. Automated Optical Inspection Market Impact Analysis (2020-2028)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Advantages of AOI over other inspection methods
 - 3.1.1.2. Growing demand for electronics in automotive sector
 - 3.1.2. Market Challenges
 - 3.1.2.1. Dearth of highly skilled personnel

3.1.2.2. Unavailability of sophisticated software and hardware systems to handle large amount of data

3.1.3. Market Opportunities

3.1.3.1. Increasing demand for AOI systems for inspection of IC substrates

3.1.3.2. Advent of SMART technology

CHAPTER 4. GLOBAL AUTOMATED OPTICAL INSPECTION MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.1.6. Futuristic Approach to Porter's 5 Force Model (2018-2028)

4.2. PEST Analysis

4.2.1. Political

4.2.2. Economical

4.2.3. Social

4.2.4. Technological

4.3. Investment Adoption Model

4.4. Analyst Recommendation & Conclusion

4.5. Top investment opportunity

4.6. Top winning strategies

CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT

5.1.1. Assessment of the overall impact of COVID-19 on the industry

5.1.2. Pre COVID-19 and post COVID-19 market scenario

CHAPTER 6. GLOBAL AUTOMATED OPTICAL INSPECTION MARKET, BY ELEMENTS

6.1. Market Snapshot

6.2. Global Automated Optical Inspection Market by Elements, Performance - Potential Analysis

6.3. Global Automated Optical Inspection Market Estimates & Forecasts by Elements 2018-2028 (USD Million)

6.4. Automated Optical Inspection Market, Sub Segment Analysis

- 6.4.1. Camera System
- 6.4.2. Lighting System
- 6.4.3. Computer System
- 6.4.4. Software

CHAPTER 7. GLOBAL AUTOMATED OPTICAL INSPECTION MARKET, BY TYPE

7.1. Market Snapshot

7.2. Global Automated Optical Inspection Market by Type, Performance - Potential Analysis

7.3. Global Automated Optical Inspection Market Estimates & Forecasts by Type 2018-2028 (USD Million)

7.4. Automated Optical Inspection Market, Sub Segment Analysis

- 7.4.1. 2D AOI System
- 7.4.2. 3D AOI System

CHAPTER 8. GLOBAL AUTOMATED OPTICAL INSPECTION MARKET, BY TECHNOLOGY

8.1. Market Snapshot

8.2. Global Automated Optical Inspection Market by Technology, Performance - Potential Analysis

8.3. Global Automated Optical Inspection Market Estimates & Forecasts by Technology 2018-2028 (USD Million)

8.4. Automated Optical Inspection Market, Sub Segment Analysis

- 8.4.1. Inline AOI System
- 8.4.2. Offline AOI System

CHAPTER 9. GLOBAL AUTOMATED OPTICAL INSPECTION MARKET, BY APPLICATION

9.1. Market Snapshot

9.2. Global Automated Optical Inspection Market by Application, Performance - Potential Analysis

9.3. Global Automated Optical Inspection Market Estimates & Forecasts by Application 2018-2028 (USD Million)

9.4. Automated Optical Inspection Market, Sub Segment Analysis

- 9.4.1. Fabrication Phase

9.4.2. Assembly Phase

CHAPTER 10. GLOBAL AUTOMATED OPTICAL INSPECTION MARKET, BY INDUSTRY

10.1. Market Snapshot

10.2. Global Automated Optical Inspection Market by Industry, Performance - Potential Analysis

10.3. Global Automated Optical Inspection Market Estimates & Forecasts by Industry 2018-2028 (USD Million)

10.4. Automated Optical Inspection Market, Sub Segment Analysis

10.4.1. Consumer Electronics

10.4.2. Telecommunications

10.4.3. Automotive

10.4.4. Medical Devices

10.4.5. Aerospace & Defense

10.4.6. Industrial Electronics

10.4.7. Energy & Power

CHAPTER 11. GLOBAL AUTOMATED OPTICAL INSPECTION MARKET, REGIONAL ANALYSIS

11.1. Automated Optical Inspection Market, Regional Market Snapshot

11.2. North America Automated Optical Inspection Market

11.2.1. U.S. Automated Optical Inspection Market

11.2.1.1. Elements estimates & forecasts, 2018-2028

11.2.1.2. Type estimates & forecasts, 2018-2028

11.2.1.3. Technology estimates & forecasts, 2018-2028

11.2.1.4. Application estimates & forecasts, 2018-2028

11.2.1.5. Industry estimates & forecasts, 2018-2028

11.2.2. Canada Automated Optical Inspection Market

11.3. Europe Automated Optical Inspection Market Snapshot

11.3.1. U.K. Automated Optical Inspection Market

11.3.2. Germany Automated Optical Inspection Market

11.3.3. France Automated Optical Inspection Market

11.3.4. Spain Automated Optical Inspection Market

11.3.5. Italy Automated Optical Inspection Market

11.3.6. Rest of Europe Automated Optical Inspection Market

11.4. Asia-Pacific Automated Optical Inspection Market Snapshot

- 11.4.1. China Automated Optical Inspection Market
- 11.4.2. India Automated Optical Inspection Market
- 11.4.3. Japan Automated Optical Inspection Market
- 11.4.4. Australia Automated Optical Inspection Market
- 11.4.5. South Korea Automated Optical Inspection Market
- 11.4.6. Rest of Asia Pacific Automated Optical Inspection Market
- 11.5. Latin America Automated Optical Inspection Market Snapshot
 - 11.5.1. Brazil Automated Optical Inspection Market
 - 11.5.2. Mexico Automated Optical Inspection Market
- 11.6. Rest of The World Automated Optical Inspection Market

