

Global Star Sensor Market Research Report 2026(Status and Outlook)

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Abstracts

The star sensor is an attitude measurement device that uses stars as a reference source. It is currently the most precise spacecraft attitude determination tool with the smallest error over time. It has the advantages of good autonomy, good passive star measurement concealment, strong anti-electromagnetic interference ability, high attitude and orientation accuracy, and errors do not accumulate over time. It is mainly used for attitude control and astronomical navigation of satellites and spacecrafts. The star sensor is mainly divided into two parts: imaging system and image processing system in terms of working principle. The star sensor first uses an optical lens and an image sensor to image a star. After star point extraction and centroid positioning, the position and brightness information of the star point on the image sensor target surface is obtained. Then the star point corresponding to the star point in the star catalog is obtained through star map recognition. Finally, the three-axis attitude of the star sensor is obtained through attitude calculation based on the recognition results, providing attitude data for the carrier control system to realize the navigation of the carrier. The current major global manufacturers of star sensors include BAE Systems (Ball Aerospace), Sodern, Rocket Lab, CASC 8th Academy 803 Research Institute and CASC 5th Academy 502 Research Institute. In 2024, the top three manufacturers will account for 70.62% of the global revenue market share. From a regional perspective, the UK maintains its leading position in the European market, and it is expected that the important market position of the Asia-Pacific region will become more prominent in the next few years. From the perspective of product type and technology, small and mini models occupy an important position and are expected to account for more than 50% of global revenue in 2031. From the perspective of product market application, commercial use plays an important role, and it is expected that global revenue will account for 82.81% in 2031. Satellites have become a new area of ??competition and competition between major powers, and various countries have strategically supported the

development of this industry. Commercial aerospace is shifting from traditional space exploration to broader commercial applications, which has brought broad development opportunities for star sensors. However, due to the particularity of the product, the development of star sensors will be affected by technology, geopolitics, etc.

The global Star Sensor market size was estimated at USD 145.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 28.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Star Sensor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Star Sensor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Star Sensor market.

Global Star Sensor Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the

unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

BAE Systems (Ball Aerospace)
Sodern
Rocket Lab
CASC 8th Academy 803 Research Institute
CASC 5th Academy 502 Research Institute
Blue Canyon Technologies
Hubei Jiuzhiyang Infrared System
AAC Clyde Space
TY-Space
Berlin Space Technologies
TERMA
VECTRONIC Aerospace
NanoAvionics
CubeSpace
KAIROSPACE
Antrix Corporation
Solar MEMS
Leonardo

Market Segmentation (by Type)

Mini
Micro
Nano

Market Segmentation (by Application)

Military and Government
Commercial

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Star Sensor Market

Overview of the regional outlook of the Star Sensor Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Star Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Star Sensor, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change. This enables you to anticipate market changes to remain ahead of your competitors. You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents.

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Star Sensor

1.2 Key Market Segments

1.2.1 Star Sensor Segment by Type

1.2.2 Star Sensor Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 STAR SENSOR MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Star Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Star Sensor Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 STAR SENSOR MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Star Sensor Product Life Cycle

3.3 Global Star Sensor Sales by Manufacturers (2020-2025)

3.4 Global Star Sensor Revenue Market Share by Manufacturers (2020-2025)

3.5 Star Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Star Sensor Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Star Sensor Market Competitive Situation and Trends

3.8.1 Star Sensor Market Concentration Rate

3.8.2 Global 5 and 10 Largest Star Sensor Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 STAR SENSOR INDUSTRY CHAIN ANALYSIS

- 4.1 Star Sensor Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF STAR SENSOR MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Star Sensor Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Star Sensor Market
- 5.7 ESG Ratings of Leading Companies

6 STAR SENSOR MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Star Sensor Sales Market Share by Type (2020-2025)
- 6.3 Global Star Sensor Market Size by Type (2020-2025)
- 6.4 Global Star Sensor Price by Type (2020-2025)

7 STAR SENSOR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Star Sensor Market Sales by Application (2020-2025)
- 7.3 Global Star Sensor Market Size (M USD) by Application (2020-2025)
- 7.4 Global Star Sensor Sales Growth Rate by Application (2020-2025)

