

Global 2D/3D Profile Sensor Market Growth 2026-2032

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Abstracts

The global 2D/3D Profile Sensor market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

A 2D/3D profile sensor is a specialized device used to capture the shape, dimensions, and surface characteristics of objects in two or three dimensions. These sensors use technologies such as laser triangulation, structured light, or stereo vision to measure the profiles of objects with high precision and speed. In 2D mode, the sensor captures cross-sectional data, providing a detailed outline of the object's shape, while in 3D mode, it constructs a comprehensive three-dimensional model of the object's surface. These sensors are widely used in industrial automation, quality control, robotics, and manufacturing processes to ensure accuracy, detect defects, and improve product consistency.

United States market for 2D/3D Profile Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 2D/3D Profile Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 2D/3D Profile Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 2D/3D Profile Sensor players cover Keyence, Hexagon, Teledyne DALSA, Cognex, Wenglor, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the '2D/3D Profile Sensor Industry Forecast' looks at past sales and reviews total world 2D/3D Profile Sensor sales in

2025, providing a comprehensive analysis by region and market sector of projected 2D/3D Profile Sensor sales for 2026 through 2032. With 2D/3D Profile Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 2D/3D Profile Sensor industry.

This Insight Report provides a comprehensive analysis of the global 2D/3D Profile Sensor 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 2D/3D Profile Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 2D/3D Profile Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 2D/3D Profile Sensor 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 2D/3D Profile Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of 2D/3D Profile Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

800 mm

Segmentation by Application:

Automobile

Electronics

Manufacturing

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.

Keyence

Hexagon

Teledyne DALSA

Cognex

Wenglor

Micro-Epsilon

Mech-Mind

LMI Technologies

Pepperl+Fuchs

Vision Components

Acuity Laser

Tsingbo

Bzhd laser

SmartRay

Matrox

Key Questions Addressed in this Report

What is the 10-year outlook for the global 2D/3D Profile Sensor market?

What factors are driving 2D/3D Profile Sensor market growth, globally and by region?

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

How do 2D/3D Profile Sensor market opportunities vary by end market size?

How does 2D/3D Profile Sensor break out by Type, by 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 2D/3D Profile Sensor Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for 2D/3D Profile Sensor by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for 2D/3D Profile Sensor by Country/Region, 2021, 2025 & 2032
- 2.2 2D/3D Profile Sensor Segment by Type
 - 2.2.1 800 mm
 - 2.2.5 2D/3D Profile Sensor Sales by Type
 - 2.2.5.1 Global 2D/3D Profile Sensor Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global 2D/3D Profile Sensor Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global 2D/3D Profile Sensor Sale Price by Type (2021-2026)
- 2.3 2D/3D Profile Sensor Segment by Application
 - 2.3.1 Automobile
 - 2.3.2 Electronics
 - 2.3.3 Manufacturing
 - 2.3.4 Others
 - 2.3.5 2D/3D Profile Sensor Sales by Application
 - 2.3.5.1 Global 2D/3D Profile Sensor Sale Market Share by Application (2021-2026)
 - 2.3.5.2 Global 2D/3D Profile Sensor Revenue and Market Share by Application (2021-2026)
 - 2.3.5.3 Global 2D/3D Profile Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global 2D/3D Profile Sensor Breakdown Data by Company

3.1.1 Global 2D/3D Profile Sensor Annual Sales by Company (2021-2026)

3.1.2 Global 2D/3D Profile Sensor Sales Market Share by Company (2021-2026)

3.2 Global 2D/3D Profile Sensor Annual Revenue by Company (2021-2026)

3.2.1 Global 2D/3D Profile Sensor Revenue by Company (2021-2026)

3.2.2 Global 2D/3D Profile Sensor Revenue Market Share by Company (2021-2026)

3.3 Global 2D/3D Profile Sensor Sale Price by Company

3.4 Key Manufacturers 2D/3D Profile Sensor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers 2D/3D Profile Sensor Product Location Distribution

