

Global Sun Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sun Sensor market size is expected to reach \$ 95.37 million by 2032, rising at a market growth of 11.1% CAGR during the forecast period (2026-2032).

A sun sensor is a navigational instrument used by spacecraft to detect the position of the sun. Sun sensors are used for attitude control, solar array pointing, gyro updating, and fail-safe recovery. There are various types of sun sensors, which differ in their technology and performance characteristics. Sun presence sensors provide a binary output, indicating when the sun is within the sensor's field of view. Analog and digital sun sensors, in contrast, indicate the angle of the sun by continuous and discrete signal outputs, respectively. This report studies the sun sensor in space market.

In 2025, global Sun Sensor production reached approximately 8,715 units, with an average global market price of around US\$ 4,980 per unit.

The upstream of the Sun Sensor supply chain primarily consists of providers of core optical components (high-purity quartz glass, precision lenses, UV/IR filters), semiconductor materials (silicon/III-V compound wafers for photodiodes/CMOS image sensors), electronic components (ADC chips, signal processing ICs, ceramic substrates), and specialized materials (radiation-hardened encapsulants, high-reliability metal contacts); these raw materials undergo precision manufacturing processes including optical coating, semiconductor lithography, and packaging assembly by component suppliers before being delivered to Sun Sensor manufacturers. The midstream involves sensor manufacturers integrating these components into finished products through optical system design, signal processing circuit development, and calibration testing, with value-add from custom software algorithms for attitude calculation. Downstream customers span multiple sectors, with aerospace being the largest segment (satellite manufacturers, space agencies, and small satellite constellation operators requiring radiation-hardened, high-precision sensors), followed by renewable energy (solar tracker manufacturers for PV/CSP systems), automotive

(vehicle climate control systems), and scientific research (meteorological monitoring and solar physics equipment).

The cost structure of Sun Sensors varies significantly by application and precision level, with core components typically accounting for 40-60% of total costs, led by semiconductor elements (CMOS image sensors/photodiodes at 20-30%) and optical components (precision lenses/filters at 15-25%); specialized materials for space-grade sensors (radiation-hardened encapsulants, ceramic substrates) add 10-15% to material costs compared to commercial-grade alternatives. Manufacturing and assembly contribute 15-25%, including precision alignment, calibration, and testing (environmental stress screening, radiation tolerance validation for aerospace models), while research and development expenses represent 10-20% for high-precision digital sensors with advanced algorithms. Additional costs include quality assurance (5-10%), supply chain logistics (3-8%), and overheads (5-10%).

This report studies the global Sun Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Sun Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Sun Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Sun Sensor total production and demand, 2021-2032, (Units)

Global Sun Sensor total production value, 2021-2032, (USD Million)

Global Sun Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Sun Sensor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Sun Sensor domestic production, consumption, key domestic manufacturers and share

Global Sun Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Sun Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Sun Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Sun Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NewSpace Systems, Bradford Space, Redwire, GOMSpace, Space Micro, CubeSpace, Antrix Corporation, AAC Clyde Space, Sputnix, Space

Inventor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Sun Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Sun Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sun Sensor Market, Segmentation by Type:

Coarse Analog Sun Sensors

Fine Analog Sun Sensors

Digital Sun Sensors

Global Sun Sensor Market, Segmentation by Precision Level:

Coarse Sun Sensors

Medium-Precision Sun Sensors

High-Precision Sun Sensors

Global Sun Sensor Market, Segmentation by Detection Technology:

Photodiode Array Sensors

CMOS/CCD Digital Sensors

MEMS-Based Sensors

Global Sun Sensor Market, Segmentation by Application:

LEO

GEO

MEO

Others

Companies Profiled:

NewSpace Systems

Bradford Space

Redwire

GOMSpace

Space Micro

CubeSpace

Antrix Corporation

AAC Clyde Space

Sputnix

Space Inventor

Needronix

Cosats

Leonardo

LENS R&D

Solar MEMS Technologies

Chang Guang Satellite

Tensor Tech

Optical Energy Technologies

CASC ? SAST Shanghai Academy of Spaceflight Tech

SpaceTech GmbH

Key Questions Answered:

1. How big is the global Sun Sensor market?
2. What is the demand of the global Sun Sensor market?
3. What is the year over year growth of the global Sun Sensor market?
4. What is the production and production value of the global Sun Sensor market?
5. Who are the key producers in the global Sun Sensor market?

6. What are the growth factors driving the market demand?

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