8 STAR SENSOR MARKET SALES BY REGION

8.1 Global Star Sensor Sales by Region

8.1.1 Global Star Sensor Sales by Region

8.1.2 Global Star Sensor Sales Market Share by Region

8.2 Global Star Sensor Market Size by Region

8.2.1 Global Star Sensor Market Size by Region

8.2.2 Global Star Sensor Market Size by Region

8.3 North America

8.3.1 North America Star Sensor Sales by Country

8.3.2 North America Star Sensor Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Star Sensor Sales by Country

8.4.2 Europe Star Sensor Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Star Sensor Sales by Region

8.5.2 Asia Pacific Star Sensor Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Star Sensor Sales by Country

8.6.2 South America Star Sensor Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Star Sensor Sales by Region

8.7.2 Middle East and Africa Star Sensor Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 STAR SENSOR MARKET PRODUCTION BY REGION

9.1 Global Production of Star Sensor by Region(2020-2025)

9.2 Global Star Sensor Revenue Market Share by Region (2020-2025)

9.3 Global Star Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Star Sensor Production

9.4.1 North America Star Sensor Production Growth Rate (2020-2025)

9.4.2 North America Star Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Star Sensor Production

9.5.1 Europe Star Sensor Production Growth Rate (2020-2025)

9.5.2 Europe Star Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Star Sensor Production (2020-2025)

9.6.1 Japan Star Sensor Production Growth Rate (2020-2025)

9.6.2 Japan Star Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Star Sensor Production (2020-2025)

9.7.1 China Star Sensor Production Growth Rate (2020-2025)

9.7.2 China Star Sensor Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 BAE Systems (Ball Aerospace)

10.1.1 BAE Systems (Ball Aerospace) Basic Information

10.1.2 BAE Systems (Ball Aerospace) Star Sensor Product Overview

10.1.3 BAE Systems (Ball Aerospace) Star Sensor Product Market Performance

10.1.4 BAE Systems (Ball Aerospace) Business Overview

10.1.5 BAE Systems (Ball Aerospace) SWOT Analysis

10.1.6 BAE Systems (Ball Aerospace) Recent Developments

10.2 Sodern

10.2.1 Sodern Basic Information

10.2.2 Sodern Star Sensor Product Overview

10.2.3 Sodern Star Sensor Product Market Performance

- 10.2.4 Sodern Business Overview
- 10.2.5 Sodern SWOT Analysis
- 10.2.6 Sodern Recent Developments
- 10.3 Rocket Lab
 - 10.3.1 Rocket Lab Basic Information
 - 10.3.2 Rocket Lab Star Sensor Product Overview
 - 10.3.3 Rocket Lab Star Sensor Product Market Performance
 - 10.3.4 Rocket Lab Business Overview
 - 10.3.5 Rocket Lab SWOT Analysis
 - 10.3.6 Rocket Lab Recent Developments
- 10.4 CASC 8th Academy 803 Research Institute
 - 10.4.1 CASC 8th Academy 803 Research Institute Basic Information
 - 10.4.2 CASC 8th Academy 803 Research Institute Star Sensor Product Overview
 - 10.4.3 CASC 8th Academy 803 Research Institute Star Sensor Product Market Performance
 - 10.4.4 CASC 8th Academy 803 Research Institute Business Overview
 - 10.4.5 CASC 8th Academy 803 Research Institute Recent Developments
- 10.5 CASC 5th Academy 502 Research Institute
 - 10.5.1 CASC 5th Academy 502 Research Institute Basic Information
 - 10.5.2 CASC 5th Academy 502 Research Institute Star Sensor Product Overview
 - 10.5.3 CASC 5th Academy 502 Research Institute Star Sensor Product Market Performance
 - 10.5.4 CASC 5th Academy 502 Research Institute Business Overview
 - 10.5.5 CASC 5th Academy 502 Research Institute Recent Developments
- 10.6 Blue Canyon Technologies
 - 10.6.1 Blue Canyon Technologies Basic Information
 - 10.6.2 Blue Canyon Technologies Star Sensor Product Overview
 - 10.6.3 Blue Canyon Technologies Star Sensor Product Market Performance
 - 10.6.4 Blue Canyon Technologies Business Overview
 - 10.6.5 Blue Canyon Technologies Recent Developments
- 10.7 Hubei Jiuzhiyang Infrared System
 - 10.7.1 Hubei Jiuzhiyang Infrared System Basic Information
 - 10.7.2 Hubei Jiuzhiyang Infrared System Star Sensor Product Overview
 - 10.7.3 Hubei Jiuzhiyang Infrared System Star Sensor Product Market Performance
 - 10.7.4 Hubei Jiuzhiyang Infrared System Business Overview
 - 10.7.5 Hubei Jiuzhiyang Infrared System Recent Developments
- 10.8 AAC Clyde Space
 - 10.8.1 AAC Clyde Space Basic Information
 - 10.8.2 AAC Clyde Space Star Sensor Product Overview

