

Global Sun Sensor Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Sun Sensor market size will reach 38.99 Million USD in 2025 and is projected to reach 79.98 Million USD by 2032, with a CAGR of 10.81% (2025-2032). Notably, the China Sun Sensor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A sun sensor is a device used in spacecraft, satellites, and other aerospace applications to detect the direction of the sun relative to the spacecraft's orientation. It typically consists of a sensor assembly with one or more photodiodes or other light-sensitive elements arranged in a specific configuration to detect sunlight. Sun sensors are essential for spacecraft attitude control systems, which rely on accurate knowledge of the sun's position to orient the spacecraft and maintain its desired attitude or orientation relative to the sun. By continuously monitoring the sun's direction, sun sensors provide feedback to the spacecraft's control system, allowing it to make adjustments to the spacecraft's orientation as needed to optimize solar panel performance, minimize thermal fluctuations, and ensure proper communication with Earth. Sun sensors play a critical role in enabling spacecraft to operate efficiently and effectively in space environments.

The major global manufacturers of Sun Sensor include NewSpace Systems, Bradford Space, Adcole Space, GOMSpace, Space Micro, CubeSpace, Antrix Corporation, Hyperion Technologies, Sputnix, German Orbital Systems, Space Inventor, Needronix,

Cosats, Leonardo, LENS R&D, Crystal Space, Solar MEMS Technologies, Chang Guang Satellite, Tensor Tech, Optical Energy Technologies, Jena-Optronik GmbH, CASC – SAST Shanghai Academy of Spaceflight Tech, SpaceTech GmbH, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Sun Sensor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Sun Sensor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Sun Sensor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Sun Sensor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Sun Sensor Include:

NewSpace Systems

Bradford Space

Adcole Space

GOMSpace

Space Micro

CubeSpace

Antrix Corporation

Hyperion Technologies

Sputnix

German Orbital Systems

Space Inventor

Needronix

Cosats

Leonardo

LENS R&D

Crystal Space

Solar MEMS Technologies

Chang Guang Satellite

Tensor Tech

Optical Energy Technologies

Jena-Optronik GmbH

CASC – SAST Shanghai Academy of Spaceflight Tech

SpaceTech GmbH

Sun Sensor Product Segment Include:

Coarse Analog Sun Sensors

Fine Analog Sun Sensors

Digital Sun Sensors

Sun Sensor Product Application Include:

LEO

GEO

MEO

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Sun Sensor Industry PESTEL Analysis

Chapter 3: Global Sun Sensor Industry Porter's Five Forces Analysis

Chapter 4: Global Sun Sensor Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global Sun Sensor Market Size and Forecast by Type and Application Analysis

Chapter 6: North America Sun Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe Sun Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China Sun Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) Sun Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America Sun Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa Sun Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global Sun Sensor Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

Contents

1 SUN SENSOR MARKET OVERVIEW

- 1.1 Product Definition and Statistical Scope
- 1.2 Sun Sensor Product by Type
 - 1.2.1 Coarse Analog Sun Sensors
 - 1.2.2 Fine Analog Sun Sensors
 - 1.2.3 Digital Sun Sensors
- 1.3 Sun Sensor Product by Application
 - 1.3.1 LEO
 - 1.3.2 GEO
 - 1.3.3 MEO
 - 1.3.4 Others
- 1.4 Global Sun Sensor Market Revenue and Sales Analysis
 - 1.4.1 Global Sun Sensor Revenue Market Size Analysis (2020-2032)
 - 1.4.2 Global Sun Sensor Sales Market Size Analysis (2020-2032)
 - 1.4.3 Global Sun Sensor Market Sales Price Trend Analysis (2020-2032)
- 1.5 Sun Sensor Industry Trends and Innovation
 - 1.5.1 Sun Sensor Industry Trends and Innovation
 - 1.5.2 Sun Sensor Market Drivers and Challenges

