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Global Vision-based Tactile Sensor Market Growth 2026-2032

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Abstracts

The global Vision-based Tactile Sensor market size is predicted to grow from US$ 52.83 million in 2025 to US$ 196 million in 2032; it is expected to grow at a CAGR of 20.7% from 2026 to 2032.

Vision-based Tactile Sensor is a sensing method that integrates optical imaging with tactile perception. Its core principle is to capture the microscopic deformation of elastic materials when they contact objects and convert it into high-resolution tactile information. The principle of the vision-based tactile sensor is to use a camera to capture the subtle deformation of the elastic material when it contacts the object, and then convert these changes into a high-definition "tactile photo", observing the deformation of the soft layer through the camera to "feel" the force, texture and sliding. Unlike traditional pressure sensors, tactile sensors can simultaneously "feel" the hardness, texture, and even sliding tendency of objects. This high-fidelity tactile information can help robots more accurately "understand" the characteristics of objects and perform fine operations like humans. Vision-based tactile sensors use optical principles to perceive multi-dimensional information without electrical interference, but real-time feedback and flexible response are limited, susceptible to temperature effects and have a large volume. In 2025, global Vision-based Tactile Sensor production reached approximately 154 k units with an average global market price of around US$350 per unit. Single-line annual production capacity averages 6k units with a gross margin of approximately 30-35%.

From the perspective of enterprise revenue and profit, the future trajectory of the Vision-based Tactile Sensor industry is shifting from laboratory prototypes to mass-producible, low-cost industrial products. In its 2023 official press release, GelSight announced that it has achieved automated film packaging for Vision-based Tactile Sensors, directly

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changing the previous dilemma of high costs due to reliance on manual assembly. This means that supply chain bottlenecks are being broken, and production ramp-up will determine which company can first gain a profit advantage. Meta, in its publicly disclosed progress on the Digit tactile sensor in 2024, pointed out that the core competitiveness of vision-based tactile solutions has shifted from resolution to durability and data throughput. This forces sensor companies to invest in R&D for material wear resistance and high-speed image processing, or face the risk of losing orders. The Catalogue for Innovative Development of Industrial Foundation issued by the Chinese government has included high-resolution flexible tactile sensors in the list of key basic components. This policy signal means that if domestic vision-based tactile companies can achieve industrial-grade mass production yield rates, they will have the opportunity to enter the state-funded procurement system for core robot components, thereby securing sustained and stable shipment volumes rather than relying solely on venture capital and laboratory orders. Sony disclosed in its 2023 corporate annual report that it has deployed its stacked CMOS image sensor technology down to robot tactile perception modules. This indicates that leading semiconductor companies are redefining the Vision-based Tactile Sensor from an independent sensor into a miniature optical system integrated into fingertips or palms. This modularization trend will squeeze the profit margins of pure-algorithm startups, as they can no longer maintain pricing solely through software differentiation but must partner with manufacturers possessing wafer-level fabrication capabilities. In summary, the major industry trends are that the cost structure is shifting from manual assembly to wafer-level packaging, the core of the supply chain is shifting from algorithm teams to flexible optical materials and chip design capabilities, and the profit source is shifting from customized scientific research projects to scaled industrial supply.

LP Information, Inc. (LPI) ' newest research report, the “Vision-based Tactile Sensor Industry Forecast” looks at past sales and reviews total world Vision-based Tactile Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Vision-based Tactile Sensor sales for 2026 through 2032. With Vision-based Tactile Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Vision-based Tactile Sensor industry.

This Insight Report provides a comprehensive analysis of the global Vision-based Tactile 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 Vision-based Tactile Sensor portfolios and capabilities, market entry strategies, market

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positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vision-based Tactile Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vision-based Tactile 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 Vision-based Tactile Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Vision-based Tactile Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Consumer-grade

Industrial-grade

Segmentation by Technical Route:

Based on Monochromatic Light

Based on Trichromatic Light

Segmentation by Contact Module:

Simple Marker Based (SMB)

Morphological Marker-Based (MMB)

Segmentation by Application:

Industrial Automation

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Medical

Embodied AI

Consumer Electronics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

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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.

