Global Radar Simulator Market Report: Information by Product (System Testing and Operator Training), Application (Military and Commercial), Component (Hardware and Software), Platform (Airborne, Marine, and Ground), and Region—Forecast till 2023

Market Scenario

Radar simulators are either software solutions or integration of software and hardware. The use of hardware can simulate the control room of aircraft, ship, and ground-based radar stations. The software solutions are installed on a computer system with the least required configurations. These simulators recreate radars and their dynamics to offer users an artificial environment for radar training and functional or system testing.

The radar simulator market has been segmented by product, application, component, platform, and region. Based on component, the market has been further segmented into hardware and software. The hardware segment is expected to lead the radar simulator market during the forecast period. The growth of this segment can be attributed to the rising complexity in simulating various real-time scenarios. Another factor that contributes to the high growth of this segment is the demand for skilled and trained military personnel. Based on application, the military segment is projected to witness the highest growth during the forecast period. This growth can be attributed to the emergence of modern warfare systems, such as electronic warfare and network-centric warfare, which require radar simulators for their functional testing.

The major drivers for the radar simulator market are the emergence of modern warfare systems and affordability of simulator training. The challenges in this market are the complexity of radar simulator and development of customer-centric products. The opportunities in the radar simulator market are the increasing R&D activities in the field of military simulation and increasing defense expenditure in emerging economies. The restraints to this market are the high cost of radar systems.

North America dominated the radar simulator market in 2017, due to the increased application of military radar simulators. The region leads the global market in terms of expenditure and technological advancements and has been using many radar simulators. The US generates very high demand for radar simulator used for commercial purposes. The market is primarily dominated by the US, which is also the largest manufacturer of radar simulator, globally. Canada made some considerable investments in the development of radar systems. Europe is one of the dominating regions in the market. As the UK, France, and Germany have the presence of key manufacturers, it will greatly contribute to market growth. The market in Asia-Pacific is expected to have the fastest growth rate during the forecast period. In Asia-Pacific, manufacturers are adopting cost-effective technologies in their process. The growing adoption of radar simulator in countries, such as China, Japan, and India, is expected to contribute to the growth of the regional market. Therefore, the radar simulator market is estimated to witness a CAGR of more than 6% during the forecast period from 2018 to 2023.

Segmentation of the Global Radar Simulator Market
Key Players

The key players in the radar simulator market are AAI Corporation (US), ARI Simulation (India), Acewavetech (South Korea), Buffalo Computer Graphics (US), Cambridge Pixel Ltd (US), Adacel Technologies Limited (Australia), Harris Corporation (US), Mercury Systems, Inc. (US), Micro Nav Limited (UK), Rockwell Collins (US), Presagis Canada Inc. (Canada), and Ultra Electronics Inc. (UK).

The report on the global radar simulator market by Market Research Future covers extensive primary research. This is accompanied by a detailed analysis of the qualitative and quantitative aspects by various industry experts and key opinion leaders to gain deeper insights into the market and industry performance. The report gives a clear picture of the current market scenario, which includes the historical and forecast market size, in terms of value and volume, and the technological, macroeconomic, and governing factors of the market. The report provides comprehensive information about the strategies of the top companies in the industry, along with a broad study of the different market segments and regions.
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