

Global Substrate 3D AOI Equipment Market Growth 2026-2032

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Abstracts

The global Substrate 3D AOI Equipment market size is predicted to grow from US\$ 261 million in 2025 to US\$ 398 million in 2032; it is expected to grow at a CAGR of 6.3% from 2026 to 2032.

Automated optical inspection (AOI) refers to a detection method that obtains the image of the object to be tested through optical imaging, processes and analyzes it through a specific algorithm, and compares it with the standard template image to obtain the defects of the object to be tested. By replacing appearance inspections such as manual scratches with the AOI system, the speed and quality of product output can be improved, thereby reducing the output of scrapped products and reducing labor costs. 3D AOI combines algorithm technology and optical imaging technology to perform all-round and high-precision automatic inspection technology for objects in three dimensions. 3D AOI plays an important role in the field of advanced packaging.

AOI systems are divided into 2D and 3D. The core difference lies in accuracy, algorithm and detection effect. 2D AOI is a plane detection; while 3D AOI is the latest three-dimensional detection technology, which can detect items such as substrate bump height and substrate warpage. The core companies of global substrate 3D AOI equipment are mainly Camtek, TAKAOKA TOKO, CIMS, Ideal Vision and Saki Corporation, etc. The market is relatively concentrated, and the top 5 companies have a share of more than 65%.

LP Information, Inc. (LPI) ' newest research report, the "Substrate 3D AOI Equipment Industry Forecast" looks at past sales and reviews total world Substrate 3D AOI Equipment sales in 2025, providing a comprehensive analysis by region and market sector of projected Substrate 3D AOI Equipment sales for 2026 through 2032. With

Substrate 3D AOI Equipment sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Substrate 3D AOI Equipment industry.

This Insight Report provides a comprehensive analysis of the global Substrate 3D AOI Equipment landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Substrate 3D AOI Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Substrate 3D AOI Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Substrate 3D AOI Equipment and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Substrate 3D AOI Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of Substrate 3D AOI Equipment market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

2D+3D

3D

Segmentation by Application:

FC Substrate

BGA Substrate

CSP Substrate

Others

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 analysing the company's coverage, product portfolio, its market penetration.

Camtek

TAKAOKA TOKO

Koh Young Technology

CIMS

Ideal Vision Integration Sdn Bhd

JUTZE Intelligence Technology

TT Vision Holdings Berhad

INSPEC INC

Nanotronics

Machvision Inc

Saki Corporation

Favite

Key Questions Addressed in this Report

What is the 10-year outlook for the global Substrate 3D AOI Equipment market?

What factors are driving Substrate 3D AOI Equipment market growth, globally and by region?

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

How do Substrate 3D AOI Equipment market opportunities vary by end market size?

How does Substrate 3D AOI Equipment break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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 Substrate 3D AOI Equipment Annual Sales 2021-2032

- 2.1.2 World Current & Future Analysis for Substrate 3D AOI Equipment by Geographic Region, 2021, 2025 & 2032

- 2.1.3 World Current & Future Analysis for Substrate 3D AOI Equipment by Country/Region, 2021, 2025 & 2032

2.2 Substrate 3D AOI Equipment Segment by Type

- 2.2.1 2D+3D

- 2.2.2 3D

- 2.2.3 Substrate 3D AOI Equipment Sales by Type

- 2.2.3.1 Global Substrate 3D AOI Equipment Sales Market Share by Type (2021-2026)

- 2.2.3.2 Global Substrate 3D AOI Equipment Revenue and Market Share by Type (2021-2026)

- 2.2.3.3 Global Substrate 3D AOI Equipment Sale Price by Type (2021-2026)

2.3 Substrate 3D AOI Equipment Segment by Application

- 2.3.1 FC Substrate

- 2.3.2 BGA Substrate

- 2.3.3 CSP Substrate

- 2.3.4 Others

- 2.3.5 Substrate 3D AOI Equipment Sales by Application

- 2.3.5.1 Global Substrate 3D AOI Equipment Sale Market Share by Application (2021-2026)