GelSight

Daimon (Shenzhen) Robotics Technology

Shanghai Vitai Robotics

Shenzhen Orisys

Shenzhen Ecomo Technology

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Vision-based Tactile Sensor market?

What factors are driving Vision-based Tactile Sensor market growth, globally and by region?

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

How do Vision-based Tactile Sensor market opportunities vary by end market size?

How does Vision-based Tactile Sensor break out by Type, by Application?

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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 Vision-based Tactile Sensor Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Vision-based Tactile Sensor by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Vision-based Tactile Sensor by Country/Region, 2021, 2025 & 2032
2.2 Vision-based Tactile Sensor Segment by Type
  2.2.1 Consumer-grade
  2.2.2 Industrial-grade
  2.2.3 Vision-based Tactile Sensor Sales by Type
    2.2.3.1 Global Vision-based Tactile Sensor Sales Market Share by Type (2021-2026)
    2.2.3.2 Global Vision-based Tactile Sensor Revenue and Market Share by Type (2021-2026)
    2.2.3.3 Global Vision-based Tactile Sensor Sale Price by Type (2021-2026)
2.3 Vision-based Tactile Sensor Segment by Technical Route
  2.3.1 Based on Monochromatic Light
  2.3.2 Based on Trichromatic Light
  2.3.3 Vision-based Tactile Sensor Sales by Technical Route
    2.3.3.1 Global Vision-based Tactile Sensor Sales Market Share by Technical Route (2021-2026)
    2.3.3.2 Global Vision-based Tactile Sensor Revenue and Market Share by Technical Route (2021-2026)
    2.3.3.3 Global Vision-based Tactile Sensor Sale Price by Technical Route (2021-2026)

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2.4 Vision-based Tactile Sensor Segment by Contact Module
2.4.1 Simple Marker Based (SMB)
2.4.2 Morphological Marker-Based (MMB)
2.4.3 Vision-based Tactile Sensor Sales by Contact Module
2.4.3.1 Global Vision-based Tactile Sensor Sales Market Share by Contact Module (2021-2026)
2.4.3.2 Global Vision-based Tactile Sensor Revenue and Market Share by Contact Module (2021-2026)
2.4.3.3 Global Vision-based Tactile Sensor Sale Price by Contact Module (2021-2026)
2.5 Vision-based Tactile Sensor Segment by Application
2.5.1 Industrial Automation
2.5.2 Medical
2.5.3 Embodied AI
2.5.4 Consumer Electronics
2.5.5 Others
2.5.6 Vision-based Tactile Sensor Sales by Application
2.5.6.1 Global Vision-based Tactile Sensor Sale Market Share by Application (2021-2026)
2.5.6.2 Global Vision-based Tactile Sensor Revenue and Market Share by Application (2021-2026)
2.5.6.3 Global Vision-based Tactile Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Vision-based Tactile Sensor Breakdown Data by Company
3.1.1 Global Vision-based Tactile Sensor Annual Sales by Company (2021-2026)
3.1.2 Global Vision-based Tactile Sensor Sales Market Share by Company (2021-2026)
3.2 Global Vision-based Tactile Sensor Annual Revenue by Company (2021-2026)
3.2.1 Global Vision-based Tactile Sensor Revenue by Company (2021-2026)
3.2.2 Global Vision-based Tactile Sensor Revenue Market Share by Company (2021-2026)
3.3 Global Vision-based Tactile Sensor Sale Price by Company
3.4 Key Manufacturers Vision-based Tactile Sensor Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Vision-based Tactile Sensor Product Location Distribution
3.4.2 Players Vision-based Tactile Sensor Products Offered
3.5 Market Concentration Rate Analysis

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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 VISION-BASED TACTILE SENSOR BY GEOGRAPHIC REGION

4.1 World Historic Vision-based Tactile Sensor Market Size by Geographic Region (2021-2026)
4.1.1 Global Vision-based Tactile Sensor Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Vision-based Tactile Sensor Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Vision-based Tactile Sensor Market Size by Country/Region (2021-2026)
4.2.1 Global Vision-based Tactile Sensor Annual Sales by Country/Region (2021-2026)
4.2.2 Global Vision-based Tactile Sensor Annual Revenue by Country/Region (2021-2026)
4.3 Americas Vision-based Tactile Sensor Sales Growth
4.4 APAC Vision-based Tactile Sensor Sales Growth
4.5 Europe Vision-based Tactile Sensor Sales Growth
4.6 Middle East & Africa Vision-based Tactile Sensor Sales Growth

