

Global Airborne Optronics Market Size study, by System (Reconnaissance System, Targeting System, Search and Track System, Surveillance System, Warning/Detection System, Countermeasure System, Navigation and Guidance System, Special Mission System), by Technology (Multispectral, Hyperspectral), by Application (Commercial, Military, Space), by Aircraft Type (Fixed Wing, Rotary Wing, Urban Air Mobility, Unmanned Aerial Vehicles), by End Use (OEM, Aftermarket), and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G9276A537677EN.html>

Date: August 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G9276A537677EN

Abstracts

The Global Airborne Optronics Market was valued at approximately USD 1.69 billion in 2023 and is projected to experience substantial growth, at compound annual growth rate (CAGR) of 12.4% during the forecast period of 2024 to 2032. Airborne optronics integrates optical and electronic systems to enhance airborne surveillance, navigation, and targeting capabilities. Essential in military helicopters, aircraft, satellites, and drones, it provides advanced functionalities such as surveillance, reconnaissance, target acquisition, aerial imaging, and navigation. Utilizing a combination of electronics and optics, these systems leverage light, imaging sensors, and other electro-optical devices for various applications. Airborne optronics plays a crucial role in improving situational awareness, intelligence gathering, and operational effectiveness in both military and commercial applications, making it indispensable in modern aerospace technology.

The Airborne Optronics Market has witnessed substantial growth due to increasing demand for advanced situational awareness, intelligence, surveillance, and reconnaissance (ISR) capabilities. This technology includes a wide range of electro-optical and infrared (EO/IR) systems, laser systems, and associated technologies integrated into various aerospace platforms, including aircraft, UAVs, and satellites. The need for upgrades and maintenance services for existing optronics systems has driven notable demand for aftermarket solutions. However, the high costs associated with the development and complex installation and maintenance of this equipment pose significant barriers to market growth.

The key regions considered for the Global Airborne Optronics Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominates the Airborne Optronics Market, driven by steady defense spending and the introduction of new platforms across the U.S. and Canada. The region hosts major players in the defense and aerospace industries, fostering innovation and competitiveness. Companies collaborate with the U.S. Air Force to integrate modern optronics in UAVs, further boosting market growth. For instance, the MS-177 sensor enhances the Global Hawk's ISR mission capabilities, addressing battlefield challenges and achieving superiority.

Major market players included in this report are:

Northrop Grumman Corporation
Thales SA
Safran SA
Teledyne FLIR LLC
Elbit Systems Ltd.
Leonardo S.P.A.
Lockheed Martin Corporation
Hensoldt AG
Collins Aerospace
L3Harris Technologies, Inc.
Rafael Advanced Defense Systems Ltd.
Israel Aerospace Industries (IAI)
HGH
Sensor solutions provider Hensoldt AG
Brazilian company AEROMOT

The detailed segments and sub-segment of the market are explained below:

By System:

Reconnaissance System
Targeting System
Search and Track System
Surveillance System
Warning/Detection System
Countermeasure System
Navigation and Guidance System
Special Mission System

By Technology:

Multispectral
Hyperspectral

By Application:

Commercial
Military
Space

By Aircraft Type:

Fixed Wing
Rotary Wing
Urban Air Mobility
Unmanned Aerial Vehicles

By End Use:

OEM
Aftermarket

By Region:

North America
U.S.
Canada

Europe
UK
Germany
France
Spain

Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America
Brazil
Mexico
Rest of Latin America

Middle East & Africa
Saudi Arabia
South Africa
RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

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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