

Surveillance Radars Market by Application (Commercial, National Security, Defense & Space), Platform (Land, Airborne, Naval, Space), Frequency Band (HF, UHF & VHF; L; S; C; X; Ku; Ka; Multi-bands), Dimension, Component, Region - Global Forecast to 2025

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Abstracts

“Advancement in border surveillance systems, ongoing military modernizations, demand for border surveillance, and the need for advanced air defense systems are the major factors driving the Surveillance Radar Market.”

The global Surveillance Radar market size is projected to grow from USD 8.0 billion in 2020 to USD 11.5 billion by 2025, at a CAGR of 7.6% from 2020 to 2025. The market is driven by various factors, such as the advancement in border surveillance systems, ongoing military modernizations, demand for border surveillance, and the need for advanced air defense systems among others.

The Surveillance Radar market includes major players Raytheon Technologies Corporation (US), Lockheed Martin Corporation (US), Hensoldt (Germany), Israel Aerospace Industries Ltd. (Israel), and Leonardo S.p.A (Italy). These players have spread their business across various countries includes North America, Europe, Asia Pacific, Middle East & Africa, and South America. COVID-19 has impacted their businesses as well. Industry experts believe that COVID-19 could affect surveillance radar production and deliveries by 3% to 5% globally in 2020.

“Ground Based Air Surveillance Radars: The largest market share segment of the surveillance radar market, by Type “

Ground based air surveillance radars is the largest market share segment of the surveillance radar market, by type. The growth of this segment can be attributed due its availability of of cost-efficient unmanned aerial vehicle (UAVS) for airborne surveillance. The requirement for air defense systems is expected to drive the ground-based surveillance radars segment during the forecast period. L3Harris (US) offers a ground-based tactical air surveillance radar (TSAR) for air traffic control and air surveillance. The radar uses a sidelobe antenna and a solid-state transmitter and supports the high-resolution, full-color display.

“Space: The fastest-growing segment of the surveillance radar market, by platform. “

The space segment is projected to grow at the fastest growing segment during the forecast period due to increasing demand for enhanced imaging technology. Synthetic aperture radar (SAR) is the most commonly used surveillance radar for space. Other types of space surveillance radars are Inverse Synthetic Aperture Radar (ISAR) and tracking radars. For example, the US Space Surveillance Network detects, tracks, and identifies objects which travel in Earth’s orbit.

“Frequency Modulated Continuous Wave (FMCW):: The fastest-growing segment of the Surveillance Radar market, by waveform“

Frequency Modulated Continuous Wave (FMCW) is the fastest-growing segment of the Surveillance Radar market. The growth of this segment can be attributed due to increased dependency of low power transmission devices derive the segment. Frequency modulated continuous wave (FMCW) radar radiates continuous transmission power like a simple continuous-wave radar.

“North America:: Region with highest market share in the Surveillance Radar market.”

The North America region of the Surveillance Radar market has the highest market share during the forecast period. The surveillance radars market in the North American region is expected to witness substantial growth during the forecast period due to the ongoing modernizations of aircraft, ships, border surveillance systems, among others. According to an article published in by The Intercept on 25th August 2019, the US Customs and Border Patrol (CBP) are planning to install 10 surveillance towers across the Arizona border under a USD 26 million contract with Elbit Systems (Israel). Cross-border conflicts, high illegal immigration rates, and drug trafficking have led to the US Homeland Security investing heavily in border security and detection systems. The US

Customs and Border Protection has started installing surveillance towers across the Texas border.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1–35%; Tier 2–45%; and Tier 3–20%

By Designation: C Level–35%; Directors–25%; and Others–40%

By Region: North America–40%; Europe–30%; Asia Pacific–20%; Middle East & Africa–5%; and South America-5%

The Surveillance Radar market includes major players Raytheon Technologies Corporation (US), Lockheed Martin Corporation (US), Hensoldt (Germany), Israel Aerospace Industries Ltd. (Israel), and Leonardo S.p.A (Italy) are some of the leading players operating in the Surveillance Radar market report.

