

Global Synthetic Vision System (SVS) Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Synthetic Vision System (SVS) market size was valued at US\$ 486 million in 2025 and is forecast to a readjusted size of US\$ 699 million by 2032 with a CAGR of 5.4% during review period.

Synthetic Vision Systems (SVS) are avionics systems that generate real-time, 3D virtual images of the external environment by integrating aircraft position, attitude, and heading data with digital databases covering terrain, airports, obstacles, and navigation. By displaying terrain, runways, and flight paths on Primary Flight Displays (PFDs) or Head-Up Displays (HUDs), these systems enhance pilot situational awareness and operational safety.

The upstream sector primarily comprises suppliers of avionics chips, displays, graphics processors, inertial navigation equipment, satellite navigation receivers, terrain and airport databases, and software development tools. The downstream sector encompasses manufacturers of commercial aircraft, business jets, military aircraft, helicopters, and general aviation aircraft, as well as airlines, military forces, maintenance and retrofit organizations, and flight training facilities.

Future global SVS development will focus on high-resolution 3D displays, real-time database updates, and multi-source information fusion. With the widespread adoption of next-generation digital cockpits, SVS will increasingly integrate data from Enhanced Vision Systems (EVS), weather radar, traffic alerts, and terrain warnings to provide comprehensive visual solutions. Artificial intelligence will be employed for obstacle recognition, flight path prediction, and risk alerts, thereby improving decision-support capabilities in adverse weather and low-visibility conditions. Meanwhile, open avionics

architectures, modular software, and lightweight display hardware will reduce system integration and retrofit costs, facilitating the expansion of SVS technology from large commercial aircraft and high-end business jets to helicopters, general aviation aircraft, and advanced air mobility (AAM) vehicles.

This report is a detailed and comprehensive analysis for global Synthetic Vision System (SVS) market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Synthetic Vision System (SVS) market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Synthetic Vision System (SVS) market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Synthetic Vision System (SVS) market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Synthetic Vision System (SVS) market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Synthetic Vision System (SVS)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Synthetic Vision System (SVS) market

based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Honeywell Aerospace Technologies, RTX, Garmin, Thales, Elbit Systems, Universal Avionics, Genesys Aerosystems(Moog?), Avidyne, L3Harris Technologies, Anhui Huamin Avionics System, etc.

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

Market segmentation

Synthetic Vision System (SVS) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Primary Flight Display-Based SVS

Head-Up Display-Based SVS

Helmet-Mounted Display-Based SVS

Multifunction Display-Based SVS

Multi-Display Integrated SVS

Market segment by Sensor Technology

Visible-Light Camera-Based SVS

Infrared Sensor-Based SVS

Millimeter-Wave Radar-Based SVS

LiDAR-Based SVS

Multispectral Sensor-Fusion SVS

Market segment by System Architecture

Standalone SVS

Federated SVS

Integrated Modular Avionics SVS

Market segment by Application

Commercial Aircraft

Business Jets

Military Aircraft

Helicopters

Others

Market segment by players, this report covers

Honeywell Aerospace Technologies

RTX

Garmin

Thales

Elbit Systems

Universal Avionics

Genesys Aerosystems(Moog?)

Avidyne

L3Harris Technologies

Anhui Huamin Avionics System

Sichuan Hermes Aviation Technology

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Synthetic Vision System (SVS) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Synthetic Vision System (SVS), with revenue, gross margin, and global market share of Synthetic Vision System (SVS) from 2021 to 2026.

Chapter 3, the Synthetic Vision System (SVS) competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Synthetic Vision System (SVS) market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Synthetic Vision System (SVS).

Chapter 13, to describe Synthetic Vision System (SVS) research findings and conclusion.

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