3.4.2 Players 2D/3D Profile Sensor 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 2D/3D PROFILE SENSOR BY GEOGRAPHIC REGION

4.1 World Historic 2D/3D Profile Sensor Market Size by Geographic Region (2021-2026)

4.1.1 Global 2D/3D Profile Sensor Annual Sales by Geographic Region (2021-2026)

4.1.2 Global 2D/3D Profile Sensor Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic 2D/3D Profile Sensor Market Size by Country/Region (2021-2026)

4.2.1 Global 2D/3D Profile Sensor Annual Sales by Country/Region (2021-2026)

4.2.2 Global 2D/3D Profile Sensor Annual Revenue by Country/Region (2021-2026)

4.3 Americas 2D/3D Profile Sensor Sales Growth

4.4 APAC 2D/3D Profile Sensor Sales Growth

4.5 Europe 2D/3D Profile Sensor Sales Growth

4.6 Middle East & Africa 2D/3D Profile Sensor Sales Growth

5 AMERICAS

5.1 Americas 2D/3D Profile Sensor Sales by Country

5.1.1 Americas 2D/3D Profile Sensor Sales by Country (2021-2026)

- 5.1.2 Americas 2D/3D Profile Sensor Revenue by Country (2021-2026)
- 5.2 Americas 2D/3D Profile Sensor Sales by Type (2021-2026)
- 5.3 Americas 2D/3D Profile Sensor Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC 2D/3D Profile Sensor Sales by Region
 - 6.1.1 APAC 2D/3D Profile Sensor Sales by Region (2021-2026)
 - 6.1.2 APAC 2D/3D Profile Sensor Revenue by Region (2021-2026)
- 6.2 APAC 2D/3D Profile Sensor Sales by Type (2021-2026)
- 6.3 APAC 2D/3D Profile Sensor 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 2D/3D Profile Sensor by Country
 - 7.1.1 Europe 2D/3D Profile Sensor Sales by Country (2021-2026)
 - 7.1.2 Europe 2D/3D Profile Sensor Revenue by Country (2021-2026)
- 7.2 Europe 2D/3D Profile Sensor Sales by Type (2021-2026)
- 7.3 Europe 2D/3D Profile Sensor 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 2D/3D Profile Sensor by Country

- 8.1.1 Middle East & Africa 2D/3D Profile Sensor Sales by Country (2021-2026)
- 8.1.2 Middle East & Africa 2D/3D Profile Sensor Revenue by Country (2021-2026)
- 8.2 Middle East & Africa 2D/3D Profile Sensor Sales by Type (2021-2026)
- 8.3 Middle East & Africa 2D/3D Profile Sensor 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 2D/3D Profile Sensor
- 10.3 Manufacturing Process Analysis of 2D/3D Profile Sensor
- 10.4 Industry Chain Structure of 2D/3D Profile Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 2D/3D Profile Sensor Distributors
- 11.3 2D/3D Profile Sensor Customer

12 WORLD FORECAST REVIEW FOR 2D/3D PROFILE SENSOR BY GEOGRAPHIC REGION

- 12.1 Global 2D/3D Profile Sensor Market Size Forecast by Region
 - 12.1.1 Global 2D/3D Profile Sensor Forecast by Region (2027-2032)
 - 12.1.2 Global 2D/3D Profile Sensor 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 2D/3D Profile Sensor Forecast by Type (2027-2032)
- 12.7 Global 2D/3D Profile Sensor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Keyence

- 13.1.1 Keyence Company Information
- 13.1.2 Keyence 2D/3D Profile Sensor Product Portfolios and Specifications
- 13.1.3 Keyence 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Keyence Main Business Overview
- 13.1.5 Keyence Latest Developments

13.2 Hexagon

- 13.2.1 Hexagon Company Information
- 13.2.2 Hexagon 2D/3D Profile Sensor Product Portfolios and Specifications
- 13.2.3 Hexagon 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Hexagon Main Business Overview
- 13.2.5 Hexagon Latest Developments