5 AMERICAS

5.1 Americas Vision-based Tactile Sensor Sales by Country
5.1.1 Americas Vision-based Tactile Sensor Sales by Country (2021-2026)
5.1.2 Americas Vision-based Tactile Sensor Revenue by Country (2021-2026)
5.2 Americas Vision-based Tactile Sensor Sales by Type (2021-2026)
5.3 Americas Vision-based Tactile Sensor Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

+357 96 030922
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6.1 APAC Vision-based Tactile Sensor Sales by Region
6.1.1 APAC Vision-based Tactile Sensor Sales by Region (2021-2026)
6.1.2 APAC Vision-based Tactile Sensor Revenue by Region (2021-2026)
6.2 APAC Vision-based Tactile Sensor Sales by Type (2021-2026)
6.3 APAC Vision-based Tactile 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 Vision-based Tactile Sensor by Country
7.1.1 Europe Vision-based Tactile Sensor Sales by Country (2021-2026)
7.1.2 Europe Vision-based Tactile Sensor Revenue by Country (2021-2026)
7.2 Europe Vision-based Tactile Sensor Sales by Type (2021-2026)
7.3 Europe Vision-based Tactile 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 Vision-based Tactile Sensor by Country
8.1.1 Middle East & Africa Vision-based Tactile Sensor Sales by Country (2021-2026)
8.1.2 Middle East & Africa Vision-based Tactile Sensor Revenue by Country (2021-2026)
8.2 Middle East & Africa Vision-based Tactile Sensor Sales by Type (2021-2026)
8.3 Middle East & Africa Vision-based Tactile Sensor Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

+357 96 030922
info@marketpublishers.com

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 Vision-based Tactile Sensor
10.3 Manufacturing Process Analysis of Vision-based Tactile Sensor
10.4 Industry Chain Structure of Vision-based Tactile Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Vision-based Tactile Sensor Distributors
11.3 Vision-based Tactile Sensor Customer

12 WORLD FORECAST REVIEW FOR VISION-BASED TACTILE SENSOR BY GEOGRAPHIC REGION

12.1 Global Vision-based Tactile Sensor Market Size Forecast by Region
  12.1.1 Global Vision-based Tactile Sensor Forecast by Region (2027-2032)
  12.1.2 Global Vision-based Tactile 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 Vision-based Tactile Sensor Forecast by Type (2027-2032)
12.7 Global Vision-based Tactile Sensor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 GelSight

+357 96 030922
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13.1.1 GelSight Company Information
13.1.2 GelSight Vision-based Tactile Sensor Product Portfolios and Specifications
13.1.3 GelSight Vision-based Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 GelSight Main Business Overview
13.1.5 GelSight Latest Developments
13.2 Daimon (Shenzhen) Robotics Technology
13.2.1 Daimon (Shenzhen) Robotics Technology Company Information
13.2.2 Daimon (Shenzhen) Robotics Technology Vision-based Tactile Sensor Product Portfolios and Specifications
13.2.3 Daimon (Shenzhen) Robotics Technology Vision-based Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Daimon (Shenzhen) Robotics Technology Main Business Overview
13.2.5 Daimon (Shenzhen) Robotics Technology Latest Developments
13.3 Shanghai Vitai Robotics
13.3.1 Shanghai Vitai Robotics Company Information
13.3.2 Shanghai Vitai Robotics Vision-based Tactile Sensor Product Portfolios and Specifications
13.3.3 Shanghai Vitai Robotics Vision-based Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Shanghai Vitai Robotics Main Business Overview
13.3.5 Shanghai Vitai Robotics Latest Developments
13.4 Shenzhen Orisys
13.4.1 Shenzhen Orisys Company Information
13.4.2 Shenzhen Orisys Vision-based Tactile Sensor Product Portfolios and Specifications
13.4.3 Shenzhen Orisys Vision-based Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Shenzhen Orisys Main Business Overview
13.4.5 Shenzhen Orisys Latest Developments
13.5 Shenzhen Ecomo Technology
13.5.1 Shenzhen Ecomo Technology Company Information
13.5.2 Shenzhen Ecomo Technology Vision-based Tactile Sensor Product Portfolios and Specifications
13.5.3 Shenzhen Ecomo Technology Vision-based Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Shenzhen Ecomo Technology Main Business Overview
13.5.5 Shenzhen Ecomo Technology Latest Developments