- 2.3.5.2 Global Substrate 3D AOI Equipment Revenue and Market Share by

Application (2021-2026)

2.3.5.3 Global Substrate 3D AOI Equipment Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Substrate 3D AOI Equipment Breakdown Data by Company

3.1.1 Global Substrate 3D AOI Equipment Annual Sales by Company (2021-2026)

3.1.2 Global Substrate 3D AOI Equipment Sales Market Share by Company
(2021-2026)

3.2 Global Substrate 3D AOI Equipment Annual Revenue by Company (2021-2026)

3.2.1 Global Substrate 3D AOI Equipment Revenue by Company (2021-2026)

3.2.2 Global Substrate 3D AOI Equipment Revenue Market Share by Company
(2021-2026)

3.3 Global Substrate 3D AOI Equipment Sale Price by Company

3.4 Key Manufacturers Substrate 3D AOI Equipment Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Substrate 3D AOI Equipment Product Location Distribution

3.4.2 Players Substrate 3D AOI Equipment Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SUBSTRATE 3D AOI EQUIPMENT BY GEOGRAPHIC REGION

4.1 World Historic Substrate 3D AOI Equipment Market Size by Geographic Region
(2021-2026)

4.1.1 Global Substrate 3D AOI Equipment Annual Sales by Geographic Region
(2021-2026)

4.1.2 Global Substrate 3D AOI Equipment Annual Revenue by Geographic Region
(2021-2026)

4.2 World Historic Substrate 3D AOI Equipment Market Size by Country/Region
(2021-2026)

4.2.1 Global Substrate 3D AOI Equipment Annual Sales by Country/Region
(2021-2026)

4.2.2 Global Substrate 3D AOI Equipment Annual Revenue by Country/Region
(2021-2026)

- 4.3 Americas Substrate 3D AOI Equipment Sales Growth
- 4.4 APAC Substrate 3D AOI Equipment Sales Growth
- 4.5 Europe Substrate 3D AOI Equipment Sales Growth
- 4.6 Middle East & Africa Substrate 3D AOI Equipment Sales Growth

5 AMERICAS

- 5.1 Americas Substrate 3D AOI Equipment Sales by Country
 - 5.1.1 Americas Substrate 3D AOI Equipment Sales by Country (2021-2026)
 - 5.1.2 Americas Substrate 3D AOI Equipment Revenue by Country (2021-2026)
- 5.2 Americas Substrate 3D AOI Equipment Sales by Type (2021-2026)
- 5.3 Americas Substrate 3D AOI Equipment Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Substrate 3D AOI Equipment Sales by Region
 - 6.1.1 APAC Substrate 3D AOI Equipment Sales by Region (2021-2026)
 - 6.1.2 APAC Substrate 3D AOI Equipment Revenue by Region (2021-2026)
- 6.2 APAC Substrate 3D AOI Equipment Sales by Type (2021-2026)
- 6.3 APAC Substrate 3D AOI Equipment Sales by Application (2021-2026)
- 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 Substrate 3D AOI Equipment by Country
 - 7.1.1 Europe Substrate 3D AOI Equipment Sales by Country (2021-2026)
 - 7.1.2 Europe Substrate 3D AOI Equipment Revenue by Country (2021-2026)
- 7.2 Europe Substrate 3D AOI Equipment Sales by Type (2021-2026)
- 7.3 Europe Substrate 3D AOI Equipment Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Substrate 3D AOI Equipment by Country

8.1.1 Middle East & Africa Substrate 3D AOI Equipment Sales by Country (2021-2026)

8.1.2 Middle East & Africa Substrate 3D AOI Equipment Revenue by Country
(2021-2026)

8.2 Middle East & Africa Substrate 3D AOI Equipment Sales by Type (2021-2026)

8.3 Middle East & Africa Substrate 3D AOI Equipment Sales by Application (2021-2026)

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 Substrate 3D AOI Equipment

10.3 Manufacturing Process Analysis of Substrate 3D AOI Equipment

10.4 Industry Chain Structure of Substrate 3D AOI Equipment

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Substrate 3D AOI Equipment Distributors