Research Coverage

The study covers the Surveillance Radar market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on component, application, dimension, range, waveform, type, frequency, application, and region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Reasons to Buy this Report

This report is expected to help market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall surveillance radar market and its segments. This study is also expected to provide region wise information about the applications, wherein surveillance radar is used. This report aims at helping the stakeholders understand the competitive landscape of the market, gain insights to improve the position of their businesses and plan suitable go-to-market strategies. This

report is also expected to help them understand the pulse of the market and provide them with information on key drivers, restraints, challenges, and opportunities influencing the growth of the market.

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*Details on Business Overview, Products/services/solutions Offered, Recent Developments, SWOT Analysis, and MnM View might not be captured in case of unlisted companies.

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TABLE 236 MILITARY RADARS MARKET FOR ARMY, BY END USER, 2018–2025 (USD MILLION)

18.4.1 AIRBORNE RADARS

18.4.1.1 Increasing need for the advanced situational awareness and information dissemination abilities drive this segment

TABLE 237 ARMY: AIRBORNE RADARS MARKET, BY REGION, 2018–2025 (USD MILLION)

18.4.2 LAND RADARS

18.4.2.1 Increase in the development and procurement of missile and air-defense systems across countries fuel this segment

TABLE 238 ARMY: LAND RADARS MARKET, BY REGION, 2018–2025 (USD MILLION)

18.4.3 OVER THE HORIZON RADARS

18.4.4 MISSILE AND GUNFIRE CONTROL RADARS

18.4.5 PERIMETER SURVEILLANCE RADARS

18.4.6 LONG RANGE SURVEILLANCE RADARS

18.5 AIRFORCE

TABLE 239 MILITARY RADARS MARKET FOR AIRFORCE, BY END USER, 2018–2025 (USD MILLION)

18.5.1 AIRBORNE RADARS

18.5.1.1 Airborne radars are preferred in border protection applications
TABLE 240 AIRFORCE: AIRBORNE RADARS MARKET, BY REGION, 2018–2025 (USD MILLION)

18.5.2 LAND RADARS

18.5.2.1 Advancements in 4D imaging and signal processing techniques drive this segment

TABLE 241 AIRFORCE: LAND RADARS MARKET, BY REGION, 2018–2025 (USD MILLION)

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18.6 SPACE

TABLE 242 MILITARY RADARS MARKET FOR SPACE, BY REGION, 2018–2025
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18.6.1 SEARCH AND DETECTION RADARS

18.6.1.1 Increased demand for three-dimensional imaging of the target will drive the market

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About

The global surveillance and security radars market is based upon the review of numerous radar productions, procurements, operations and maintenance, and Research, Development, Test and Evaluation (RDT&E) programs, which shows the market growth of approximately \$3 billion within the forecast period. Radar technology is a domain in which every nation is trying to achieve supremacy. There has been a rapid increase in the sophistication of weapons in order to tackle the hostility of threats.

A large number of civil applications of radars are also applied to the military purposes, especially the weather detection and navigation radars; moreover, radar is used for surveillance and security purpose and the control of weapons by the military. The purpose of surveillance radars is to detect and locate hostile targets when considering the military actions as well as in commercial aviation purpose.

A significant number of countries are investing in the development of their domestic military radar producing capabilities by establishing strategic alliances and technology transfer agreements with established global manufacturers. In addition to improving the indigenous capabilities of a domestic firm, this provides the foreign company with an opportunity to cater to a new market.

With the threats posing to every other nation from its neighbors and tensions blazing in the waters near their border, the market has identified a new opportunity to cater to the needs of coastal surveillance and border security radars which are being procured in a colossal amount by the emerging economies globally.

The AESA radar system, developed by Northrop Grumman, is quickly gaining popularity for the next generation defense platforms in addition to the significant use of UAVs which is identified as another growth region in the defense and aviation sector. Retrofitting these capabilities on existing defense and commercial platforms and the extension of these capabilities on to land, naval vessels and other airborne platforms is a recent market trend in the military radar market and expounds invaluable gains in reliability.

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