

Aircraft Synthetic Vision System Market Report by Product Type (Synthetic Vision, Enhanced Vision, and Others), Operation (Manned, Unmanned), Display System (Primary Flight Display, Navigation Display, Heads-up and Helmet Mounted Display, and Others), Application (Civil Aviation, Military Aviation, General Aviation), and Region 2024-2032

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Abstracts

The global aircraft synthetic vision system market size reached US\$ 478.1 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 672.9 Million by 2032, exhibiting a growth rate (CAGR) of 3.8% during 2024-2032.

An aircraft Synthetic Vision System (SVS) is a computer-facilitated reality-based mechanism that uses 3D technology to guide pilots while flying. It presents a computer-generated view of the external environment with a database of relevant information about the terrain, flight plan information and runways. It enhances the situational awareness of the pilot in low-visibility conditions through moving maps, artificial vision and route planning hardware and software. It also assists in reducing the chances of accidents caused by loss of control, runway incursion and incidences of Controlled Flight into Terrain (CFIT).

The increasing occurrence of CFIT incidences is the key factor driving the growth of the market. The CFIT is an event in which the aircraft, under pilot's control, accidentally flows into water, mountain, ground or any other obstacle. By using aircraft SVS, the pilot becomes aware of the potential dangers, which enables timely alterations of the route. Furthermore, constant safety improvements in commercial and other types of aviation aircraft are significantly increasing the product demand. With the increasing air traffic,

there is a growing need for highly efficient flight safety mechanisms. Additionally, the introduction of Unmanned Aerial Vehicles (UAV) has enhanced the utilization of aircraft SVS as they require accurate projections for correct navigation even under challenging environmental conditions. Moreover, factors such as increasing construction of airports in emerging nations along with the implementation of stringent government policies regarding passenger safety are further expected to catalyze the market growth in the coming years.

IMARC Group's latest report provides a deep insight into the global aircraft synthetic vision system market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the aircraft synthetic vision system market in any manner.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global aircraft synthetic vision system market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on product type, operation, display system and application.

Breakup by Product Type:

- Synthetic Vision
 - Longwave IR
 - Shortwave IR
 - Millimeter Wave RADAR
- Enhanced Vision
 - IR
 - Millimeter Wave RADAR
- Combined EVS
- Others

Breakup by Operation:

- Manned
- Unmanned

Breakup by Display System:

- Primary Flight Display
- Navigation Display
- Heads-up and Helmet Mounted Display
- Others

Breakup by Application:

- Civil Aviation
- Military Aviation
- General Aviation

Breakup by Region:

- North America
- Europe
- Asia Pacific
- Middle East and Africa
- Latin America

Competitive Landscape:

The report has also analyzed the competitive landscape of the market with some of the key players being Cobham, Garmin, Honeywell International, Collins Aerospace (United Technologies Corporation), Elbit Systems Ltd, Thales Group, Safran, Mercury Systems, Harris Corporation, Universal Avionics Systems, Aspen Avionics, Avidyne Corporation, ENSCO, etc.

Key Questions Answered in This Report:

How has the global aircraft synthetic vision system market performed so far and how will it perform in the coming years?

What are the key regional markets in the global aircraft synthetic vision system industry?

What has been the impact of COVID-19 on the global aircraft synthetic vision system industry?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the operation?

What is the breakup of the market based on the display system?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the global aircraft synthetic vision system industry?

What are the key driving factors and challenges in the global aircraft synthetic vision system industry?

What is the structure of the global aircraft synthetic vision system industry and who are the key players?

What is the degree of competition in the global aircraft synthetic vision system industry?

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