11.3 Substrate 3D AOI Equipment Customer

12 WORLD FORECAST REVIEW FOR SUBSTRATE 3D AOI EQUIPMENT BY GEOGRAPHIC REGION

12.1 Global Substrate 3D AOI Equipment Market Size Forecast by Region

12.1.1 Global Substrate 3D AOI Equipment Forecast by Region (2027-2032)

12.1.2 Global Substrate 3D AOI Equipment Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Substrate 3D AOI Equipment Forecast by Type (2027-2032)

12.7 Global Substrate 3D AOI Equipment Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Camtek

13.1.1 Camtek Company Information

13.1.2 Camtek Substrate 3D AOI Equipment Product Portfolios and Specifications

13.1.3 Camtek Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Camtek Main Business Overview

13.1.5 Camtek Latest Developments

13.2 TAKAOKA TOKO

13.2.1 TAKAOKA TOKO Company Information

13.2.2 TAKAOKA TOKO Substrate 3D AOI Equipment Product Portfolios and Specifications

13.2.3 TAKAOKA TOKO Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 TAKAOKA TOKO Main Business Overview

13.2.5 TAKAOKA TOKO Latest Developments

13.3 Koh Young Technology

13.3.1 Koh Young Technology Company Information

13.3.2 Koh Young Technology Substrate 3D AOI Equipment Product Portfolios and Specifications

13.3.3 Koh Young Technology Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.3.4 Koh Young Technology Main Business Overview
- 13.3.5 Koh Young Technology Latest Developments
- 13.4 CIMS
 - 13.4.1 CIMS Company Information
 - 13.4.2 CIMS Substrate 3D AOI Equipment Product Portfolios and Specifications
 - 13.4.3 CIMS Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 CIMS Main Business Overview
 - 13.4.5 CIMS Latest Developments
- 13.5 Ideal Vision Integration Sdn Bhd
 - 13.5.1 Ideal Vision Integration Sdn Bhd Company Information
 - 13.5.2 Ideal Vision Integration Sdn Bhd Substrate 3D AOI Equipment Product Portfolios and Specifications
 - 13.5.3 Ideal Vision Integration Sdn Bhd Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Ideal Vision Integration Sdn Bhd Main Business Overview
 - 13.5.5 Ideal Vision Integration Sdn Bhd Latest Developments
- 13.6 JUTZE Intelligence Technology
 - 13.6.1 JUTZE Intelligence Technology Company Information
 - 13.6.2 JUTZE Intelligence Technology Substrate 3D AOI Equipment Product Portfolios and Specifications
 - 13.6.3 JUTZE Intelligence Technology Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 JUTZE Intelligence Technology Main Business Overview
 - 13.6.5 JUTZE Intelligence Technology Latest Developments
- 13.7 TT Vision Holdings Berhad
 - 13.7.1 TT Vision Holdings Berhad Company Information
 - 13.7.2 TT Vision Holdings Berhad Substrate 3D AOI Equipment Product Portfolios and Specifications
 - 13.7.3 TT Vision Holdings Berhad Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 TT Vision Holdings Berhad Main Business Overview
 - 13.7.5 TT Vision Holdings Berhad Latest Developments
- 13.8 INSPEC INC
 - 13.8.1 INSPEC INC Company Information
 - 13.8.2 INSPEC INC Substrate 3D AOI Equipment Product Portfolios and Specifications
 - 13.8.3 INSPEC INC Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 INSPEC INC Main Business Overview

