

EO/IR Gimbal Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global EO/IR gimbal market size reached US\$ 739.4 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,346.0 Million by 2028, exhibiting a growth rate (CAGR) of 10% during 2023-2028.

Electro-optical/infrared (EO/IR) gimbal is a small device equipped with a dual sensor for better pointing accuracy. It includes various features, such as all-around rotation, gyro-stabilization, compact structure, wireless digital transmission, high definition (HD) and IR dual sensor for day or night surveillance, high adaptability, great cost-efficiency, and low power dissipation. It is ideal for unmanned aerial platforms, including multirotor, fixed-wing, and hybrid UAVs, balloons, and aerostats. At present, it finds extensive applications in unmanned aircraft systems (UAS), defense, marine, and law enforcement.

EO/IR Gimbal Market Trends:

The rising need for surveillance and the escalating demand for intelligent sensors and sighting devices represent one of the key factors positively influencing the market. For instance, EO/IR gimbal is employed in intelligence, surveillance, and reconnaissance (ISR) applications by the military in search and rescue and humanitarian disaster response. This, in confluence with increasing investments in airborne homeland security, combat, patrol, and defense systems, is encouraging key market players to introduce more advanced product variants. Moreover, the growing investments in research and development (R&D) activities in next-generation logistics are providing a thrust to the market growth. The development of nanostructure-based material

technology to benefit next-generation EO/IR sensors is also supporting the market growth. These materials exhibit novel optoelectrical properties that enhance device performance for low-cost detection and imaging applications. In line with this, the integration of advanced technologies, such as artificial intelligence (AI) and machine learning (ML), in the manufacturing industry is creating a positive market outlook. Furthermore, the development of innovative longwave infrared (LWIR) and EO laser guidance systems are acting as other growth-inducing factors. Additionally, the easy availability of EO/IR gimbal across online and offline distribution channels, coupled with doorstep delivery and secured payment gateways, is propelling the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global EO/IR gimbal market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type and end user.

Breakup by Product Type:

2-Axis EO/IR Gimbals

3-Axis EO/IR Gimbals

Breakup by End User:

UAV/UAS

Defense

Marine

Law Enforcement

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AeroVironment Inc., Ascent Vision Technologies (CACI International Inc), CONTROP Precision Technologies Ltd. (Rafael Advanced Defense Systems Ltd.), Harris Aerial, Innovative Intuitive Technology Inc., L3Harris Technologies Inc., Leonardo DRS (Leonardo S.p.A.), Lockheed Martin Corporation, Merio - UAV Payload Systems, Teledyne FLIR LLC (Teledyne Technologies Incorporated) and Uksrpecsystems.

Key Questions Answered in This Report:

How has the global EO/IR gimbal market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global EO/IR gimbal market?

What are the key regional markets?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global EO/IR gimbal market and who are the key players?

What is the degree of competition in the industry?

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