

Global Synthetic Vision System (SVS) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GBC7C02C0A75EN.html>

Date: August 2026

Pages: 121

Price: US\$ 4,480.00 (Single User License)

ID: GBC7C02C0A75EN

Abstracts

The global Synthetic Vision System (SVS) market size is expected to reach \$ 699 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

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 studies the global Synthetic Vision System (SVS) demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Synthetic Vision System (SVS), 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 Synthetic Vision System (SVS) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Synthetic Vision System (SVS) total market, 2021-2032, (USD Million)

Global Synthetic Vision System (SVS) total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Synthetic Vision System (SVS) total market, key domestic companies, and share, (USD Million)

Global Synthetic Vision System (SVS) revenue by player, revenue and market share 2021-2026, (USD Million)

Global Synthetic Vision System (SVS) total market by Type, CAGR, 2021-2032, (USD Million)

Global Synthetic Vision System (SVS) total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Synthetic Vision System (SVS) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Synthetic Vision System (SVS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Synthetic Vision System (SVS) Market, Segmentation 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

Global Synthetic Vision System (SVS) Market, Segmentation by Sensor Technology:

Visible-Light Camera-Based SVS

Infrared Sensor-Based SVS

Millimeter-Wave Radar-Based SVS

LiDAR-Based SVS

Multispectral Sensor-Fusion SVS

Global Synthetic Vision System (SVS) Market, Segmentation by System Architecture:

Standalone SVS

Federated SVS

Integrated Modular Avionics SVS

Global Synthetic Vision System (SVS) Market, Segmentation by Application:

Commercial Aircraft

Business Jets

Military Aircraft

Helicopters

Others

Companies Profiled:

Honeywell Aerospace Technologies

RTX

Garmin

Thales

Elbit Systems

Universal Avionics

Genesys Aerosystems(Moog?)

Avidyne

L3Harris Technologies

Anhui Huamin Avionics System

Sichuan Hermes Aviation Technology

Key Questions Answered

1. How big is the global Synthetic Vision System (SVS) market?
2. What is the demand of the global Synthetic Vision System (SVS) market?
3. What is the year over year growth of the global Synthetic Vision System (SVS) market?
4. What is the total value of the global Synthetic Vision System (SVS) market?
5. Who are the Major Players in the global Synthetic Vision System (SVS) market?
6. What are the growth factors driving the market demand?

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