13.8.5 INSPEC INC Latest Developments

13.9 Nanotronics

13.9.1 Nanotronics Company Information

13.9.2 Nanotronics Substrate 3D AOI Equipment Product Portfolios and Specifications

13.9.3 Nanotronics Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Nanotronics Main Business Overview

13.9.5 Nanotronics Latest Developments

13.10 Machvision Inc

13.10.1 Machvision Inc Company Information

13.10.2 Machvision Inc Substrate 3D AOI Equipment Product Portfolios and Specifications

13.10.3 Machvision Inc Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Machvision Inc Main Business Overview

13.10.5 Machvision Inc Latest Developments

13.11 Saki Corporation

13.11.1 Saki Corporation Company Information

13.11.2 Saki Corporation Substrate 3D AOI Equipment Product Portfolios and Specifications

13.11.3 Saki Corporation Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Saki Corporation Main Business Overview

13.11.5 Saki Corporation Latest Developments

13.12 Favite

13.12.1 Favite Company Information

13.12.2 Favite Substrate 3D AOI Equipment Product Portfolios and Specifications

13.12.3 Favite Substrate 3D AOI Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Favite Main Business Overview

13.12.5 Favite Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Substrate 3D AOI Equipment Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Substrate 3D AOI Equipment Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 2D+3D

Table 4. Major Players of 3D

Table 5. Global Substrate 3D AOI Equipment Sales by Type (2021-2026) & (Units)

Table 6. Global Substrate 3D AOI Equipment Sales Market Share by Type (2021-2026)

Table 7. Global Substrate 3D AOI Equipment Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Substrate 3D AOI Equipment Revenue Market Share by Type (2021-2026)

Table 9. Global Substrate 3D AOI Equipment Sale Price by Type (2021-2026) & (K US\$/Unit)

Table 10. Global Substrate 3D AOI Equipment Sale by Application (2021-2026) & (Units)

Table 11. Global Substrate 3D AOI Equipment Sale Market Share by Application (2021-2026)

Table 12. Global Substrate 3D AOI Equipment Revenue by Application (2021-2026) & (\$ million)

Table 13. Global Substrate 3D AOI Equipment Revenue Market Share by Application (2021-2026)

Table 14. Global Substrate 3D AOI Equipment Sale Price by Application (2021-2026) & (K US\$/Unit)

Table 15. Global Substrate 3D AOI Equipment Sales by Company (2021-2026) & (Units)

Table 16. Global Substrate 3D AOI Equipment Sales Market Share by Company (2021-2026)

Table 17. Global Substrate 3D AOI Equipment Revenue by Company (2021-2026) & (\$ millions)

Table 18. Global Substrate 3D AOI Equipment Revenue Market Share by Company (2021-2026)

Table 19. Global Substrate 3D AOI Equipment Sale Price by Company (2021-2026) & (K US\$/Unit)

Table 20. Key Manufacturers Substrate 3D AOI Equipment Producing Area Distribution

and Sales Area

Table 21. Players Substrate 3D AOI Equipment Products Offered

Table 22. Substrate 3D AOI Equipment Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Substrate 3D AOI Equipment Sales by Geographic Region (2021-2026) & (Units)

Table 26. Global Substrate 3D AOI Equipment Sales Market Share Geographic Region (2021-2026)

Table 27. Global Substrate 3D AOI Equipment Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 28. Global Substrate 3D AOI Equipment Revenue Market Share by Geographic Region (2021-2026)

Table 29. Global Substrate 3D AOI Equipment Sales by Country/Region (2021-2026) & (Units)

Table 30. Global Substrate 3D AOI Equipment Sales Market Share by Country/Region (2021-2026)

Table 31. Global Substrate 3D AOI Equipment Revenue by Country/Region (2021-2026) & (\$ millions)

Table 32. Global Substrate 3D AOI Equipment Revenue Market Share by Country/Region (2021-2026)

Table 33. Americas Substrate 3D AOI Equipment Sales by Country (2021-2026) & (Units)

Table 34. Americas Substrate 3D AOI Equipment Sales Market Share by Country (2021-2026)

Table 35. Americas Substrate 3D AOI Equipment Revenue by Country (2021-2026) & (\$ millions)