13.3 Teledyne DALSA

- 13.3.1 Teledyne DALSA Company Information
- 13.3.2 Teledyne DALSA 2D/3D Profile Sensor Product Portfolios and Specifications
- 13.3.3 Teledyne DALSA 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Teledyne DALSA Main Business Overview
- 13.3.5 Teledyne DALSA Latest Developments

13.4 Cognex

- 13.4.1 Cognex Company Information
- 13.4.2 Cognex 2D/3D Profile Sensor Product Portfolios and Specifications
- 13.4.3 Cognex 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Cognex Main Business Overview
- 13.4.5 Cognex Latest Developments

13.5 Wenglor

- 13.5.1 Wenglor Company Information
- 13.5.2 Wenglor 2D/3D Profile Sensor Product Portfolios and Specifications
- 13.5.3 Wenglor 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin

(2021-2026)

13.5.4 Wenglor Main Business Overview

13.5.5 Wenglor Latest Developments

13.6 Micro-Epsilon

13.6.1 Micro-Epsilon Company Information

13.6.2 Micro-Epsilon 2D/3D Profile Sensor Product Portfolios and Specifications

13.6.3 Micro-Epsilon 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin

(2021-2026)

13.6.4 Micro-Epsilon Main Business Overview

13.6.5 Micro-Epsilon Latest Developments

13.7 Mech-Mind

13.7.1 Mech-Mind Company Information

13.7.2 Mech-Mind 2D/3D Profile Sensor Product Portfolios and Specifications

13.7.3 Mech-Mind 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin

(2021-2026)

13.7.4 Mech-Mind Main Business Overview

13.7.5 Mech-Mind Latest Developments

13.8 LMI Technologies

13.8.1 LMI Technologies Company Information

13.8.2 LMI Technologies 2D/3D Profile Sensor Product Portfolios and Specifications

13.8.3 LMI Technologies 2D/3D Profile Sensor Sales, Revenue, Price and Gross

Margin (2021-2026)

13.8.4 LMI Technologies Main Business Overview

13.8.5 LMI Technologies Latest Developments

13.9 Pepperl+Fuchs

13.9.1 Pepperl+Fuchs Company Information

13.9.2 Pepperl+Fuchs 2D/3D Profile Sensor Product Portfolios and Specifications

13.9.3 Pepperl+Fuchs 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin

(2021-2026)