+357 96 030922
info@marketpublishers.com

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. Vision-based Tactile Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Vision-based Tactile Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Consumer-grade
Table 4. Major Players of Industrial-grade
Table 5. Global Vision-based Tactile Sensor Sales by Type (2021-2026) & (K Units)
Table 6. Global Vision-based Tactile Sensor Sales Market Share by Type (2021-2026)
Table 7. Global Vision-based Tactile Sensor Revenue by Type (2021-2026) & ($ million)
Table 8. Global Vision-based Tactile Sensor Revenue Market Share by Type (2021-2026)
Table 9. Global Vision-based Tactile Sensor Sale Price by Type (2021-2026) & (US$/Unit)
Table 10. Major Players of Based on Monochromatic Light
Table 11. Major Players of Based on Trichromatic Light
Table 12. Global Vision-based Tactile Sensor Sales by Technical Route (2021-2026) & (K Units)
Table 13. Global Vision-based Tactile Sensor Sales Market Share by Technical Route (2021-2026)
Table 14. Global Vision-based Tactile Sensor Revenue by Technical Route (2021-2026) & ($ million)
Table 15. Global Vision-based Tactile Sensor Revenue Market Share by Technical Route (2021-2026)
Table 16. Global Vision-based Tactile Sensor Sale Price by Technical Route (2021-2026) & (US$/Unit)
Table 17. Major Players of Simple Marker Based (SMB)
Table 18. Major Players of Morphological Marker-Based (MMB)
Table 19. Global Vision-based Tactile Sensor Sales by Contact Module (2021-2026) & (K Units)
Table 20. Global Vision-based Tactile Sensor Sales Market Share by Contact Module (2021-2026)
Table 21. Global Vision-based Tactile Sensor Revenue by Contact Module (2021-2026) & ($ million)
Table 22. Global Vision-based Tactile Sensor Revenue Market Share by Contact Module (2021-2026)