2 SUN SENSOR MARKET PESTEL ANALYSIS

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

3 SUN SENSOR MARKET PORTER'S FIVE FORCES ANALYSIS

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

4 GLOBAL SUN SENSOR MARKET ANALYSIS BY REGIONS

- 4.1 Global Sun Sensor Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global Sun Sensor Revenue and Forecast Analysis (2020-2032)
 - 4.2.1 Global Sun Sensor Revenue and Market Share by Region (2020-2025)
 - 4.2.2 Global Sun Sensor Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global Sun Sensor Sales and Forecast Analysis (2020-2032)
 - 4.3.1 Global Sun Sensor Sales and Market Share by Region (2020-2025)
 - 4.3.2 Global Sun Sensor Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global Sun Sensor Sales Price Trend Analysis (2020-2032)

5 GLOBAL SUN SENSOR MARKET SIZE BY TYPE AND APPLICATION

- 5.1 Global Sun Sensor Market Size by Type
 - 5.1.1 Global Sun Sensor Revenue and Forecast Analysis by Type (2020-2032)
 - 5.1.2 Global Sun Sensor Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global Sun Sensor Market Size by Application
 - 5.2.1 Global Sun Sensor Revenue and Forecast Analysis by Application (2020-2032)
 - 5.2.2 Global Sun Sensor Sales and Forecast Analysis by Application (2020-2032)

6 NORTH AMERICA

- 6.1 North America Sun Sensor Market Size and Growth Rate Analysis (2020-2032)
- 6.2 North America Key Manufacturers Analysis
- 6.3 North America Sun Sensor Market Size by Type
 - 6.3.1 North America Sun Sensor Sales by Type (2020-2032)
 - 6.3.2 North America Sun Sensor Revenue by Type (2020-2032)
- 6.4 North America Sun Sensor Market Size by Application
 - 6.4.1 North America Sun Sensor Sales by Application (2020-2032)
 - 6.4.2 North America Sun Sensor Revenue by Application (2020-2032)
- 6.5 North America Sun Sensor Market Size by Country
 - 6.5.1 US
 - 6.5.2 Canada

7 EUROPE

- 7.1 Europe Sun Sensor Market Size and Growth Rate Analysis (2020-2032)
- 7.2 Europe Key Manufacturers Analysis
- 7.3 Europe Sun Sensor Market Size by Type

- 7.3.1 Europe Sun Sensor Sales by Type (2020-2032)
- 7.3.2 Europe Sun Sensor Revenue by Type (2020-2032)
- 7.4 Europe Sun Sensor Market Size by Application
 - 7.4.1 Europe Sun Sensor Sales by Application (2020-2032)
 - 7.4.2 Europe Sun Sensor Revenue by Application (2020-2032)
- 7.5 Europe Sun Sensor Market Size by Country
 - 7.5.1 Germany
 - 7.5.2 France
 - 7.5.3 United Kingdom
 - 7.5.4 Italy
 - 7.5.5 Spain
 - 7.5.6 Benelux

8 CHINA

- 8.1 China Sun Sensor Market Size and Growth Rate Analysis (2020-2032)
- 8.2 China Key Manufacturers Analysis
- 8.3 China Sun Sensor Market Size by Type
 - 8.3.1 China Sun Sensor Sales by Type (2020-2032)
 - 8.3.2 China Sun Sensor Revenue by Type (2020-2032)
- 8.4 China Sun Sensor Market Size by Application
 - 8.4.1 China Sun Sensor Sales by Application (2020-2032)
 - 8.4.2 China Sun Sensor Revenue by Application (2020-2032)

9 APAC (EXCL. CHINA)

- 9.1 APAC (excl. China) Sun Sensor Market Size and Growth Rate Analysis (2020-2032)
- 9.2 APAC (excl. China) Key Manufacturers Analysis
- 9.3 APAC (excl. China) Sun Sensor Market Size by Type
 - 9.3.1 APAC (excl. China) Sun Sensor Sales by Type (2020-2032)
 - 9.3.2 APAC (excl. China) Sun Sensor Revenue by Type (2020-2032)
- 9.4 APAC (excl. China) Sun Sensor Market Size by Application
 - 9.4.1 APAC (excl. China) Sun Sensor Sales by Application (2020-2032)
 - 9.4.2 APAC (excl. China) Sun Sensor Revenue by Application (2020-2032)
- 9.5 APAC (excl. China) Sun Sensor Market Size by Country
 - 9.5.1 Japan
 - 9.5.2 South Korea
 - 9.5.3 India
 - 9.5.4 Australia