13.9.4 Pepperl+Fuchs Main Business Overview

13.9.5 Pepperl+Fuchs Latest Developments

13.10 Vision Components

13.10.1 Vision Components Company Information

13.10.2 Vision Components 2D/3D Profile Sensor Product Portfolios and
Specifications

13.10.3 Vision Components 2D/3D Profile Sensor Sales, Revenue, Price and Gross
Margin (2021-2026)

13.10.4 Vision Components Main Business Overview

13.10.5 Vision Components Latest Developments

13.11 Acuity Laser

13.11.1 Acuity Laser Company Information

13.11.2 Acuity Laser 2D/3D Profile Sensor Product Portfolios and Specifications

13.11.3 Acuity Laser 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Acuity Laser Main Business Overview

13.11.5 Acuity Laser Latest Developments

13.12 Tsingbo

13.12.1 Tsingbo Company Information

13.12.2 Tsingbo 2D/3D Profile Sensor Product Portfolios and Specifications

13.12.3 Tsingbo 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Tsingbo Main Business Overview

13.12.5 Tsingbo Latest Developments

13.13 Bzhd laser

13.13.1 Bzhd laser Company Information

13.13.2 Bzhd laser 2D/3D Profile Sensor Product Portfolios and Specifications

13.13.3 Bzhd laser 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Bzhd laser Main Business Overview

13.13.5 Bzhd laser Latest Developments

13.14 SmartRay

13.14.1 SmartRay Company Information

13.14.2 SmartRay 2D/3D Profile Sensor Product Portfolios and Specifications

13.14.3 SmartRay 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 SmartRay Main Business Overview

13.14.5 SmartRay Latest Developments

13.15 Matrox

13.15.1 Matrox Company Information

13.15.2 Matrox 2D/3D Profile Sensor Product Portfolios and Specifications

13.15.3 Matrox 2D/3D Profile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Matrox Main Business Overview

13.15.5 Matrox Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. 2D/3D Profile Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. 2D/3D Profile Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of 800 mm
- Table 7. Global 2D/3D Profile Sensor Sales by Type (2021-2026) & (Units)
- Table 8. Global 2D/3D Profile Sensor Sales Market Share by Type (2021-2026)
- Table 9. Global 2D/3D Profile Sensor Revenue by Type (2021-2026) & (\$ million)
- Table 10. Global 2D/3D Profile Sensor Revenue Market Share by Type (2021-2026)
- Table 11. Global 2D/3D Profile Sensor Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 12. Global 2D/3D Profile Sensor Sale by Application (2021-2026) & (Units)
- Table 13. Global 2D/3D Profile Sensor Sale Market Share by Application (2021-2026)
- Table 14. Global 2D/3D Profile Sensor Revenue by Application (2021-2026) & (\$ million)
- Table 15. Global 2D/3D Profile Sensor Revenue Market Share by Application (2021-2026)
- Table 16. Global 2D/3D Profile Sensor Sale Price by Application (2021-2026) & (US\$/Unit)
- Table 17. Global 2D/3D Profile Sensor Sales by Company (2021-2026) & (Units)
- Table 18. Global 2D/3D Profile Sensor Sales Market Share by Company (2021-2026)
- Table 19. Global 2D/3D Profile Sensor Revenue by Company (2021-2026) & (\$ millions)
- Table 20. Global 2D/3D Profile Sensor Revenue Market Share by Company (2021-2026)
- Table 21. Global 2D/3D Profile Sensor Sale Price by Company (2021-2026) & (US\$/Unit)
- Table 22. Key Manufacturers 2D/3D Profile Sensor Producing Area Distribution and Sales Area
- Table 23. Players 2D/3D Profile Sensor Products Offered
- Table 24. 2D/3D Profile Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 25. New Products and Potential Entrants
- Table 26. Market M&A Activity & Strategy
- Table 27. Global 2D/3D Profile Sensor Sales by Geographic Region (2021-2026) & (Units)
- Table 28. Global 2D/3D Profile Sensor Sales Market Share Geographic Region

(2021-2026)

Table 29. Global 2D/3D Profile Sensor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 30. Global 2D/3D Profile Sensor Revenue Market Share by Geographic Region (2021-2026)

Table 31. Global 2D/3D Profile Sensor Sales by Country/Region (2021-2026) & (Units)

Table 32. Global 2D/3D Profile Sensor Sales Market Share by Country/Region (2021-2026)

Table 33. Global 2D/3D Profile Sensor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 34. Global 2D/3D Profile Sensor Revenue Market Share by Country/Region (2021-2026)

Table 35. Americas 2D/3D Profile Sensor Sales by Country (2021-2026) & (Units)

Table 36. Americas 2D/3D Profile Sensor Sales Market Share by Country (2021-2026)

Table 37. Americas 2D/3D Profile Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 38. Americas 2D/3D Profile Sensor Sales by Type (2021-2026) & (Units)

Table 39. Americas 2D/3D Profile Sensor Sales by Application (2021-2026) & (Units)

Table 40. APAC 2D/3D Profile Sensor Sales by Region (2021-2026) & (Units)

Table 41. APAC 2D/3D Profile Sensor Sales Market Share by Region (2021-2026)

Table 42. APAC 2D/3D Profile Sensor Revenue by Region (2021-2026) & (\$ millions)

Table 43. APAC 2D/3D Profile Sensor Sales by Type (2021-2026) & (Units)

Table 44. APAC 2D/3D Profile Sensor Sales by Application (2021-2026) & (Units)

Table 45. Europe 2D/3D Profile Sensor Sales by Country (2021-2026) & (Units)