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Table 23. Global Vision-based Tactile Sensor Sale Price by Contact Module (2021-2026) & (US$/Unit)
Table 24. Global Vision-based Tactile Sensor Sale by Application (2021-2026) & (K Units)
Table 25. Global Vision-based Tactile Sensor Sale Market Share by Application (2021-2026)
Table 26. Global Vision-based Tactile Sensor Revenue by Application (2021-2026) & ($ million)
Table 27. Global Vision-based Tactile Sensor Revenue Market Share by Application (2021-2026)
Table 28. Global Vision-based Tactile Sensor Sale Price by Application (2021-2026) & (US$/Unit)
Table 29. Global Vision-based Tactile Sensor Sales by Company (2021-2026) & (K Units)
Table 30. Global Vision-based Tactile Sensor Sales Market Share by Company (2021-2026)
Table 31. Global Vision-based Tactile Sensor Revenue by Company (2021-2026) & ($ millions)
Table 32. Global Vision-based Tactile Sensor Revenue Market Share by Company (2021-2026)
Table 33. Global Vision-based Tactile Sensor Sale Price by Company (2021-2026) & (US$/Unit)
Table 34. Key Manufacturers Vision-based Tactile Sensor Producing Area Distribution and Sales Area
Table 35. Players Vision-based Tactile Sensor Products Offered
Table 36. Vision-based Tactile Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 37. New Products and Potential Entrants
Table 38. Market M&A Activity & Strategy
Table 39. Global Vision-based Tactile Sensor Sales by Geographic Region (2021-2026) & (K Units)
Table 40. Global Vision-based Tactile Sensor Sales Market Share Geographic Region (2021-2026)
Table 41. Global Vision-based Tactile Sensor Revenue by Geographic Region (2021-2026) & ($ millions)
Table 42. Global Vision-based Tactile Sensor Revenue Market Share by Geographic Region (2021-2026)
Table 43. Global Vision-based Tactile Sensor Sales by Country/Region (2021-2026) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 44. Global Vision-based Tactile Sensor Sales Market Share by Country/Region (2021-2026)
Table 45. Global Vision-based Tactile Sensor Revenue by Country/Region (2021-2026) & ($ millions)
Table 46. Global Vision-based Tactile Sensor Revenue Market Share by Country/Region (2021-2026)
Table 47. Americas Vision-based Tactile Sensor Sales by Country (2021-2026) & (K Units)
Table 48. Americas Vision-based Tactile Sensor Sales Market Share by Country (2021-2026)
Table 49. Americas Vision-based Tactile Sensor Revenue by Country (2021-2026) & ($ millions)
Table 50. Americas Vision-based Tactile Sensor Sales by Type (2021-2026) & (K Units)
Table 51. Americas Vision-based Tactile Sensor Sales by Application (2021-2026) & (K Units)
Table 52. APAC Vision-based Tactile Sensor Sales by Region (2021-2026) & (K Units)
Table 53. APAC Vision-based Tactile Sensor Sales Market Share by Region (2021-2026)
Table 54. APAC Vision-based Tactile Sensor Revenue by Region (2021-2026) & ($ millions)
Table 55. APAC Vision-based Tactile Sensor Sales by Type (2021-2026) & (K Units)
Table 56. APAC Vision-based Tactile Sensor Sales by Application (2021-2026) & (K Units)
Table 57. Europe Vision-based Tactile Sensor Sales by Country (2021-2026) & (K Units)
Table 58. Europe Vision-based Tactile Sensor Revenue by Country (2021-2026) & ($ millions)
Table 59. Europe Vision-based Tactile Sensor Sales by Type (2021-2026) & (K Units)
Table 60. Europe Vision-based Tactile Sensor Sales by Application (2021-2026) & (K Units)
Table 61. Middle East & Africa Vision-based Tactile Sensor Sales by Country (2021-2026) & (K Units)
Table 62. Middle East & Africa Vision-based Tactile Sensor Revenue Market Share by Country (2021-2026)
Table 63. Middle East & Africa Vision-based Tactile Sensor Sales by Type (2021-2026) & (K Units)
Table 64. Middle East & Africa Vision-based Tactile Sensor Sales by Application (2021-2026) & (K Units)
Table 65. Key Market Drivers & Growth Opportunities of Vision-based Tactile Sensor