9.5.5 Southeast Asia

10 LATIN AMERICA

10.1 Latin America Sun Sensor Market Size and Growth Rate Analysis (2020-2032)

10.2 Latin America Key Manufacturers Analysis

10.3 Latin America Sun Sensor Market Size by Type

10.3.1 Latin America Sun Sensor Sales by Type (2020-2032)

10.3.2 Latin America Sun Sensor Revenue by Type (2020-2032)

10.4 Latin America Sun Sensor Market Size by Application

10.4.1 Latin America Sun Sensor Sales by Application (2020-2032)

10.4.2 Latin America Sun Sensor Revenue by Application (2020-2032)

10.5 Latin America Sun Sensor Market Size by Country

10.6 Latin America Sun Sensor Market Size by Country

10.6.1 Mexico

10.6.2 Brazil

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Sun Sensor Market Size and Growth Rate Analysis (2020-2032)

11.2 Middle East & Africa Key Manufacturers Analysis

11.3 Middle East & Africa Sun Sensor Market Size by Type

11.3.1 Middle East & Africa Sun Sensor Sales by Type (2020-2032)

11.3.2 Middle East & Africa Sun Sensor Revenue by Type (2020-2032)

11.4 Middle East & Africa Sun Sensor Market Size by Application

11.4.1 Middle East & Africa Sun Sensor Sales by Application (2020-2032)

11.4.2 Middle East & Africa Sun Sensor Revenue by Application (2020-2032)

11.5 Middle East Sun Sensor Market Size by Country

11.5.1 Saudi Arabia

11.5.2 South Africa

12 COMPETITION BY MANUFACTURERS

12.1 Global Sun Sensor Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

12.1.1 Global Sun Sensor Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global Sun Sensor Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global Sun Sensor Average Sales Price by Manufacturers (2021-2025)

12.2 Sun Sensor Competitive Landscape Analysis and Market Dynamic

12.2.1 Sun Sensor Competitive Landscape Analysis

12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

12.2.3 Market Dynamic

13 KEY COMPANIES ANALYSIS

13.1 NewSpace Systems

13.1.1 NewSpace Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 NewSpace Systems Sun Sensor Product Portfolio

13.1.3 NewSpace Systems Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.2 Bradford Space

13.2.1 Bradford Space Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 Bradford Space Sun Sensor Product Portfolio

13.2.3 Bradford Space Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.3 Adcole Space

13.3.1 Adcole Space Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 Adcole Space Sun Sensor Product Portfolio

13.3.3 Adcole Space Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.4 GOMSpace

13.4.1 GOMSpace Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 GOMSpace Sun Sensor Product Portfolio

13.4.3 GOMSpace Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.5 Space Micro

13.5.1 Space Micro Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 Space Micro Sun Sensor Product Portfolio

13.5.3 Space Micro Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.6 CubeSpace

13.6.1 CubeSpace Basic Company Profile (Employees, Areas Service, Competitors

and Contact Information)

13.6.2 CubeSpace Sun Sensor Product Portfolio

13.6.3 CubeSpace Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.7 Antrix Corporation

13.7.1 Antrix Corporation Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.7.2 Antrix Corporation Sun Sensor Product Portfolio

13.7.3 Antrix Corporation Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.8 Hyperion Technologies

13.8.1 Hyperion Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.8.2 Hyperion Technologies Sun Sensor Product Portfolio

13.8.3 Hyperion Technologies Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.9 Sputnix

13.9.1 Sputnix Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.9.2 Sputnix Sun Sensor Product Portfolio

13.9.3 Sputnix Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.10 German Orbital Systems

13.10.1 German Orbital Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.10.2 German Orbital Systems Sun Sensor Product Portfolio

13.10.3 German Orbital Systems Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.11 Space Inventor

13.11.1 Space Inventor Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.11.2 Space Inventor Sun Sensor Product Portfolio

13.11.3 Space Inventor Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.12 Needronix

13.12.1 Needronix Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.12.2 Needronix Sun Sensor Product Portfolio

13.12.3 Needronix Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross

Margin and Market Share) (2021-2025)

