

Global Fixed-wing UAV Pod Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G09CF7A01DB1EN.html>

Date: June 2026

Pages: 197

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

ID: G09CF7A01DB1EN

Abstracts

The global Fixed-wing UAV Pod market size is expected to reach \$ 3088 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

A fixed-wing UAV EO/IR payload pod is an airborne mission payload designed for fixed-wing, hybrid VTOL fixed-wing, tactical UAS and selected MALE UAV platforms. It typically integrates a stabilized gimbal or turret, high-definition electro-optical cameras, infrared thermal imagers, optional short-wave or mid-wave infrared channels, laser rangefinding or designation modules, inertial and positioning units, onboard video processing, target tracking algorithms, and platform control interfaces within a compact podded or turreted form factor. By compensating for aircraft attitude changes through two-axis, three-axis or four-axis stabilization, these systems provide day-and-night observation, intelligence, surveillance and reconnaissance, target location, border and maritime patrol, wildfire monitoring, search and rescue, infrastructure inspection and tactical situational awareness. The core performance parameters include size and weight, sensor mix, infrared band, optical zoom, stabilization accuracy, geolocation accuracy, laser capability, target tracking, video/data interface, environmental ruggedness and compatibility with fixed-wing or VTOL UAV platforms.

Based on our research, the fixed-wing UAV EO/IR payload pod market should be understood as a mission-sensor systems market rather than a simple camera or gimbal market. A complete pod integrates electro-optical imaging, infrared sensing, optional laser rangefinding or designation, inertial stabilization, onboard processing, geolocation and platform interfaces into a compact airborne payload. Compared with consumer-grade camera gimbals, fixed-wing UAV payload pods must support longer endurance, higher vibration tolerance, better aerodynamic integration, lower SWaP, reliable target tracking and mission-grade video/data interfaces. Compared with fighter aircraft

targeting pods, UAV payload pods are more sensitive to weight, power, cost and rapid integration. Therefore, this report adopts a narrow definition focused on EO/IR payload pods for fixed-wing, VTOL fixed-wing and tactical UAS platforms, rather than combining UAV airframes, radar pods, communication relay pods and mapping cameras into one broad market.

Demand growth is driven by four structural sources: tactical ISR and target location, border and maritime security, wildfire and emergency response, and industrial inspection of large linear assets such as pipelines, power grids and railways. The operational lessons from recent conflicts have increased the perceived value of tactical UAS equipped with EO/IR payloads, pushing the market toward faster iteration, higher production capacity and lower-cost sensor packages. At the same time, public-safety and industrial users are adopting VTOL fixed-wing platforms for longer range and endurance, creating additional demand for stabilized EO/IR pods with laser ranging, geotagging and automated target tracking. This demand structure supports a growth-oriented market even though the core stabilization and infrared technologies are already mature.

From a product roadmap perspective, high-end systems will continue to evolve toward longer standoff range, higher resolution, multispectral fusion, precision geolocation and laser designation, while small and mid-sized UAV payloads will emphasize lightweight design, low power consumption, embedded AI, open interfaces and lower total mission cost. Fixed-wing and VTOL fixed-wing platforms create specific design requirements around drag, center of gravity, vibration and payload bay integration, which favor aerodynamic spherical pods, nose-mounted payloads, standardized interfaces and edge computing modules. The main substitution risks come from UAV airframe OEMs developing in-house payloads and from SAR, wide-area imaging or electronic intelligence payloads replacing EO/IR in selected missions. However, for most ISR, patrol, search-and-rescue and target-confirmation missions, EO/IR payload pods remain the baseline sensor payload for fixed-wing UAVs.

This report studies the global Fixed-wing UAV Pod production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fixed-wing UAV Pod 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 Fixed-wing UAV Pod that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fixed-wing UAV Pod total production and demand, 2021-2032, (Units)

Global Fixed-wing UAV Pod total production value, 2021-2032, (USD Million)

Global Fixed-wing UAV Pod production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Fixed-wing UAV Pod consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Fixed-wing UAV Pod domestic production, consumption, key domestic manufacturers and share

Global Fixed-wing UAV Pod production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Fixed-wing UAV Pod production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Fixed-wing UAV Pod production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Fixed-wing UAV Pod market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include RTX Corporation, Safran SA, L3Harris Technologies, Inc., Leonardo S.p.A., CACI International Inc., Elbit Systems Ltd., Teledyne Technologies Incorporated, Israel Aerospace Industries Ltd., Rafael Advanced Defense Systems Ltd., ASELSAN A.?, 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 Fixed-wing UAV Pod market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, 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 Fixed-wing UAV Pod Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fixed-wing UAV Pod Market, Segmentation by Type:

EO-only Payload Pod

EO/IR Dual-sensor Payload Pod

EO/IR/LRF Payload Pod

EO/IR/Laser Designator Payload Pod

Multispectral EO/IR Payload Pod

Other Payload Pod

Global Fixed-wing UAV Pod Market, Segmentation by UAV Platform Type:

Small Fixed-wing UAV

VTOL Fixed-wing UAV

Tactical Fixed-wing UAS

MALE UAV

Loitering Munition / Attritable UAV

Other UAV Platforms

Global Fixed-wing UAV Pod Market, Segmentation by Performance Tier:

High-end Defense-grade Payload Pod

Mid-range Tactical Payload Pod

Industrial-grade EO/IR Payload Pod

Low-cost Commercial Payload Pod

Customized Mission Payload Pod

Global Fixed-wing UAV Pod Market, Segmentation by Application:

Military ISR

Public Safety and Law Enforcement

Search and Rescue

Firefighting and Disaster Monitoring

Industrial Inspection

Environmental and Wildlife Monitoring

Other

Companies Profiled:

RTX Corporation

Safran SA

L3Harris Technologies, Inc.

Leonardo S.p.A.

CACI International Inc.

Elbit Systems Ltd.

Teledyne Technologies Incorporated

Israel Aerospace Industries Ltd.

Rafael Advanced Defense Systems Ltd.

ASELSAN A.?.

HENSOLDT AG

Hanwha Systems Co., Ltd.

Redwire Corporation

NextVision Stabilized Systems Ltd.

Trillium Engineering LLC

Hood Technology Corporation

Trakka Systems

Tonbo Imaging

UAVOS Inc.

Gremsy Co., Ltd.

JOUAV Automation Tech Co., Ltd.

Chengdu HONPHO Technology Co., Ltd.

PVLabs

Merio

EDGE Group PJSC

Ukrspesystems

Epsilon Aerovision

Asisguard

Nanomotion Ltd.

Shenzhen Viewpro Technology Co., Ltd.

TOPOTEK

SIYI Technology

Dasion Payload

Yangda Security

Key Questions Answered:

1. How big is the global Fixed-wing UAV Pod market?
2. What is the demand of the global Fixed-wing UAV Pod market?
3. What is the year over year growth of the global Fixed-wing UAV Pod market?
4. What is the production and production value of the global Fixed-wing UAV Pod market?
5. Who are the key producers in the global Fixed-wing UAV Pod market?

6. What are the growth factors driving the market demand?

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