Table 46. Europe 2D/3D Profile Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 47. Europe 2D/3D Profile Sensor Sales by Type (2021-2026) & (Units)

Table 48. Europe 2D/3D Profile Sensor Sales by Application (2021-2026) & (Units)

Table 49. Middle East & Africa 2D/3D Profile Sensor Sales by Country (2021-2026) & (Units)

Table 50. Middle East & Africa 2D/3D Profile Sensor Revenue Market Share by Country (2021-2026)

Table 51. Middle East & Africa 2D/3D Profile Sensor Sales by Type (2021-2026) & (Units)

Table 52. Middle East & Africa 2D/3D Profile Sensor Sales by Application (2021-2026) & (Units)

Table 53. Key Market Drivers & Growth Opportunities of 2D/3D Profile Sensor

Table 54. Key Market Challenges & Risks of 2D/3D Profile Sensor

Table 55. Key Industry Trends of 2D/3D Profile Sensor

Table 56. 2D/3D Profile Sensor Raw Material

Table 57. Key Suppliers of Raw Materials

Table 58. 2D/3D Profile Sensor Distributors List

Table 59. 2D/3D Profile Sensor Customer List

Table 60. Global 2D/3D Profile Sensor Sales Forecast by Region (2027-2032) & (Units)

Table 61. Global 2D/3D Profile Sensor Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 62. Americas 2D/3D Profile Sensor Sales Forecast by Country (2027-2032) & (Units)

Table 63. Americas 2D/3D Profile Sensor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 64. APAC 2D/3D Profile Sensor Sales Forecast by Region (2027-2032) & (Units)

Table 65. APAC 2D/3D Profile Sensor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 66. Europe 2D/3D Profile Sensor Sales Forecast by Country (2027-2032) & (Units)

Table 67. Europe 2D/3D Profile Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 68. Middle East & Africa 2D/3D Profile Sensor Sales Forecast by Country (2027-2032) & (Units)

Table 69. Middle East & Africa 2D/3D Profile Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 70. Global 2D/3D Profile Sensor Sales Forecast by Type (2027-2032) & (Units)

Table 71. Global 2D/3D Profile Sensor Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 72. Global 2D/3D Profile Sensor Sales Forecast by Application (2027-2032) & (Units)

Table 73. Global 2D/3D Profile Sensor Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 74. Keyence Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 75. Keyence 2D/3D Profile Sensor Product Portfolios and Specifications

Table 76. Keyence 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 77. Keyence Main Business

Table 78. Keyence Latest Developments

Table 79. Hexagon Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 80. Hexagon 2D/3D Profile Sensor Product Portfolios and Specifications

Table 81. Hexagon 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price

(US\$/Unit) and Gross Margin (2021-2026)

Table 82. Hexagon Main Business

Table 83. Hexagon Latest Developments

Table 84. Teledyne DALSA Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 85. Teledyne DALSA 2D/3D Profile Sensor Product Portfolios and Specifications

Table 86. Teledyne DALSA 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 87. Teledyne DALSA Main Business

Table 88. Teledyne DALSA Latest Developments

Table 89. Cognex Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 90. Cognex 2D/3D Profile Sensor Product Portfolios and Specifications

Table 91. Cognex 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Cognex Main Business

Table 93. Cognex Latest Developments

Table 94. Wenglor Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 95. Wenglor 2D/3D Profile Sensor Product Portfolios and Specifications

Table 96. Wenglor 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Wenglor Main Business

Table 98. Wenglor Latest Developments

Table 99. Micro-Epsilon Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 100. Micro-Epsilon 2D/3D Profile Sensor Product Portfolios and Specifications

Table 101. Micro-Epsilon 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Micro-Epsilon Main Business

Table 103. Micro-Epsilon Latest Developments

Table 104. Mech-Mind Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 105. Mech-Mind 2D/3D Profile Sensor Product Portfolios and Specifications

Table 106. Mech-Mind 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Mech-Mind Main Business