13.13 Cosats

13.13.1 Cosats Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.13.2 Cosats Sun Sensor Product Portfolio

13.13.3 Cosats Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.14 Leonardo

13.14.1 Leonardo Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.14.2 Leonardo Sun Sensor Product Portfolio

13.14.3 Leonardo Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.15 LENS R&D

13.15.1 LENS R&D Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.15.2 LENS R&D Sun Sensor Product Portfolio

13.15.3 LENS R&D Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.16 Crystal Space

13.16.1 Crystal Space Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.16.2 Crystal Space Sun Sensor Product Portfolio

13.16.3 Crystal Space Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.17 Solar MEMS Technologies

13.17.1 Solar MEMS Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.17.2 Solar MEMS Technologies Sun Sensor Product Portfolio

13.17.3 Solar MEMS Technologies Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.18 Chang Guang Satellite

13.18.1 Chang Guang Satellite Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.18.2 Chang Guang Satellite Sun Sensor Product Portfolio

13.18.3 Chang Guang Satellite Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.19 Tensor Tech

13.19.1 Tensor Tech Basic Company Profile (Employees, Areas Service, Competitors

and Contact Information)

13.19.2 Tensor Tech Sun Sensor Product Portfolio

13.19.3 Tensor Tech Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.20 Optical Energy Technologies

13.20.1 Optical Energy Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.20.2 Optical Energy Technologies Sun Sensor Product Portfolio

13.20.3 Optical Energy Technologies Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.21 Jena-Optronik GmbH

13.21.1 Jena-Optronik GmbH Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.21.2 Jena-Optronik GmbH Sun Sensor Product Portfolio

13.21.3 Jena-Optronik GmbH Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.22 CASC – SAST Shanghai Academy of Spaceflight Tech

13.22.1 CASC – SAST Shanghai Academy of Spaceflight Tech Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.22.2 CASC – SAST Shanghai Academy of Spaceflight Tech Sun Sensor Product Portfolio

13.22.3 CASC – SAST Shanghai Academy of Spaceflight Tech Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.23 SpaceTech GmbH

13.23.1 SpaceTech GmbH Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.23.2 SpaceTech GmbH Sun Sensor Product Portfolio

13.23.3 SpaceTech GmbH Sun Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14 INDUSTRY CHAIN ANALYSIS

14.1 Sun Sensor Industry Chain Analysis

14.2 Sun Sensor Industry Raw Material and Suppliers Analysis

14.2.1 Sun Sensor Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 Sun Sensor Typical Downstream Customers

14.4 Sun Sensor Sales Channel Analysis

15 RESEARCH FINDINGS AND CONCLUSION

16 METHODOLOGY AND DATA SOURCE

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

List Of Tables

LIST OF TABLES

Table 1: Global Sun Sensor Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global Sun Sensor Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: Sun Sensor Industry Development Status

Table 4: Sun Sensor Industry Development Trends

Table 5: Global Sun Sensor Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global Sun Sensor Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global Sun Sensor Revenue Market Share by Region (2020-2025)

Table 8: Global Sun Sensor Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global Sun Sensor Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global Sun Sensor Sales by Region (2020-2025) & (K Unit)

Table 11: Global Sun Sensor Sales Market Share by Region (2020-2025)

Table 12: Global Sun Sensor Sales Forecast by Region (2026-2032) & (K Unit)

Table 13: Global Sun Sensor Sales Market Share Forecast by Region (2026-2032)

Table 14: Global Sun Sensor Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global Sun Sensor Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global Sun Sensor Sales Analysis by Type (2020-2025) & (K Unit)

Table 17: Global Sun Sensor Sales Analysis Forecast by Type (2026-2032) & (K Unit)

Table 18: Global Sun Sensor Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global Sun Sensor Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 20: Global Sun Sensor Sales Analysis by Application (2020-2025) & (K Unit)

Table 21: Global Sun Sensor Sales Analysis Forecast by Application (2026-2032) & (K Unit)

Table 22: Key Sun Sensor Players in North America

Table 23: North America Sun Sensor Sales by Type (2020-2025) & (K Unit)

Table 24: North America Sun Sensor Sales by Type (2026-2032) & (K Unit)