- 10.8.3 AAC Clyde Space Star Sensor Product Market Performance
- 10.8.4 AAC Clyde Space Business Overview
- 10.8.5 AAC Clyde Space Recent Developments
- 10.9 TY-Space
 - 10.9.1 TY-Space Basic Information
 - 10.9.2 TY-Space Star Sensor Product Overview
 - 10.9.3 TY-Space Star Sensor Product Market Performance
 - 10.9.4 TY-Space Business Overview
 - 10.9.5 TY-Space Recent Developments
- 10.10 Berlin Space Technologies
 - 10.10.1 Berlin Space Technologies Basic Information
 - 10.10.2 Berlin Space Technologies Star Sensor Product Overview
 - 10.10.3 Berlin Space Technologies Star Sensor Product Market Performance
 - 10.10.4 Berlin Space Technologies Business Overview
 - 10.10.5 Berlin Space Technologies Recent Developments
- 10.11 TERMA
 - 10.11.1 TERMA Basic Information
 - 10.11.2 TERMA Star Sensor Product Overview
 - 10.11.3 TERMA Star Sensor Product Market Performance
 - 10.11.4 TERMA Business Overview
 - 10.11.5 TERMA Recent Developments
- 10.12 VECTRONIC Aerospace
 - 10.12.1 VECTRONIC Aerospace Basic Information
 - 10.12.2 VECTRONIC Aerospace Star Sensor Product Overview
 - 10.12.3 VECTRONIC Aerospace Star Sensor Product Market Performance
 - 10.12.4 VECTRONIC Aerospace Business Overview
 - 10.12.5 VECTRONIC Aerospace Recent Developments
- 10.13 NanoAvionics
 - 10.13.1 NanoAvionics Basic Information
 - 10.13.2 NanoAvionics Star Sensor Product Overview
 - 10.13.3 NanoAvionics Star Sensor Product Market Performance
 - 10.13.4 NanoAvionics Business Overview
 - 10.13.5 NanoAvionics Recent Developments
- 10.14 CubeSpace
 - 10.14.1 CubeSpace Basic Information
 - 10.14.2 CubeSpace Star Sensor Product Overview
 - 10.14.3 CubeSpace Star Sensor Product Market Performance
 - 10.14.4 CubeSpace Business Overview
 - 10.14.5 CubeSpace Recent Developments

10.15 KAIROSPACE

- 10.15.1 KAIROSPACE Basic Information
- 10.15.2 KAIROSPACE Star Sensor Product Overview
- 10.15.3 KAIROSPACE Star Sensor Product Market Performance
- 10.15.4 KAIROSPACE Business Overview
- 10.15.5 KAIROSPACE Recent Developments

10.16 Antrix Corporation

- 10.16.1 Antrix Corporation Basic Information
- 10.16.2 Antrix Corporation Star Sensor Product Overview
- 10.16.3 Antrix Corporation Star Sensor Product Market Performance
- 10.16.4 Antrix Corporation Business Overview
- 10.16.5 Antrix Corporation Recent Developments

10.17 Solar MEMS

- 10.17.1 Solar MEMS Basic Information
- 10.17.2 Solar MEMS Star Sensor Product Overview
- 10.17.3 Solar MEMS Star Sensor Product Market Performance
- 10.17.4 Solar MEMS Business Overview
- 10.17.5 Solar MEMS Recent Developments

10.18 Leonardo

- 10.18.1 Leonardo Basic Information
- 10.18.2 Leonardo Star Sensor Product Overview
- 10.18.3 Leonardo Star Sensor Product Market Performance
- 10.18.4 Leonardo Business Overview
- 10.18.5 Leonardo Recent Developments

11 STAR SENSOR MARKET FORECAST BY REGION

11.1 Global Star Sensor Market Size Forecast

11.2 Global Star Sensor Market Forecast by Region

- 11.2.1 North America Market Size Forecast by Country
- 11.2.2 Europe Star Sensor Market Size Forecast by Country
- 11.2.3 Asia Pacific Star Sensor Market Size Forecast by Region
- 11.2.4 South America Star Sensor Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Star Sensor by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Star Sensor Market Forecast by Type (2026-2035)