Table 108. Mech-Mind Latest Developments

Table 109. LMI Technologies Basic Information, 2D/3D Profile Sensor Manufacturing

Base, Sales Area and Its Competitors

Table 110. LMI Technologies 2D/3D Profile Sensor Product Portfolios and Specifications

Table 111. LMI Technologies 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. LMI Technologies Main Business

Table 113. LMI Technologies Latest Developments

Table 114. Pepperl+Fuchs Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 115. Pepperl+Fuchs 2D/3D Profile Sensor Product Portfolios and Specifications

Table 116. Pepperl+Fuchs 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Pepperl+Fuchs Main Business

Table 118. Pepperl+Fuchs Latest Developments

Table 119. Vision Components Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 120. Vision Components 2D/3D Profile Sensor Product Portfolios and Specifications

Table 121. Vision Components 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Vision Components Main Business

Table 123. Vision Components Latest Developments

Table 124. Acuity Laser Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 125. Acuity Laser 2D/3D Profile Sensor Product Portfolios and Specifications

Table 126. Acuity Laser 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Acuity Laser Main Business

Table 128. Acuity Laser Latest Developments

Table 129. Tsingbo Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 130. Tsingbo 2D/3D Profile Sensor Product Portfolios and Specifications

Table 131. Tsingbo 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Tsingbo Main Business

Table 133. Tsingbo Latest Developments

Table 134. Bzhd laser Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 135. Bzhd laser 2D/3D Profile Sensor Product Portfolios and Specifications

Table 136. Bzhd laser 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. Bzhd laser Main Business

Table 138. Bzhd laser Latest Developments

Table 139. SmartRay Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 140. SmartRay 2D/3D Profile Sensor Product Portfolios and Specifications

Table 141. SmartRay 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. SmartRay Main Business

Table 143. SmartRay Latest Developments

Table 144. Matrox Basic Information, 2D/3D Profile Sensor Manufacturing Base, Sales Area and Its Competitors

Table 145. Matrox 2D/3D Profile Sensor Product Portfolios and Specifications

Table 146. Matrox 2D/3D Profile Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. Matrox Main Business

Table 148. Matrox Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of 2D/3D Profile Sensor
- Figure 2. 2D/3D Profile Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global 2D/3D Profile Sensor Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global 2D/3D Profile Sensor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. 2D/3D Profile Sensor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. 2D/3D Profile Sensor Sales Market Share by Country/Region (2025)
- Figure 10. 2D/3D Profile Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 800 mm
- Figure 15. Global 2D/3D Profile Sensor Sales Market Share by Type in 2026
- Figure 16. Global 2D/3D Profile Sensor Revenue Market Share by Type (2021-2026)
- Figure 17. 2D/3D Profile Sensor Consumed in Automobile
- Figure 18. Global 2D/3D Profile Sensor Market: Automobile (2021-2026) & (Units)
- Figure 19. 2D/3D Profile Sensor Consumed in Electronics
- Figure 20. Global 2D/3D Profile Sensor Market: Electronics (2021-2026) & (Units)
- Figure 21. 2D/3D Profile Sensor Consumed in Manufacturing
- Figure 22. Global 2D/3D Profile Sensor Market: Manufacturing (2021-2026) & (Units)
- Figure 23. 2D/3D Profile Sensor Consumed in Others
- Figure 24. Global 2D/3D Profile Sensor Market: Others (2021-2026) & (Units)
- Figure 25. Global 2D/3D Profile Sensor Sale Market Share by Application (2025)
- Figure 26. Global 2D/3D Profile Sensor Revenue Market Share by Application in 2026
- Figure 27. 2D/3D Profile Sensor Sales by Company in 2026 (Units)
- Figure 28. Global 2D/3D Profile Sensor Sales Market Share by Company in 2026
- Figure 29. 2D/3D Profile Sensor Revenue by Company in 2026 (\$ millions)
- Figure 30. Global 2D/3D Profile Sensor Revenue Market Share by Company in 2026
- Figure 31. Global 2D/3D Profile Sensor Sales Market Share by Geographic Region (2021-2026)
- Figure 32. Global 2D/3D Profile Sensor Revenue Market Share by Geographic Region in 2026
- Figure 33. Americas 2D/3D Profile Sensor Sales 2021-2026 (Units)
- Figure 34. Americas 2D/3D Profile Sensor Revenue 2021-2026 (\$ millions)