Table 25: North America Sun Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America Sun Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America Sun Sensor Sales by Application (2020-2025) & (K Unit)

Table 28: North America Sun Sensor Sales by Application (2026-2032) & (K Unit)

Table 29: North America Sun Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America Sun Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America Sun Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America Sun Sensor Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America Sun Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 34: North America Sun Sensor Sales Market Size by Country (2026-2032) & (K Unit)

Table 35: Key Sun Sensor Players in Europe

Table 36: Europe Sun Sensor Sales by Type (2020-2025) & (K Unit)

Table 37: Europe Sun Sensor Sales by Type (2026-2032) & (K Unit)

Table 38: Europe Sun Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe Sun Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe Sun Sensor Sales by Application (2020-2025) & (K Unit)

Table 41: Europe Sun Sensor Sales by Application (2026-2032) & (K Unit)

Table 42: Europe Sun Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe Sun Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe Sun Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe Sun Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe Sun Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 47: Europe Sun Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 48: Key Sun Sensor Players in China

Table 49: China Sun Sensor Sales by Type (2020-2025) & (K Unit)

Table 50: China Sun Sensor Sales by Type (2026-2032) & (K Unit)

Table 51: China Sun Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 52: China Sun Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 53: China Sun Sensor Sales by Application (2020-2025) & (K Unit)

Table 54: China Sun Sensor Sales by Application (2026-2032) & (K Unit)

Table 55: China Sun Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 56: China Sun Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 57: Key Sun Sensor Players in APAC (excl. China)

Table 58: APAC (excl. China) Sun Sensor Sales by Type (2020-2025) & (K Unit)

Table 59: APAC (excl. China) Sun Sensor Sales by Type (2026-2032) & (K Unit)

Table 60: APAC (excl. China) Sun Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) Sun Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) Sun Sensor Sales by Application (2020-2025) & (K Unit)

Table 63: APAC (excl. China) Sun Sensor Sales by Application (2026-2032) & (K Unit)

Table 64: APAC (excl. China) Sun Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) Sun Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 66:: APAC (excl. China) Sun Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) Sun Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) Sun Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 69: APAC (excl. China) Sun Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 70: Key Sun Sensor Players in Latin America

Table 71: Latin America Sun Sensor Sales by Type (2020-2025) & (K Unit)

Table 72: Latin America Sun Sensor Sales by Type (2026-2032) & (K Unit)

Table 73: Latin America Sun Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America Sun Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America Sun Sensor Sales by Application (2020-2025) & (K Unit)

Table 76: Latin America Sun Sensor Sales by Application (2026-2032) & (K Unit)

Table 77: Latin America Sun Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America Sun Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America Sun Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America Sun Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America Sun Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 82: Latin America Sun Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 83: Key Sun Sensor Players in Middle East & Africa

- Table 84: Middle East & Africa Sun Sensor Sales by Type (2020-2025) & (K Unit)
- Table 85: Middle East & Africa Sun Sensor Sales by Type (2026-2032) & (K Unit)
- Table 86: Middle East & Africa Sun Sensor Revenue by Type (2020-2025) & (US\$ Million)
- Table 87: Middle East & Africa Sun Sensor Revenue by Type (2026-2032) & (US\$ Million)
- Table 88: Middle East & Africa Sun Sensor Sales by Application (2020-2025) & (K Unit)
- Table 89: Middle East & Africa Sun Sensor Sales by Application (2026-2032) & (K Unit)
- Table 90: Middle East & Africa Sun Sensor Revenue by Application (2020-2025) & (US\$ Million)
- Table 91: Middle East & Africa Sun Sensor Revenue by Application (2026-2032) & (US\$ Million)
- Table 92: Middle East & Africa Sun Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)
- Table 93: Middle East & Africa Sun Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)
- Table 94: Middle East & Africa Sun Sensor Sales Market Size by Country (2020-2025) & (K Unit)
- Table 95: Middle East & Africa Sun Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)
- Table 96: Global Sun Sensor Market Sales by Key Manufacturers (2021-2025) & (K Unit)
- Table 97: Global Sun Sensor Sales Market Share by Key Manufacturers (2021-2025)
- Table 98: Global Sun Sensor Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)
- Table 99: Global Sun Sensor Revenue Market Share by Key Manufacturers (2021-2025)
- Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Unit)
- Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales
- Table 102: Market Mergers & Acquisitions, Expansion
- Table 103: NewSpace Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 104: NewSpace Systems Sun Sensor Product Portfolio
- Table 105: NewSpace Systems Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 106: Bradford Space Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 107: Bradford Space Sun Sensor Product Portfolio
- Table 108: Bradford Space Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price