- 12.1.1 Global Forecasted Sales of Star Sensor by Type (2026-2035)

12.1.2 Global Star Sensor Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Star Sensor by Type (2026-2035)

12.2 Global Star Sensor Market Forecast by Application (2026-2035)

12.2.1 Global Star Sensor Sales (K Units) Forecast by Application

12.2.2 Global Star Sensor Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type
Table 2. Introduction of the Application
Table 3. Global Star Sensor Market Size by Type (M USD)
Table 4. Global Star Sensor Market Size by Application
Table 5. Star Sensor Market Size Comparison by Region (M USD)
Table 6. Global Star Sensor Sales (K Units) by Manufacturers (2020-2025)
Table 7. Global Star Sensor Sales Market Share by Manufacturers (2020-2025)
Table 8. Global Star Sensor Revenue (M USD) by Manufacturers (2020-2025)
Table 9. Global Star Sensor Revenue Share by Manufacturers (2020-2025)
Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Star Sensor as of 2025)
Table 11. Global Market Star Sensor Average Price (USD/Unit) of Key Manufacturers (2020-2025)
Table 12. Manufacturers? Manufacturing Sites, Areas Served
Table 13. Manufacturers? Product Type
Table 14. Global Star Sensor Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 15. Mergers & Acquisitions, Expansion Plans
Table 16. Market Overview of Key Raw Materials
Table 17. Midstream Market Analysis
Table 18. Downstream Customer Analysis
Table 19. Key Development Trends
Table 20. Driving Factors
Table 21. Star Sensor Market Challenges
Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
Table 26. Global Star Sensor Sales by Type (K Units)
Table 27. Global Star Sensor Market Size by Type (M USD)
Table 28. Global Star Sensor Sales (K Units) by Type (2020-2025)
Table 29. Global Star Sensor Sales Market Share by Type (2020-2025)
Table 30. Global Star Sensor Market Size (M USD) by Type (2020-2025)
Table 31. Global Star Sensor Market Share by Type (2020-2025)
Table 32. Global Star Sensor Price (USD/Unit) by Type (2020-2025)