- Figure 35. APAC 2D/3D Profile Sensor Sales 2021-2026 (Units)
- Figure 36. APAC 2D/3D Profile Sensor Revenue 2021-2026 (\$ millions)
- Figure 37. Europe 2D/3D Profile Sensor Sales 2021-2026 (Units)
- Figure 38. Europe 2D/3D Profile Sensor Revenue 2021-2026 (\$ millions)
- Figure 39. Middle East & Africa 2D/3D Profile Sensor Sales 2021-2026 (Units)
- Figure 40. Middle East & Africa 2D/3D Profile Sensor Revenue 2021-2026 (\$ millions)
- Figure 41. Americas 2D/3D Profile Sensor Sales Market Share by Country in 2026
- Figure 42. Americas 2D/3D Profile Sensor Revenue Market Share by Country (2021-2026)
- Figure 43. Americas 2D/3D Profile Sensor Sales Market Share by Type (2021-2026)
- Figure 44. Americas 2D/3D Profile Sensor Sales Market Share by Application (2021-2026)
- Figure 45. United States 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 46. Canada 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 47. Mexico 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 48. Brazil 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 49. APAC 2D/3D Profile Sensor Sales Market Share by Region in 2026
- Figure 50. APAC 2D/3D Profile Sensor Revenue Market Share by Region (2021-2026)
- Figure 51. APAC 2D/3D Profile Sensor Sales Market Share by Type (2021-2026)
- Figure 52. APAC 2D/3D Profile Sensor Sales Market Share by Application (2021-2026)
- Figure 53. China 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Japan 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 55. South Korea 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Southeast Asia 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 57. India 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 58. Australia 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 59. China Taiwan 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 60. Europe 2D/3D Profile Sensor Sales Market Share by Country in 2026
- Figure 61. Europe 2D/3D Profile Sensor Revenue Market Share by Country (2021-2026)
- Figure 62. Europe 2D/3D Profile Sensor Sales Market Share by Type (2021-2026)
- Figure 63. Europe 2D/3D Profile Sensor Sales Market Share by Application (2021-2026)
- Figure 64. Germany 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 65. France 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 66. UK 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Italy 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Russia 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Middle East & Africa 2D/3D Profile Sensor Sales Market Share by Country

(2021-2026)

Figure 70. Middle East & Africa 2D/3D Profile Sensor Sales Market Share by Type

(2021-2026)

Figure 71. Middle East & Africa 2D/3D Profile Sensor Sales Market Share by

Application (2021-2026)

Figure 72. Egypt 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 73. South Africa 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 74. Israel 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 75. Turkey 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 76. GCC Countries 2D/3D Profile Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of 2D/3D Profile Sensor in 2026

Figure 78. Manufacturing Process Analysis of 2D/3D Profile Sensor

Figure 79. Industry Chain Structure of 2D/3D Profile Sensor

Figure 80. Channels of Distribution

Figure 81. Global 2D/3D Profile Sensor Sales Market Forecast by Region (2027-2032)

Figure 82. Global 2D/3D Profile Sensor Revenue Market Share Forecast by Region (2027-2032)

Figure 83. Global 2D/3D Profile Sensor Sales Market Share Forecast by Type (2027-2032)

Figure 84. Global 2D/3D Profile Sensor Revenue Market Share Forecast by Type (2027-2032)

Figure 85. Global 2D/3D Profile Sensor Sales Market Share Forecast by Application (2027-2032)

Figure 86. Global 2D/3D Profile Sensor Revenue Market Share Forecast by Application (2027-2032)

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