

Global Computer Vision in Aerospace and Defense Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Computer Vision in Aerospace and Defense market size is expected to reach \$ 2233 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

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 studies the global Computer Vision in Aerospace and Defense demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Computer Vision in Aerospace and Defense, 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 Computer Vision in Aerospace and Defense that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Computer Vision in Aerospace and Defense total market, 2021-2032, (USD Million)

Global Computer Vision in Aerospace and Defense total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Computer Vision in Aerospace and Defense total market, key domestic companies, and share, (USD Million)

Global Computer Vision in Aerospace and Defense revenue by player, revenue and market share 2021-2026, (USD Million)

Global Computer Vision in Aerospace and Defense total market by Type, CAGR, 2021-2032, (USD Million)

Global Computer Vision in Aerospace and Defense total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Computer Vision in Aerospace and Defense 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 Computer Vision in Aerospace and Defense Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Computer Vision in Aerospace and Defense Market, Segmentation by Type:

Hardware

Software

API Platforms

Global Computer Vision in Aerospace and Defense Market, Segmentation by Technology:

Visible Light Imaging

Infrared Thermal Imaging

Synthetic Aperture Radar

Multispectral/Hyperspectral Imaging

LiDAR

Global Computer Vision in Aerospace and Defense Market, Segmentation by Deployment:

Space-Based Platform Vision

Air-Based Platform Vision

Land-Based Platform Vision

Sea-Based Platform Vision

Individual/Portable Vision

Global Computer Vision in Aerospace and Defense Market, Segmentation by Application:

Public Companies

Private Companies

Companies Profiled:

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

Key Questions Answered

1. How big is the global Computer Vision in Aerospace and Defense market?
2. What is the demand of the global Computer Vision in Aerospace and Defense market?

3. What is the year over year growth of the global Computer Vision in Aerospace and Defense market?
4. What is the total value of the global Computer Vision in Aerospace and Defense market?
5. Who are the Major Players in the global Computer Vision in Aerospace and Defense market?
6. What are the growth factors driving the market demand?

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