Table 33. Global Star Sensor Sales (K Units) by Application
Table 34. Global Star Sensor Market Size by Application
Table 35. Global Star Sensor Sales by Application (2020-2025) & (K Units)
Table 36. Global Star Sensor Sales Market Share by Application (2020-2025)
Table 37. Global Star Sensor Market Size by Application (2020-2025) & (M USD)
Table 38. Global Star Sensor Market Share by Application (2020-2025)
Table 39. Global Star Sensor Sales Growth Rate by Application (2020-2025)
Table 40. Global Star Sensor Sales by Region (2020-2025) & (K Units)
Table 41. Global Star Sensor Sales Market Share by Region (2020-2025)
Table 42. Global Star Sensor Market Size by Region (2020-2025) & (M USD)
Table 43. Global Star Sensor Market Size by Region (2020-2025)
Table 44. North America Star Sensor Sales by Country (2020-2025) & (K Units)
Table 45. North America Star Sensor Market Size by Country (2020-2025) & (M USD)
Table 46. Europe Star Sensor Sales by Country (2020-2025) & (K Units)
Table 47. Europe Star Sensor Market Size by Country (2020-2025) & (M USD)
Table 48. Asia Pacific Star Sensor Sales by Region (2020-2025) & (K Units)
Table 49. Asia Pacific Star Sensor Market Size by Region (2020-2025) & (M USD)
Table 50. South America Star Sensor Sales by Country (2020-2025) & (K Units)
Table 51. South America Star Sensor Market Size by Country (2020-2025) & (M USD)
Table 52. Middle East and Africa Star Sensor Sales by Region (2020-2025) & (K Units)
Table 53. Middle East and Africa Star Sensor Market Size by Region (2020-2025) & (M USD)
Table 54. Global Star Sensor Production (K Units) by Region(2020-2025)
Table 55. Global Star Sensor Revenue (US\$ Million) by Region (2020-2025)
Table 56. Global Star Sensor Revenue Market Share by Region (2020-2025)
Table 57. Global Star Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 58. North America Star Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 59. Europe Star Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 60. Japan Star Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 61. China Star Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 62. BAE Systems (Ball Aerospace) Basic Information
Table 63. BAE Systems (Ball Aerospace) Star Sensor Product Overview
Table 64. BAE Systems (Ball Aerospace) Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. BAE Systems (Ball Aerospace) Business Overview
Table 66. BAE Systems (Ball Aerospace) SWOT Analysis
Table 67. BAE Systems (Ball Aerospace) Recent Developments
Table 68. Sodern Basic Information
Table 69. Sodern Star Sensor Product Overview
Table 70. Sodern Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 71. Sodern Business Overview
Table 72. Sodern SWOT Analysis
Table 73. Sodern Recent Developments
Table 74. Rocket Lab Basic Information
Table 75. Rocket Lab Star Sensor Product Overview
Table 76. Rocket Lab Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 77. Rocket Lab Business Overview
Table 78. Rocket Lab SWOT Analysis
Table 79. Rocket Lab Recent Developments
Table 80. CASC 8th Academy 803 Research Institute Basic Information
Table 81. CASC 8th Academy 803 Research Institute Star Sensor Product Overview
Table 82. CASC 8th Academy 803 Research Institute Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 83. CASC 8th Academy 803 Research Institute Business Overview
Table 84. CASC 8th Academy 803 Research Institute Recent Developments
Table 85. CASC 5th Academy 502 Research Institute Basic Information
Table 86. CASC 5th Academy 502 Research Institute Star Sensor Product Overview
Table 87. CASC 5th Academy 502 Research Institute Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 88. CASC 5th Academy 502 Research Institute Business Overview
Table 89. CASC 5th Academy 502 Research Institute Recent Developments
Table 90. Blue Canyon Technologies Basic Information
Table 91. Blue Canyon Technologies Star Sensor Product Overview
Table 92. Blue Canyon Technologies Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 93. Blue Canyon Technologies Business Overview
Table 94. Blue Canyon Technologies Recent Developments
Table 95. Hubei Jiuzhiyang Infrared System Basic Information
Table 96. Hubei Jiuzhiyang Infrared System Star Sensor Product Overview
Table 97. Hubei Jiuzhiyang Infrared System Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Hubei Jiuzhiyang Infrared System Business Overview
Table 99. Hubei Jiuzhiyang Infrared System Recent Developments
Table 100. AAC Clyde Space Basic Information
Table 101. AAC Clyde Space Star Sensor Product Overview
Table 102. AAC Clyde Space Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 103. AAC Clyde Space Business Overview
Table 104. AAC Clyde Space Recent Developments
Table 105. TY-Space Basic Information
Table 106. TY-Space Star Sensor Product Overview
Table 107. TY-Space Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 108. TY-Space Business Overview
Table 109. TY-Space Recent Developments
Table 110. Berlin Space Technologies Basic Information
Table 111. Berlin Space Technologies Star Sensor Product Overview
Table 112. Berlin Space Technologies Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 113. Berlin Space Technologies Business Overview
Table 114. Berlin Space Technologies Recent Developments
Table 115. TERMA Basic Information
Table 116. TERMA Star Sensor Product Overview
Table 117. TERMA Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 118. TERMA Business Overview
Table 119. TERMA Recent Developments
Table 120. VECTRONIC Aerospace Basic Information
Table 121. VECTRONIC Aerospace Star Sensor Product Overview
Table 122. VECTRONIC Aerospace Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 123. VECTRONIC Aerospace Business Overview
Table 124. VECTRONIC Aerospace Recent Developments
Table 125. NanoAvionics Basic Information
Table 126. NanoAvionics Star Sensor Product Overview
Table 127. NanoAvionics Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 128. NanoAvionics Business Overview
Table 129. NanoAvionics Recent Developments
Table 130. CubeSpace Basic Information

