

Global Autonomous Navigation Market Size study & Forecast, by System (Sensing System, Processing System, Software System), by Platform (Airborne, Land, Marine, Space, Weapons), by Application (Commercial, Military, Government) and Regional Analysis, 2023-2030

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Abstracts

Global Autonomous Navigation Market is valued approximately USD 3.83 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 17.1% over the forecast period 2023-2030. An autonomous navigation system is a combination of systems that enables vehicles such as drones, robots, cars, boats, and more to independently plan their routes and execute those plans without the need for human intervention. This technology relies on advanced technologies and complex algorithms to analyse the surrounding environment and make informed decisions accordingly. The growth of the autonomous navigation market is fuelled by several factors, including the growing demand for sense and avoid systems in autonomous technology, the increasing adoption of autonomous robots in commercial and military applications, and the rising need for real-time data in military operations.

Moreover, the rising adoption of unmanned vehicles in military and defence sectors is anticipated to create the lucrative demand for the autonomous navigation systems which is widely used in unmanned vehicles and support the market growth. For instance, Elbit Systems Ltd. secured a USD 300 million contract in March 2021. The contract is for the supply of Hermes 900 unmanned aircraft systems to an Asian country. Additionally, in 2020, Elbit Systems introduced the Bluefin-12 autonomous unmanned underwater vehicle with advanced autonomy technology at Defense and Security Equipment International (DSEI). This vehicle utilized embedded intelligence to

successfully carry out enduring and high-stakes missions. Additionally, increasing demand for enhanced surveillance, as well as supportive government policies are expected to create ample opportunities for the key players operating in the market. However, privacy & security concerns related to data are stifling market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Autonomous Navigation Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to presence of key industry players, increase in military spendings, growing demand in commercial sectors, and cohesive government initiatives in the region.. Asia Pacific is expected to grow significantly during the forecast period, owing to increasing investments in the automotive and robotics sectors, with initiatives like Digital India by the Indian government further supporting this trend. Companies based in India, China, and Japan are actively working to enhance their capabilities in autonomous cars and unmanned aerial vehicle (UAV) technologies.

Major market player included in this report are:

Honeywell International

Northrop Grumman Corporation

Moog Inc.

Rh Marine

Trimble Inc.

Thales Group

Kongsberg Gruppen

L3 Harris Technologies Inc.

Raytheon Technologies Corporation

Safran SA

Recent Developments in the Market:

In December 2021, Sea Machines Robotics and Hamilton Jet collaborated to introduce JET sense, an innovative intelligent voyage control product designed for ship navigation in both marine and land environments. JET sense combines autonomous navigation, multi-sensor fusion, and computer vision technologies to enhance ship navigation capabilities.

Global Autonomous Navigation Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – System, Platform, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By System:

Sensing System

Processing System

Software System

By Platform:

Airborne

Land

Marine

Space

Weapons

By Application:

Commercial

Military

Government

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

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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