

Global Multispectral Airborne Optoelectronics Market Growth 2025-2031

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Abstracts

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The global Multispectral Airborne Optoelectronics market size is predicted to grow from US\$ 224 million in 2025 to US\$ 271 million in 2031; it is expected to grow at a CAGR of 3.2% from 2025 to 2031.

Airborne optoelectronic systems are developing rapidly and have a high degree of technical integration, and are widely used in national defense, air traffic, UAVs and other fields. The principle of scheduled action can be divided into information perception, information transmission and energy transmission. Multispectral imaging technology refers to dozens of frequency bands ranging from visible light to infrared, with spatial resolution ranging from several centimeters to several meters. It has the functions of target search, reconnaissance and surveillance, tracking and guidance, and is suitable for UAVs, helicopters, fixed-wing aircraft and other platforms.

Multispectral Airborne Optoelectronics is an optoelectronic sensor system used on aerial or UAV platforms that is capable of capturing and recording electromagnetic radiation in multiple bands. These bands usually include visible light, infrared, and near-infrared, and each band represents a different spectral range. Multispectral sensors are equipped with multiple optical filters that selectively capture specific bands of electromagnetic radiation. The detector in the sensor is used to receive and convert the radiation signal captured by the optical sensor into an electrical signal. The captured electrical signals will be processed and analyzed by the data processing unit to obtain multispectral image data about the observation area.

LP Information, Inc. (LPI) ' newest research report, the "Multispectral Airborne

“Optoelectronics Industry Forecast” looks at past sales and reviews total world Multispectral Airborne Optoelectronics sales in 2024, providing a comprehensive analysis by region and market sector of projected Multispectral Airborne Optoelectronics sales for 2025 through 2031. With Multispectral Airborne Optoelectronics sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Multispectral Airborne Optoelectronics industry.

This Insight Report provides a comprehensive analysis of the global Multispectral Airborne Optoelectronics landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Multispectral Airborne Optoelectronics portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Multispectral Airborne Optoelectronics market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Multispectral Airborne Optoelectronics and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Multispectral Airborne Optoelectronics.

This report presents a comprehensive overview, market shares, and growth opportunities of Multispectral Airborne Optoelectronics market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Military Use

Commercial Use

Segmentation by Application:

Fixed Wing

Rotary Wing

Urban Air Mobility

Unmanned Aerial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Teledyne FLIR

Hensoldt

AVIC Optoelectronics Institute

Lockheed Martin

Thales

Rafael Advanced Defense Systems

Northrop Grumman

BAE Systems

Leonardo

Safran

Israel Aerospace Industries

Aselsan

Elcarim Optronic

Guide Infrared

Key Questions Addressed in this Report

What is the 10-year outlook for the global Multispectral Airborne Optoelectronics market?

What factors are driving Multispectral Airborne Optoelectronics market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Multispectral Airborne Optoelectronics market opportunities vary by end market size?

How does Multispectral Airborne Optoelectronics break out by Type, by Application?

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