

Global Enhanced Vision System Market Size study & Forecast, by Technology, Application, End Use, and Component and Regional Forecasts 2025-2035

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Abstracts

Global Enhanced Vision System Market is valued approximately at USD 3.51 billion in 2024 and is anticipated to grow with a remarkable CAGR of 6.62% over the forecast period 2025-2035. Enhanced Vision Systems (EVS) encompass advanced sensor technologies that empower pilots, drivers, and operators across aviation, automotive, and maritime industries to transcend visibility barriers posed by fog, darkness, snow, and other adverse conditions. Leveraging a blend of infrared imaging, low-light cameras, and millimeter-wave radar, these systems enable real-time visual augmentation, making them indispensable for safe navigation and operations in safety-critical scenarios. The surge in demand for situational awareness systems, driven by a growing focus on safety and regulatory pressures, continues to steer investments into EVS innovation across both commercial and military domains.

As the world pivots toward fully autonomous and semi-autonomous systems, Enhanced Vision Systems are no longer auxiliary add-ons but strategic assets embedded in platform architecture. The rapid advancement of sensor fusion, AI-powered image processing, and lightweight display integration has amplified their effectiveness across multiple platforms—from commercial aircraft improving CAT III landing capabilities to advanced driver-assistance systems (ADAS) in premium vehicles. In the maritime sector, EVS provides vital aid during night navigation or port docking in poor visibility. Nonetheless, the relatively high procurement and integration cost of these systems and lack of standardization across platforms can hinder widespread adoption, especially in developing economies.

Regionally, North America leads the market owing to its robust defense budget allocations, early technology adoption in aerospace, and well-established automotive

OEMs incorporating advanced safety technologies. The United States continues to be a trailblazer in EVS deployment, particularly across military aviation and luxury automotive sectors. Europe follows closely, fueled by strong investments in automotive R&D, smart mobility policies, and increasing passenger safety norms. Meanwhile, the Asia Pacific region is forecasted to emerge as the fastest-growing market, propelled by an expanding commercial aviation sector, rising military aircraft procurements, and the surge in high-end automotive sales in China, Japan, and India. Government-backed innovation ecosystems and smart infrastructure projects further catalyze regional growth potential.

Major market player included in this report are:

Elbit Systems Ltd.

Collins Aerospace

Thales Group

Honeywell International Inc.

Rockwell Collins

Garmin Ltd.

L3Harris Technologies, Inc.

BAE Systems

FLIR Systems Inc.

Saab AB

Embraer S.A.

Astronics Corporation

MaxViz Inc.

Gulfstream Aerospace Corporation

Bombardier Inc.

Global Enhanced Vision System Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Technology:

Infrared Sensors

Low-Light Cameras

Visible Light Cameras

Lidar Systems

By Application:

Aviation

Automotive

Maritime

By End Use:

Commercial

Military

Civil

By Component:

Hardware

Software

Display Systems

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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