(USD/Unit), Gross Margin and Market Share (2021-2025)

Table 109: Adcole Space Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: Adcole Space Sun Sensor Product Portfolio

Table 111: Adcole Space Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 112: GOMSpace Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 113: GOMSpace Sun Sensor Product Portfolio

Table 114: GOMSpace Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 115: Space Micro Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: Space Micro Sun Sensor Product Portfolio

Table 117: Space Micro Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 118: CubeSpace Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: CubeSpace Sun Sensor Product Portfolio

Table 120: CubeSpace Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 121: Antrix Corporation Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 122: Antrix Corporation Sun Sensor Product Portfolio

Table 123: Antrix Corporation Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 124: Hyperion Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: Hyperion Technologies Sun Sensor Product Portfolio

Table 126: Hyperion Technologies Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 127: Sputnix Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 128: Sputnix Sun Sensor Product Portfolio

Table 129: Sputnix Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 130: German Orbital Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 131: German Orbital Systems Sun Sensor Product Portfolio

Table 132: German Orbital Systems Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 133: Space Inventor Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 134: Space Inventor Sun Sensor Product Portfolio

Table 135: Space Inventor Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 136: Needronix Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 137: Needronix Sun Sensor Product Portfolio

Table 138: Needronix Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 139: Cosats Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 140: Cosats Sun Sensor Product Portfolio

Table 141: Cosats Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 142: Leonardo Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 143: Leonardo Sun Sensor Product Portfolio

Table 144: Leonardo Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 145: LENS R&D Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 146: LENS R&D Sun Sensor Product Portfolio

Table 147: LENS R&D Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 148: Crystal Space Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 149: Crystal Space Sun Sensor Product Portfolio

Table 150: Crystal Space Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 151: Solar MEMS Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 152: Solar MEMS Technologies Sun Sensor Product Portfolio

Table 153: Solar MEMS Technologies Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 154: Chang Guang Satellite Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

- Table 155: Chang Guang Satellite Sun Sensor Product Portfolio
- Table 156: Chang Guang Satellite Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 157: Tensor Tech Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 158: Tensor Tech Sun Sensor Product Portfolio
- Table 159: Tensor Tech Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 160: Optical Energy Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 161: Optical Energy Technologies Sun Sensor Product Portfolio
- Table 162: Optical Energy Technologies Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 163: Jena-Optronik GmbH Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 164: Jena-Optronik GmbH Sun Sensor Product Portfolio
- Table 165: Jena-Optronik GmbH Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 166: CASC – SAST Shanghai Academy of Spaceflight Tech Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 167: CASC – SAST Shanghai Academy of Spaceflight Tech Sun Sensor Product Portfolio
- Table 168: CASC – SAST Shanghai Academy of Spaceflight Tech Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 169: SpaceTech GmbH Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 170: SpaceTech GmbH Sun Sensor Product Portfolio
- Table 171: SpaceTech GmbH Sun Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 172: Upstream Key Raw Material Price List
- Table 173: Sun Sensor Raw Material Suppliers and Contact Information
- Table 174: Sun Sensor Typical Customer List
- Table 175: Sun Sensor Distributors List

