

Global Computer Vision in Aerospace and Defense 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 Computer Vision in Aerospace and Defense market size was valued at US\$ 1477 million in 2025 and is forecast to a readjusted size of US\$ 2233 million by 2032 with a CAGR of 6.0% during review period.

Computer Vision in Aerospace and Defense refers to an intelligent technology system based on image sensors and artificial intelligence algorithms, enabling target detection, identification, tracking, and environmental perception. Its core applications include: in the aerospace field, for satellite remote sensing image interpretation, autonomous landing navigation of aircraft, space debris identification, and collaborative perception of UAV swarms; in the defense field, supporting precision guidance, battlefield situational awareness, infrared night vision reconnaissance, and environmental understanding of unmanned combat platforms. This technology deeply integrates multimodal perception and edge computing, emphasizing robustness, low latency, and anti-jamming capabilities in denied environments, and is a key enabling technology for improving equipment autonomy and battlefield information superiority.

Research and development costs in the field of Computer Vision in Aerospace and Defense are extremely high, primarily focused on high-end optoelectronic sensors, dedicated AI chips, complex algorithm development, and rigorous environmental adaptability testing. Due to high technological barriers and stringent military qualification certifications, core suppliers generally maintain gross profit margins of 40%-60%, while system integrators see slightly lower margins.

The market exhibits an oligopolistic structure, with European and American defense

giants dominating the high-end market. The upstream of the industry chain includes optoelectronic sensors, FPGAs/GPUs, and specialized optical components; downstream customers are mainly defense ministries, space agencies, and prime contractors for military industries.

North America holds a dominant position due to its defense budget and Silicon Valley's AI technology advantages; Europe possesses strong capabilities in infrared detection and optoelectronic system integration; the Asia-Pacific region (China, Israel, and South Korea) is accelerating its self-sufficiency process, rapidly catching up in the fields of UAV vision and precision guidance.

This report is a detailed and comprehensive analysis for global Computer Vision in Aerospace and Defense 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 Computer Vision in Aerospace and Defense market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Computer Vision in Aerospace and Defense market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Computer Vision in Aerospace and Defense market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Computer Vision in Aerospace and Defense 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 Computer Vision in Aerospace and Defense

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 Computer Vision in Aerospace and Defense 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 Airbus, IAI, Lockheed Martin, Raytheon, Boeing, BAE, Northrop Grumman, FARO Technologies, Neptec, NVision, etc.

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

Market segmentation

Computer Vision in Aerospace and Defense 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

Hardware

Software

API Platforms

Market segment by Technology

Visible Light Imaging

Infrared Thermal Imaging

Synthetic Aperture Radar

Multispectral/Hyperspectral Imaging

LiDAR

Market segment by Deployment

Space-Based Platform Vision

Air-Based Platform Vision

Land-Based Platform Vision

Sea-Based Platform Vision

Individual/Portable Vision

Market segment by Application

Public Companies

Private Companies

Market segment by players, this report covers

Airbus

IAI

Lockheed Martin

Raytheon

Boeing

BAE

Northrop Grumman

FARO Technologies

Neptec

NVision

Elloe AI

Teledyne FLIR

Thales Group

Safran

Leidos

China Aerospace Science and Technology Corporation

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 Computer Vision in Aerospace and Defense product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Computer Vision in Aerospace and Defense, with revenue, gross margin, and global market share of Computer Vision in Aerospace and Defense from 2021 to 2026.

Chapter 3, the Computer Vision in Aerospace and Defense 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 Computer Vision in Aerospace and Defense 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 Computer Vision in Aerospace and Defense.

Chapter 13, to describe Computer Vision in Aerospace and Defense research findings and conclusion.

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