Table 131. CubeSpace Star Sensor Product Overview
Table 132. CubeSpace Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 133. CubeSpace Business Overview
Table 134. CubeSpace Recent Developments
Table 135. KAIROSPACE Basic Information
Table 136. KAIROSPACE Star Sensor Product Overview
Table 137. KAIROSPACE Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 138. KAIROSPACE Business Overview
Table 139. KAIROSPACE Recent Developments
Table 140. Antrix Corporation Basic Information
Table 141. Antrix Corporation Star Sensor Product Overview
Table 142. Antrix Corporation Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 143. Antrix Corporation Business Overview
Table 144. Antrix Corporation Recent Developments
Table 145. Solar MEMS Basic Information
Table 146. Solar MEMS Star Sensor Product Overview
Table 147. Solar MEMS Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 148. Solar MEMS Business Overview
Table 149. Solar MEMS Recent Developments
Table 150. Leonardo Basic Information
Table 151. Leonardo Star Sensor Product Overview
Table 152. Leonardo Star Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 153. Leonardo Business Overview
Table 154. Leonardo Recent Developments
Table 155. Global Star Sensor Sales Forecast by Region (2026-2035) & (K Units)
Table 156. Global Star Sensor Market Size Forecast by Region (2026-2035) & (M USD)
Table 157. North America Star Sensor Sales Forecast by Country (2026-2035) & (K Units)
Table 158. North America Star Sensor Market Size Forecast by Country (2026-2035) & (M USD)
Table 159. Europe Star Sensor Sales Forecast by Country (2026-2035) & (K Units)
Table 160. Europe Star Sensor Market Size Forecast by Country (2026-2035) & (M USD)
Table 161. Asia Pacific Star Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 162. Asia Pacific Star Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 163. South America Star Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 164. South America Star Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 165. Middle East and Africa Star Sensor Sales Forecast by Country (2026-2035) & (Units)

Table 166. Middle East and Africa Star Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 167. Global Star Sensor Sales Forecast by Type (2026-2035) & (K Units)

Table 168. Global Star Sensor Market Size Forecast by Type (2026-2035) & (M USD)

Table 169. Global Star Sensor Price Forecast by Type (2026-2035) & (USD/Unit)

Table 170. Global Star Sensor Sales (K Units) Forecast by Application (2026-2035)

Table 171. Global Star Sensor Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Star Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Star Sensor Market Size (M USD), 2025-2035
- Figure 5. Global Star Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global Star Sensor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Star Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Star Sensor Product Life Cycle
- Figure 13. Star Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global Star Sensor Revenue Share by Manufacturers in 2025
- Figure 15. Star Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Star Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Star Sensor Revenue in 2025
- Figure 18. Industry Chain Map of Star Sensor
- Figure 19. Global Star Sensor Market PEST Analysis
- Figure 20. Global Star Sensor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Star Sensor Market Share by Type
- Figure 27. Sales Market Share of Star Sensor by Type (2020-2025)
- Figure 28. Sales Market Share of Star Sensor by Type in 2025
- Figure 29. Market Share of Star Sensor by Type (2020-2025)
- Figure 30. Market Share of Star Sensor by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Star Sensor Market Share by Application
- Figure 33. Global Star Sensor Sales Market Share by Application (2020-2025)

- Figure 34. Global Star Sensor Sales Market Share by Application in 2025
- Figure 35. Global Star Sensor Market Share by Application (2020-2025)
- Figure 36. Global Star Sensor Market Share by Application in 2025
- Figure 37. Global Star Sensor Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Star Sensor Sales Market Share by Region (2020-2025)
- Figure 39. Global Star Sensor Market Size by Region (2020-2025)
- Figure 40. North America Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Star Sensor Sales Market Share by Country in 2024
- Figure 43. North America Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Star Sensor Market Size by Country in 2024
- Figure 45. U.S. Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Star Sensor Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Star Sensor Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Star Sensor Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Star Sensor Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Star Sensor Sales Market Share by Country in 2024
- Figure 53. Europe Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Star Sensor Market Size by Country in 2024
- Figure 55. Germany Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 56. Germany Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 58. France Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 60. U.K. Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 61. Italy Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 62. Italy Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 63. Spain Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 64. Spain Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 65. Asia Pacific Star Sensor Sales and Growth Rate (K Units)
- Figure 66. Asia Pacific Star Sensor Sales Market Share by Region in 2024
- Figure 67. Asia Pacific Star Sensor Market Size by Region in 2024
- Figure 68. China Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 69. China Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 70. Japan Star Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 71. Japan Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Star Sensor Sales and Growth Rate (K Units)

Figure 79. South America Star Sensor Sales Market Share by Country in 2024

Figure 80. South America Star Sensor Market Size and Growth Rate (M USD)

Figure 81. South America Star Sensor Market Size by Country in 2024

Figure 82. Brazil Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Star Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Star Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Star Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Star Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Star Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Star Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Star Sensor Production Market Share by Region (2020-2025)

Figure 103. North America Star Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Star Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Star Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Star Sensor Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Star Sensor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Star Sensor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Star Sensor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Star Sensor Market Share Forecast by Type (2026-2035)

Figure 111. Global Star Sensor Sales Forecast by Application (2026-2035)

Figure 112. Global Star Sensor Market Share Forecast by Application (2026-2035)

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