

Global Radar Sensor Market - Forecasts from 2018 to 2023

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Abstracts

Global radar sensor market is projected to expand at a CAGR of 17.93% over the forecast period of 2017 - 2023. Rising global terrorist attacks and geopolitical issues are increasingly pressurizing governments across the globe to invest heavily in the military and defense sector. According to the Stockholm International Peace Research Institute (SIPRI), total global defense expenditure was US\$1.74 trillion in 2017. The U.S. military and defense sector got US\$700 billion in the country's 2018 budget, a 15.5% jump from that in 2017 in order to keep up with advanced technologies. With growing national security threats, there is a high demand for radars across this sector for trailing and observing activities within and outside the country. This, in turn, is significantly driving the demand for radar sensors worldwide.

The worldwide emergence of autonomous vehicles provides a great opportunity for the growth of radar sensors market in the coming years. This is because ADAS (Advanced Driver Assistance Systems) require several radar sensors for applications such as blind spot detection, park assist, and emergency braking among others, thus making a crucial contribution to the overall functioning of autonomous driving. Automakers are continuously funneling investments into the development of autonomous vehicles in order to reduce road accidents while improving traffic flow. According to the U.S. Energy Information Administration (EIA), congestion in the country resulted in the rise in urban Americans' travel time by 6.9 billion hours in 2014, resulting in the purchase of 3.1 billion gallons more fuel at a cost of US\$160 billion. In 2016, Uber launched a pilot program for its self-driving cars in Pittsburgh while Ford Motors has plans to make self-driving taxis that work without steering wheel, brake or gas pedal and making them available for the public by 2021.

However, radar technology is not good for mapping fine details at large distances for which there is a rising investment in alternate technology, LIDAR. This technology allows measuring distances with high accuracy while offering better resolution than

radar, thus making it better at detecting smaller objects. This will negatively impact the growth of radar sensors market to some extent. Zala, a Russian company is using LIDAR in its drones to be used in the country's military industry.

By Application, the market is segmented as military, air traffic control, remote sensing, ground traffic control, and space. Military and space hold a significant market share on account of rising defense budget across the globe and investments in space technologies. Ground traffic control application will also witness a significant CAGR between 2017 and 2023 owing to growing concerns regarding rising number of road accidents globally and need to reduce congestion on roads.

Geographically, the global radar sensor market is segmented as North America, South America, Europe, Middle East and Africa, and Asia-Pacific. North America accounted for a major market share in 2017 owing to the early adoption of newer technologies coupled with high investments in R&D across various industries. High military and defense budget of countries like U.S. and Canada contributes to the dominance of the regional market in the global radar sensor market. Europe also holds a significant share on account of high investments in the aerospace and defense sector and autonomous vehicles. In 2016, The European Union (EU) provided EUR28 million loan from the European Investment Bank (EIB) to Danish aerospace manufacturer Terma in order to carry out R&D and innovation projects for the development of high-tech products for various civilian space application including radar technology for coastal, harbor, airport and air traffic control. Recently in March 2018, ICEYE announced its collaboration with the European Space Agency (ESA) to explore opportunities by using the company's SAR (synthetic aperture radar) satellite technology and imagery. Recently NAVYA, one of the leading companies in the autonomous vehicle market and smart and shared mobility solutions, has signed a EUR30 million financing agreement with the EIB. APAC regional market for radar sensors is projected to witness the highest CAGR during the forecast period. This fastest regional market growth is majorly attributed to factors such as rising production of autonomous cars in China, increasing government spending in APAC countries to strengthen surveillance capabilities and rising number of installation of renewable energy projects in the region.

Major industry players profiled as part of the report are Geolux d.o.o., Baumer Ltd., ASTYX GmbH, ZF Group, and Hans Turck GmbH & Co. KG among others.

Segmentation

The global radar sensor market is segmented by radar type, application, and geography.

By Radar Type

Continuous Wave Radar
Modulated
Unmodulated
Pulse Radar
Moving Target Indicator (MTI) Radar
Pulse Doppler Radar
By Application
Military
Air Traffic Control
Remote Sensing
Ground Traffic Control
Space
By Geography
North America
United States
Canada
Others
South America
Brazil
Argentina
Others
Europe
United Kingdom
Germany
France
Italy
Others
Middle East and Africa
Saudi Arabia
UAE
Israel
Others
Asia Pacific
Japan
China
India
Australia
Others

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