CHAPTER 12. COMPETITIVE INTELLIGENCE

- 12.1. Top Market Strategies
- 12.2. Company Profiles
 - 12.2.1. Koh Young Technology, Inc.
 - 12.2.1.1. Key Information
 - 12.2.1.2. Overview
 - 12.2.1.3. Financial (Subject to Data Availability)
 - 12.2.1.4. Elements Summary
 - 12.2.1.5. Recent Developments
 - 12.2.2. Test Research, Inc. (TRI)
 - 12.2.3. Omron Corporation
 - 12.2.4. Camtek Ltd.
 - 12.2.5. Viscom AG
 - 12.2.6. Saki Corporation
 - 12.2.7. Nordson Corporation
 - 12.2.8. KLA Corporation
 - 12.2.9. Cyberoptics Corporation
 - 12.2.10. Goepel Electronics Ltd.

CHAPTER 13. RESEARCH PROCESS

- 13.1. Research Process
 - 13.1.1. Data Mining
 - 13.1.2. Analysis
 - 13.1.3. Market Estimation
 - 13.1.4. Validation
 - 13.1.5. Publishing

13.2. Research Attributes

13.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Automated Optical Inspection market, report scope

TABLE 2. Global Automated Optical Inspection market estimates & forecasts by Region 2018-2028 (USD Million)

TABLE 3. Global Automated Optical Inspection market estimates & forecasts by Elements 2018-2028 (USD Million)

TABLE 4. Global Automated Optical Inspection market estimates & forecasts by Type 2018-2028 (USD Million)

TABLE 5. Global Automated Optical Inspection market estimates & forecasts by Technology 2018-2028 (USD Million)

TABLE 6. Global Automated Optical Inspection market estimates & forecasts by Application 2018-2028 (USD Million)

TABLE 7. Global Automated Optical Inspection market estimates & forecasts by Industry 2018-2028 (USD Million)

TABLE 8. Global Automated Optical Inspection market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 9. Global Automated Optical Inspection market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 10. Global Automated Optical Inspection market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 11. Global Automated Optical Inspection market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 12. Global Automated Optical Inspection market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 13. Global Automated Optical Inspection market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 14. Global Automated Optical Inspection market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 15. Global Automated Optical Inspection market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 16. Global Automated Optical Inspection market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 17. Global Automated Optical Inspection market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 18. U.S. Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 19. U.S. Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 20. U.S. Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 21. Canada Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 22. Canada Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 23. Canada Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 24. UK Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 25. UK Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 26. UK Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 27. Germany Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 28. Germany Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 29. Germany Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 30. RoE Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 31. RoE Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 32. RoE Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 33. China Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 34. China Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 35. China Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 36. India Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 37. India Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 38. India Automated Optical Inspection market estimates & forecasts by

segment 2018-2028 (USD Million)

TABLE 39. Japan Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 40. Japan Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 41. Japan Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 42. RoAPAC Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 43. RoAPAC Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 44. RoAPAC Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 45. Brazil Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 46. Brazil Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 47. Brazil Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 48. Mexico Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 49. Mexico Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 50. Mexico Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 51. RoLA Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 52. RoLA Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 53. RoLA Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 54. Row Automated Optical Inspection market estimates & forecasts, 2018-2028 (USD Million)

TABLE 55. Row Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 56. Row Automated Optical Inspection market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 57. List of secondary sources, used in the study of global Automated Optical Inspection market

TABLE 58. List of primary sources, used in the study of global Automated Optical Inspection market

TABLE 59. Years considered for the study

TABLE 60. Exchange rates considered

List Of Figures

LIST OF FIGURES

- FIG 1. Global Automated Optical Inspection market, research methodology
- FIG 2. Global Automated Optical Inspection market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Automated Optical Inspection market, key trends 2021
- FIG 5. Global Automated Optical Inspection market, growth prospects 2022-2028
- FIG 6. Global Automated Optical Inspection market, porters 5 force model
- FIG 7. Global Automated Optical Inspection market, pest analysis
- FIG 8. Global Automated Optical Inspection market, value chain analysis
- FIG 9. Global Automated Optical Inspection market by segment, 2019 & 2028 (USD Million)
- FIG 10. Global Automated Optical Inspection market by segment, 2019 & 2028 (USD Million)
- FIG 11. Global Automated Optical Inspection market by segment, 2019 & 2028 (USD Million)
- FIG 12. Global Automated Optical Inspection market by segment, 2019 & 2028 (USD Million)
- FIG 13. Global Automated Optical Inspection market by segment, 2019 & 2028 (USD Million)
- FIG 14. Global Automated Optical Inspection market, regional snapshot 2019 & 2028
- FIG 15. North America Automated Optical Inspection market 2019 & 2028 (USD Million)
- FIG 16. Europe Automated Optical Inspection market 2019 & 2028 (USD Million)
- FIG 17. Asia pacific market 2019 & 2028 (USD Million)
- FIG 18. Latin America Automated Optical Inspection market 2019 & 2028 (USD Million)
- FIG 19. Global Automated Optical Inspection market, company market share analysis (2021)

I would like to order

Product name: Global Automated Optical Inspection Market Size study, By Elements (Camera System, Lighting System, Computer System, Software), By Type (2D AOI System, 3D AOI System), By Technology (Inline AOI System, Offline AOI System), By Application (Fabrication Phase, Assembly Phase), By Industry (Consumer Electronics, Telecommunications, Automotive, Medical Devices, Aerospace & Defense, Industrial Electronics, Energy & Power), and Regional Forecasts 2022-2028

Product link: <https://marketpublishers.com/r/G61455734D99EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G61455734D99EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

& Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970