Table 36. Americas Substrate 3D AOI Equipment Sales by Type (2021-2026) & (Units)

Table 37. Americas Substrate 3D AOI Equipment Sales by Application (2021-2026) & (Units)

Table 38. APAC Substrate 3D AOI Equipment Sales by Region (2021-2026) & (Units)

Table 39. APAC Substrate 3D AOI Equipment Sales Market Share by Region (2021-2026)

Table 40. APAC Substrate 3D AOI Equipment Revenue by Region (2021-2026) & (\$ millions)

Table 41. APAC Substrate 3D AOI Equipment Sales by Type (2021-2026) & (Units)

Table 42. APAC Substrate 3D AOI Equipment Sales by Application (2021-2026) & (Units)

- Table 43. Europe Substrate 3D AOI Equipment Sales by Country (2021-2026) & (Units)
- Table 44. Europe Substrate 3D AOI Equipment Revenue by Country (2021-2026) & (\$ millions)
- Table 45. Europe Substrate 3D AOI Equipment Sales by Type (2021-2026) & (Units)
- Table 46. Europe Substrate 3D AOI Equipment Sales by Application (2021-2026) & (Units)
- Table 47. Middle East & Africa Substrate 3D AOI Equipment Sales by Country (2021-2026) & (Units)
- Table 48. Middle East & Africa Substrate 3D AOI Equipment Revenue Market Share by Country (2021-2026)
- Table 49. Middle East & Africa Substrate 3D AOI Equipment Sales by Type (2021-2026) & (Units)
- Table 50. Middle East & Africa Substrate 3D AOI Equipment Sales by Application (2021-2026) & (Units)
- Table 51. Key Market Drivers & Growth Opportunities of Substrate 3D AOI Equipment
- Table 52. Key Market Challenges & Risks of Substrate 3D AOI Equipment
- Table 53. Key Industry Trends of Substrate 3D AOI Equipment
- Table 54. Substrate 3D AOI Equipment Raw Material
- Table 55. Key Suppliers of Raw Materials
- Table 56. Substrate 3D AOI Equipment Distributors List
- Table 57. Substrate 3D AOI Equipment Customer List
- Table 58. Global Substrate 3D AOI Equipment Sales Forecast by Region (2027-2032) & (Units)
- Table 59. Global Substrate 3D AOI Equipment Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 60. Americas Substrate 3D AOI Equipment Sales Forecast by Country (2027-2032) & (Units)
- Table 61. Americas Substrate 3D AOI Equipment Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 62. APAC Substrate 3D AOI Equipment Sales Forecast by Region (2027-2032) & (Units)
- Table 63. APAC Substrate 3D AOI Equipment Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 64. Europe Substrate 3D AOI Equipment Sales Forecast by Country (2027-2032) & (Units)
- Table 65. Europe Substrate 3D AOI Equipment Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 66. Middle East & Africa Substrate 3D AOI Equipment Sales Forecast by Country (2027-2032) & (Units)

Table 67. Middle East & Africa Substrate 3D AOI Equipment Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 68. Global Substrate 3D AOI Equipment Sales Forecast by Type (2027-2032) & (Units)

Table 69. Global Substrate 3D AOI Equipment Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 70. Global Substrate 3D AOI Equipment Sales Forecast by Application (2027-2032) & (Units)

Table 71. Global Substrate 3D AOI Equipment Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 72. Camtek Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 73. Camtek Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 74. Camtek Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 75. Camtek Main Business

Table 76. Camtek Latest Developments

Table 77. TAKAOKA TOKO Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 78. TAKAOKA TOKO Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 79. TAKAOKA TOKO Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 80. TAKAOKA TOKO Main Business

Table 81. TAKAOKA TOKO Latest Developments

Table 82. Koh Young Technology Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 83. Koh Young Technology Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 84. Koh Young Technology Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 85. Koh Young Technology Main Business

Table 86. Koh Young Technology Latest Developments

Table 87. CIMS Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 88. CIMS Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 89. CIMS Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 90. CIMS Main Business