+357 96 030922
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Table 66. Key Market Challenges & Risks of Vision-based Tactile Sensor
Table 67. Key Industry Trends of Vision-based Tactile Sensor
Table 68. Vision-based Tactile Sensor Raw Material
Table 69. Key Suppliers of Raw Materials
Table 70. Vision-based Tactile Sensor Distributors List
Table 71. Vision-based Tactile Sensor Customer List
Table 72. Global Vision-based Tactile Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 73. Global Vision-based Tactile Sensor Revenue Forecast by Region (2027-2032) & ($ millions)
Table 74. Americas Vision-based Tactile Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 75. Americas Vision-based Tactile Sensor Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 76. APAC Vision-based Tactile Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 77. APAC Vision-based Tactile Sensor Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 78. Europe Vision-based Tactile Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 79. Europe Vision-based Tactile Sensor Revenue Forecast by Country (2027-2032) & ($ millions)
Table 80. Middle East & Africa Vision-based Tactile Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 81. Middle East & Africa Vision-based Tactile Sensor Revenue Forecast by Country (2027-2032) & ($ millions)
Table 82. Global Vision-based Tactile Sensor Sales Forecast by Type (2027-2032) & (K Units)
Table 83. Global Vision-based Tactile Sensor Revenue Forecast by Type (2027-2032) & ($ millions)
Table 84. Global Vision-based Tactile Sensor Sales Forecast by Application (2027-2032) & (K Units)
Table 85. Global Vision-based Tactile Sensor Revenue Forecast by Application (2027-2032) & ($ millions)
Table 86. GelSight Basic Information, Vision-based Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 87. GelSight Vision-based Tactile Sensor Product Portfolios and Specifications
Table 88. GelSight Vision-based Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 89. GelSight Main Business
Table 90. GelSight Latest Developments
Table 91. Daimon (Shenzhen) Robotics Technology Basic Information, Vision-based Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 92. Daimon (Shenzhen) Robotics Technology Vision-based Tactile Sensor Product Portfolios and Specifications
Table 93. Daimon (Shenzhen) Robotics Technology Vision-based Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 94. Daimon (Shenzhen) Robotics Technology Main Business
Table 95. Daimon (Shenzhen) Robotics Technology Latest Developments
Table 96. Shanghai Vitai Robotics Basic Information, Vision-based Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 97. Shanghai Vitai Robotics Vision-based Tactile Sensor Product Portfolios and Specifications
Table 98. Shanghai Vitai Robotics Vision-based Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 99. Shanghai Vitai Robotics Main Business
Table 100. Shanghai Vitai Robotics Latest Developments
Table 101. Shenzhen Orisys Basic Information, Vision-based Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 102. Shenzhen Orisys Vision-based Tactile Sensor Product Portfolios and Specifications
Table 103. Shenzhen Orisys Vision-based Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 104. Shenzhen Orisys Main Business
Table 105. Shenzhen Orisys Latest Developments
Table 106. Shenzhen Ecomo Technology Basic Information, Vision-based Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 107. Shenzhen Ecomo Technology Vision-based Tactile Sensor Product Portfolios and Specifications
Table 108. Shenzhen Ecomo Technology Vision-based Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 109. Shenzhen Ecomo Technology Main Business
Table 110. Shenzhen Ecomo Technology Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Vision-based Tactile Sensor
Figure 2. Vision-based Tactile Sensor Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Vision-based Tactile Sensor Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Vision-based Tactile Sensor Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Vision-based Tactile Sensor Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Vision-based Tactile Sensor Sales Market Share by Country/Region (2025)
Figure 10. Vision-based Tactile Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Consumer-grade
Figure 12. Product Picture of Industrial-grade
Figure 13. Global Vision-based Tactile Sensor Sales Market Share by Type in 2026
Figure 14. Global Vision-based Tactile Sensor Revenue Market Share by Type (2021-2026)
Figure 15. Product Picture of Based on Monochromatic Light
Figure 16. Product Picture of Based on Trichromatic Light
Figure 17. Global Vision-based Tactile Sensor Sales Market Share by Technical Route in 2026
Figure 18. Global Vision-based Tactile Sensor Revenue Market Share by Technical Route (2021-2026)
Figure 19. Product Picture of Simple Marker Based (SMB)
Figure 20. Product Picture of Morphological Marker-Based (MMB)
Figure 21. Global Vision-based Tactile Sensor Sales Market Share by Contact Module in 2026
Figure 22. Global Vision-based Tactile Sensor Revenue Market Share by Contact Module (2021-2026)
Figure 23. Vision-based Tactile Sensor Consumed in Industrial Automation
Figure 24. Global Vision-based Tactile Sensor Market: Industrial Automation (2021-2026) & (K Units)
Figure 25. Vision-based Tactile Sensor Consumed in Medical
Figure 26. Global Vision-based Tactile Sensor Market: Medical (2021-2026) & (K Units)