List Of Figures

LIST OF FIGURES

- Figure 1: Sun Sensor Product Pictures
- Figure 2: Coarse Analog Sun Sensors Picture Scope
- Figure 3: Fine Analog Sun Sensors Picture Scope
- Figure 4: Digital Sun Sensors Picture Scope
- Figure 5: LEO Picture Scope
- Figure 6: GEO Picture Scope
- Figure 7: MEO Picture Scope
- Figure 8: Others Picture Scope
- Figure 9: Global Sun Sensor Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)
- Figure 10: Global Sun Sensor Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)
- Figure 11: Global Sun Sensor Market Sales and Growth Rate Analysis (2020-2032) & (K Unit)
- Figure 12: Global Sun Sensor Market Price Trend Analysis (2020-2032) & (USD/Unit)
- Figure 13: Global Sun Sensor Market Size by Region (2020-2032) & (US\$ Million)
- Figure 14: Global Sun Sensor Market Share Scenario by Region in Percentage: 2025 Versus 2032
- Figure 15: Global Sun Sensor Sales Price by Region (2020-2032) & (K Unit)
- Figure 16: North America Sun Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 17: North America Sun Sensor Revenue Market Share by Players in 2024
- Figure 18: North America Sun Sensor Sales Market Share by Type (2020-2032)
- Figure 19: North America Sun Sensor Revenue Market Share by Type (2020-2032)
- Figure 20: North America Sun Sensor Sales Market Share by Application (2020-2032)
- Figure 21: North America Sun Sensor Revenue Market Share by Application (2020-2032)
- Figure 22: US Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 23: Canada Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 24: Europe Sun Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 25: Europe Sun Sensor Revenue Market Share by Players in 2024
- Figure 26: Europe Sun Sensor Sales Market Share by Type (2020-2032)
- Figure 27: Europe Sun Sensor Revenue Market Share by Type (2020-2032)
- Figure 28: Europe Sun Sensor Sales Market Share by Application (2020-2032)
- Figure 29: Europe Sun Sensor Revenue Market Share by Application (2020-2032)

- Figure 30:Germany Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 31:France Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 32:United Kingdom Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 33:Italy Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 34:Spain Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 35:Benelux Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 36:China Sun Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 37:China Sun Sensor Revenue Market Share by Players in 2024
- Figure 38:China Sun Sensor Sales Market Share by Type (2020-2032)
- Figure 39:China Sun Sensor Revenue Market Share by Type (2020-2032)
- Figure 40:China Sun Sensor Sales Market Share by Application (2020-2032)
- Figure 41:China Sun Sensor Revenue Market Share by Application (2020-2032)
- Figure 42:APAC (excl. China) Sun Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 43:APAC (excl. China) Sun Sensor Revenue Market Share by Players in 2024
- Figure 44:APAC (excl. China) Sun Sensor Sales Market Share by Type (2020-2032)
- Figure 45:APAC (excl. China) Sun Sensor Revenue Market Share by Type (2020-2032)
- Figure 46:APAC (excl. China) Sun Sensor Sales Market Share by Application (2020-2032)
- Figure 47:APAC (excl. China) Sun Sensor Revenue Market Share by Application (2020-2032)
- Figure 48:Japan Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 49:South Korea Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 50:India Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 51:Australia Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 52:Southeast Asia Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 53:Latin America Sun Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 54:Latin America Sun Sensor Revenue Market Share by Players in 2024
- Figure 55:Latin America Sun Sensor Sales Market Share by Type (2020-2032)
- Figure 56:Latin America Sun Sensor Revenue Market Share by Type (2020-2032)
- Figure 57:Latin America Sun Sensor Sales Market Share by Application (2020-2032)
- Figure 58:Latin America Sun Sensor Revenue Market Share by Application (2020-2032)
- Figure 59:Mexico Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 60:Brazil Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 61:Middle East & Africa Sun Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 62:Middle East & Africa Sun Sensor Revenue Market Share by Players in 2024
- Figure 63:Middle East & Africa Sun Sensor Sales Market Share by Type (2020-2032)

- Figure 64: Middle East & Africa Sun Sensor Revenue Market Share by Type (2020-2032)
- Figure 65: Middle East & Africa Sun Sensor Sales Market Share by Application (2020-2032)
- Figure 66: Middle East & Africa Sun Sensor Revenue Market Share by Application (2020-2032)
- Figure 67: Saudi Arabia Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 68: South Africa Sun Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 69: Global Sun Sensor Sales Market Share by Key Manufacturers in 2024
- Figure 70: Global Sun Sensor Revenue Market Share by Key Manufacturers in 2024
- Figure 71: Global Sun Sensor Industry Competition Landscape
- Figure 72: Sun Sensor Industry Chain Analysis
- Figure 73: Bottom-Up and Top-Down Research Methods
- Figure 74: Key Interview Objectives
- Figure 75: Data Cross Validation

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