Table 91. CIMS Latest Developments

Table 92. Ideal Vision Integration Sdn Bhd Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 93. Ideal Vision Integration Sdn Bhd Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 94. Ideal Vision Integration Sdn Bhd Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 95. Ideal Vision Integration Sdn Bhd Main Business

Table 96. Ideal Vision Integration Sdn Bhd Latest Developments

Table 97. JUTZE Intelligence Technology Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 98. JUTZE Intelligence Technology Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 99. JUTZE Intelligence Technology Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 100. JUTZE Intelligence Technology Main Business

Table 101. JUTZE Intelligence Technology Latest Developments

Table 102. TT Vision Holdings Berhad Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 103. TT Vision Holdings Berhad Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 104. TT Vision Holdings Berhad Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 105. TT Vision Holdings Berhad Main Business

Table 106. TT Vision Holdings Berhad Latest Developments

Table 107. INSPEC INC Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 108. INSPEC INC Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 109. INSPEC INC Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 110. INSPEC INC Main Business

Table 111. INSPEC INC Latest Developments

Table 112. Nanotronics Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 113. Nanotronics Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 114. Nanotronics Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 115. Nanotronics Main Business

Table 116. Nanotronics Latest Developments

Table 117. Machvision Inc Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 118. Machvision Inc Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 119. Machvision Inc Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 120. Machvision Inc Main Business

Table 121. Machvision Inc Latest Developments

Table 122. Saki Corporation Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 123. Saki Corporation Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 124. Saki Corporation Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 125. Saki Corporation Main Business

Table 126. Saki Corporation Latest Developments

Table 127. Favite Basic Information, Substrate 3D AOI Equipment Manufacturing Base, Sales Area and Its Competitors

Table 128. Favite Substrate 3D AOI Equipment Product Portfolios and Specifications

Table 129. Favite Substrate 3D AOI Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 130. Favite Main Business

Table 131. Favite Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Substrate 3D AOI Equipment
- Figure 2. Substrate 3D AOI Equipment Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Substrate 3D AOI Equipment Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Substrate 3D AOI Equipment Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Substrate 3D AOI Equipment Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Substrate 3D AOI Equipment Sales Market Share by Country/Region (2025)
- Figure 10. Substrate 3D AOI Equipment Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 2D+3D
- Figure 12. Product Picture of 3D
- Figure 13. Global Substrate 3D AOI Equipment Sales Market Share by Type in 2026
- Figure 14. Global Substrate 3D AOI Equipment Revenue Market Share by Type (2021-2026)
- Figure 15. Substrate 3D AOI Equipment Consumed in FC Substrate
- Figure 16. Global Substrate 3D AOI Equipment Market: FC Substrate (2021-2026) & (Units)
- Figure 17. Substrate 3D AOI Equipment Consumed in BGA Substrate
- Figure 18. Global Substrate 3D AOI Equipment Market: BGA Substrate (2021-2026) & (Units)
- Figure 19. Substrate 3D AOI Equipment Consumed in CSP Substrate
- Figure 20. Global Substrate 3D AOI Equipment Market: CSP Substrate (2021-2026) & (Units)
- Figure 21. Substrate 3D AOI Equipment Consumed in Others
- Figure 22. Global Substrate 3D AOI Equipment Market: Others (2021-2026) & (Units)
- Figure 23. Global Substrate 3D AOI Equipment Sale Market Share by Application (2025)
- Figure 24. Global Substrate 3D AOI Equipment Revenue Market Share by Application in 2026
- Figure 25. Substrate 3D AOI Equipment Sales by Company in 2026 (Units)
- Figure 26. Global Substrate 3D AOI Equipment Sales Market Share by Company in

2026

Figure 27. Substrate 3D AOI Equipment Revenue by Company in 2026 (\$ millions)

Figure 28. Global Substrate 3D AOI Equipment Revenue Market Share by Company in 2026