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Figure 27. Vision-based Tactile Sensor Consumed in Embodied AI
Figure 28. Global Vision-based Tactile Sensor Market: Embodied AI (2021-2026) & (K Units)
Figure 29. Vision-based Tactile Sensor Consumed in Consumer Electronics
Figure 30. Global Vision-based Tactile Sensor Market: Consumer Electronics (2021-2026) & (K Units)
Figure 31. Vision-based Tactile Sensor Consumed in Others
Figure 32. Global Vision-based Tactile Sensor Market: Others (2021-2026) & (K Units)
Figure 33. Global Vision-based Tactile Sensor Sale Market Share by Application (2025)
Figure 34. Global Vision-based Tactile Sensor Revenue Market Share by Application in 2025
Figure 35. Vision-based Tactile Sensor Sales by Company in 2025 (K Units)
Figure 36. Global Vision-based Tactile Sensor Sales Market Share by Company in 2025
Figure 37. Vision-based Tactile Sensor Revenue by Company in 2025 ($ millions)
Figure 38. Global Vision-based Tactile Sensor Revenue Market Share by Company in 2025
Figure 39. Global Vision-based Tactile Sensor Sales Market Share by Geographic Region (2021-2026)
Figure 40. Global Vision-based Tactile Sensor Revenue Market Share by Geographic Region in 2025
Figure 41. Americas Vision-based Tactile Sensor Sales 2021-2026 (K Units)
Figure 42. Americas Vision-based Tactile Sensor Revenue 2021-2026 ($ millions)
Figure 43. APAC Vision-based Tactile Sensor Sales 2021-2026 (K Units)
Figure 44. APAC Vision-based Tactile Sensor Revenue 2021-2026 ($ millions)
Figure 45. Europe Vision-based Tactile Sensor Sales 2021-2026 (K Units)
Figure 46. Europe Vision-based Tactile Sensor Revenue 2021-2026 ($ millions)
Figure 47. Middle East & Africa Vision-based Tactile Sensor Sales 2021-2026 (K Units)
Figure 48. Middle East & Africa Vision-based Tactile Sensor Revenue 2021-2026 ($ millions)
Figure 49. Americas Vision-based Tactile Sensor Sales Market Share by Country in 2025
Figure 50. Americas Vision-based Tactile Sensor Revenue Market Share by Country (2021-2026)
Figure 51. Americas Vision-based Tactile Sensor Sales Market Share by Type (2021-2026)
Figure 52. Americas Vision-based Tactile Sensor Sales Market Share by Application (2021-2026)
Figure 53. United States Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)

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Figure 54. Canada Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 55. Mexico Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 56. Brazil Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 57. APAC Vision-based Tactile Sensor Sales Market Share by Region in 2025
Figure 58. APAC Vision-based Tactile Sensor Revenue Market Share by Region (2021-2026)
Figure 59. APAC Vision-based Tactile Sensor Sales Market Share by Type (2021-2026)
Figure 60. APAC Vision-based Tactile Sensor Sales Market Share by Application (2021-2026)
Figure 61. China Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 62. Japan Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 63. South Korea Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 64. Southeast Asia Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 65. India Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 66. Australia Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 67. China Taiwan Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 68. Europe Vision-based Tactile Sensor Sales Market Share by Country in 2025
Figure 69. Europe Vision-based Tactile Sensor Revenue Market Share by Country (2021-2026)
Figure 70. Europe Vision-based Tactile Sensor Sales Market Share by Type (2021-2026)
Figure 71. Europe Vision-based Tactile Sensor Sales Market Share by Application (2021-2026)
Figure 72. Germany Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 73. France Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 74. UK Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 75. Italy Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 76. Russia Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 77. Middle East & Africa Vision-based Tactile Sensor Sales Market Share by Country (2021-2026)
Figure 78. Middle East & Africa Vision-based Tactile Sensor Sales Market Share by Type (2021-2026)
Figure 79. Middle East & Africa Vision-based Tactile Sensor Sales Market Share by Application (2021-2026)

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Figure 80. Egypt Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 81. South Africa Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 82. Israel Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 83. Turkey Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 84. GCC Countries Vision-based Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 85. Manufacturing Cost Structure Analysis of Vision-based Tactile Sensor in 2026
Figure 86. Manufacturing Process Analysis of Vision-based Tactile Sensor
Figure 87. Industry Chain Structure of Vision-based Tactile Sensor
Figure 88. Channels of Distribution
Figure 89. Global Vision-based Tactile Sensor Sales Market Forecast by Region (2027-2032)
Figure 90. Global Vision-based Tactile Sensor Revenue Market Share Forecast by Region (2027-2032)
Figure 91. Global Vision-based Tactile Sensor Sales Market Share Forecast by Type (2027-2032)
Figure 92. Global Vision-based Tactile Sensor Revenue Market Share Forecast by Type (2027-2032)
Figure 93. Global Vision-based Tactile Sensor Sales Market Share Forecast by Application (2027-2032)
Figure 94. Global Vision-based Tactile Sensor Revenue Market Share Forecast by Application (2027-2032)

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