Figure 29. Global Substrate 3D AOI Equipment Sales Market Share by Geographic Region (2021-2026)

Figure 30. Global Substrate 3D AOI Equipment Revenue Market Share by Geographic Region in 2026

Figure 31. Americas Substrate 3D AOI Equipment Sales 2021-2026 (Units)

Figure 32. Americas Substrate 3D AOI Equipment Revenue 2021-2026 (\$ millions)

Figure 33. APAC Substrate 3D AOI Equipment Sales 2021-2026 (Units)

Figure 34. APAC Substrate 3D AOI Equipment Revenue 2021-2026 (\$ millions)

Figure 35. Europe Substrate 3D AOI Equipment Sales 2021-2026 (Units)

Figure 36. Europe Substrate 3D AOI Equipment Revenue 2021-2026 (\$ millions)

Figure 37. Middle East & Africa Substrate 3D AOI Equipment Sales 2021-2026 (Units)

Figure 38. Middle East & Africa Substrate 3D AOI Equipment Revenue 2021-2026 (\$ millions)

Figure 39. Americas Substrate 3D AOI Equipment Sales Market Share by Country in 2026

Figure 40. Americas Substrate 3D AOI Equipment Revenue Market Share by Country (2021-2026)

Figure 41. Americas Substrate 3D AOI Equipment Sales Market Share by Type (2021-2026)

Figure 42. Americas Substrate 3D AOI Equipment Sales Market Share by Application (2021-2026)

Figure 43. United States Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 44. Canada Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 45. Mexico Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 46. Brazil Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 47. APAC Substrate 3D AOI Equipment Sales Market Share by Region in 2026

Figure 48. APAC Substrate 3D AOI Equipment Revenue Market Share by Region (2021-2026)

Figure 49. APAC Substrate 3D AOI Equipment Sales Market Share by Type (2021-2026)

Figure 50. APAC Substrate 3D AOI Equipment Sales Market Share by Application (2021-2026)

- Figure 51. China Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 52. Japan Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 53. South Korea Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Southeast Asia Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 55. India Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Australia Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 57. China Taiwan Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 58. Europe Substrate 3D AOI Equipment Sales Market Share by Country in 2026
- Figure 59. Europe Substrate 3D AOI Equipment Revenue Market Share by Country (2021-2026)
- Figure 60. Europe Substrate 3D AOI Equipment Sales Market Share by Type (2021-2026)
- Figure 61. Europe Substrate 3D AOI Equipment Sales Market Share by Application (2021-2026)
- Figure 62. Germany Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 63. France Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 64. UK Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Italy Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Russia Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Middle East & Africa Substrate 3D AOI Equipment Sales Market Share by Country (2021-2026)
- Figure 68. Middle East & Africa Substrate 3D AOI Equipment Sales Market Share by Type (2021-2026)
- Figure 69. Middle East & Africa Substrate 3D AOI Equipment Sales Market Share by Application (2021-2026)
- Figure 70. Egypt Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 71. South Africa Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Israel Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Turkey Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 74. GCC Countries Substrate 3D AOI Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Manufacturing Cost Structure Analysis of Substrate 3D AOI Equipment in

2026

Figure 76. Manufacturing Process Analysis of Substrate 3D AOI Equipment

Figure 77. Industry Chain Structure of Substrate 3D AOI Equipment

Figure 78. Channels of Distribution

Figure 79. Global Substrate 3D AOI Equipment Sales Market Forecast by Region (2027-2032)

Figure 80. Global Substrate 3D AOI Equipment Revenue Market Share Forecast by Region (2027-2032)

Figure 81. Global Substrate 3D AOI Equipment Sales Market Share Forecast by Type (2027-2032)

Figure 82. Global Substrate 3D AOI Equipment Revenue Market Share Forecast by Type (2027-2032)

Figure 83. Global Substrate 3D AOI Equipment Sales Market Share Forecast by Application (2027-2032)

Figure 84. Global Substrate 3D AOI Equipment Revenue Market Share Forecast by Application (2027-2032)

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