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Saudi Arabia Long-Range Radar Systems Market By Component (Antenna, Transmitter, Receiver), By Technology (Pulsed Radar, Continuous Wave (CW) Radar), By End User (Airborne, Ground-Based, Naval), By Region, Competition, Forecast & Opportunities, 2018-2028

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Abstracts

Saudi Arabia long-range radar systems market is expected to grow during the forecast period owing to significant factors such as increase in the demand for radar systems in automotive and defense industries, advancement in radar technology, and increase in territorial battles. However, adverse climatic conditions result in malfunctioning of long-range radar systems, which acts as a major restraint of the Saudi Arabia long-range radar systems market.

Long-range radar system uses range radar systems for detection of objects with the use of radio signal and echo waves. Signal recognizes any suspected objects by capturing waves that hit an object and comes back to the system for confirmation.

Saudi Arabia Long-Range Radar Systems Market: Drivers & Trends

Increasing Demand from the Defense Sector:

The purpose of long-range radar systems is to provide the military a complete view of their surrounding from both land and water. An even more complete picture of prospective dangers is possible because of the additional information that the long-range coastal radars give that would otherwise be challenging to gather. The Saudi Arabian Government (SAG) is anticipated to invest more than USD 20 billion in the

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military sector during the following ten years, according to the governor of the General Authority for Military Industries (GAMI), who provided this information in February 2021. The general defence industry will get half of this sum, while research and development (R&D) will receive the remaining half. By 2030, the Kingdom also intends to boost military R&D expenditures from 0.2% to about 4% of arms budget. Additionally, GAMI, in partnership with Original Equipment Manufacturers, has committed to develop the Kingdom's defense sector by securing the transfer of technology and development to local manufactures and by building local capabilities and talent. GAMI has also partnered with various Saudi Universities to support its military R&D initiatives and to develop its human capital potential in this area. Therefore, with the Kingdom's increasing focus on developing their defense sector, the demand for long-range radar systems is likely to proliferate in the coming years.

Technological Advancements in Long-Range Radar Systems:

The range of applications for radars is huge in every field, and the potential for future developments is immense. Recent breakthroughs in radar technology combined with the demand for compact, affordable, and high precision radar for military and commercial applications, has led to a renaissance in the methods and use of radar. Many of the upcoming sectors of technology growth, namely autonomous vehicles, unmanned aerial vehicles (UAV), and various commercial/civilian applications rely upon solid-state radar and new methods of fabrication and programming. This resurgence is a by-product of escalating advancements in radar, stealth, and jamming technologies for defense that is driving long-range radar systems into obsolescence. A wide accessibility to sophisticated digital-signal processing (DSP), agile RF transceivers, and cutting-edge antenna techniques is fuelling this accelerating change.

The most recent radar systems are also intricately interwoven collections of digital, analogue, and RF/microwave devices that are managed and interpreted by highly developed computer systems. SDR technology is used in Wi-Fi routers, smart phones, vehicles, cellular base stations, and most current radar systems. As a result, the need for long-range radar systems from a variety of end users, including the military, law enforcement, and commercial sectors, is projected to rise throughout the kingdom of Saudi Arabia.

Development of New Products and Technology in Long Range Radar:

Long-range radar system development is accelerated by the creation of new goods. The Government of Saudi Arabia has invested in the radar industry to support

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communication and upcoming space missions. The development of next-generation radar sensors, which offer a 360-degree surround view that is extremely important for naval operations at sea, is a focus for top radar manufacturers. As a result, the demand from the defense sector for multi-functional radar systems is exponentially growing. Teams have begun long-range radar system R&D as a result of the rising demand, which has also increased the need for radar systems across the nation and for the armed forces.

Increasing Demand for Phased Array Radar Systems:

Phased-array radar systems offer accurate mapping of terrains as they are equipped with a large number of small radiating elements in the phased array antennas that are present in them. These specialized antennas can focus the radar's radiation into high-energy pencil beams, which can be guided electronically without the need for physical movement of the antenna structure. Phased-array antennas have an advantage over parabolic antennas, as radar using them can schedule the transmission and reception beams according to specific operational modes. These modes include low beams for long-range detection, multi-pulse beams for detection in clutter, and high beams for ballistic missile warning. Moreover, solid state phased radars are capable of detecting, classifying, tracking, and determining the location of a target. Thus, the demand for long-range radar using phased-array antennas is one of the key factors expected to drive the growth of the Saudi Arabia long-range radar systems market in the coming years.

Increasing Demand for Long-Range Radar Systems in the Automotive Industry:

The rising need for long-range radar systems, which are widely utilized in passenger cars and other types of transportation, is one of the key drivers influencing the market. This tool allows the driver to locate obstacles up to 250 yards away from the vehicle. Along with lane changes, cruise control, which modifies speed to maintain a safe distance from vehicles in front, and collision warning, which warns the driver of impending dangers, radar technology is also incorporated into automobiles. Thus, long-range radar systems are significant contributors to the market expansion of air defence, anti-missile, and aircraft anti-collision systems. Furthermore, increase in air traffic and water transport has led to a rise in the number of units of ships and aircraft, which has elevated the demand for radar systems. Furthermore, factors such as economic growth, increasing demand for passenger vehicles, and rising concerns about the vehicle & driver safety are expected to augment the growth of the long-range radar systems market in the coming years.

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Saudi Arabia Long-Range Radar Systems Market: Challenges

High Capital Investment:

High cost incurred in the development, installation, and maintenance of radar systems are projected to inhibit the growth of the market. The requirement of high capital investments for the development of advanced long-range radar systems may also led to increase the cost of long-range radar systems. In addition, as warfare technologies evolve, military products become more versatile and advanced. However, the high-cost of military man-portable long-range radar systems may have deterred impact on the Saudi Arabia long-range radar market. In addition, radar system consists of equipment's including the sensors in a single system, which further increase the complexity and cost of production. Therefore, high initial manufacturing cost coupled with maintenance cost restrains the growth of the Saudi Arabia long-range radar system market.

COVID-19 Impact analysis:

The overall effect of COVID-19 pandemic is affecting long-range radar system production is done in a number of different businesses. The whole manufacturing process suffered in 2020 as a result of the Saudi government's announcement of a total lockdown and a temporary suspension of industries, which hindered the expansion of the long-range radar system market as a whole. The outbreak of COVID-19 is having an impact on society and the overall economy of the country. As a result, there was uncertainty on the stock market, a drop in corporate confidence, a considerable slowdown in the supply chain, and an increase in customer segment anxiety. Saudi Arabia, which is under lockdown during the COVID pandemic, had seen a considerable loss in income as a result of the shutdown of industrial facilities in the country. The COVID-19 pandemic had a significant influence on the operations of the production and manufacturing sectors, which restricted the growth of the Saudi Arabia long-range radar systems market in 2020.

Market Segments

The Saudi Arabia long-range radar systems market is segmented into component, technology, end user, and region. Based on component, the market is segmented into antenna, transmitter, and receiver. Based on technology, the market is segmented into pulsed radar and continuous wave (CW) radar. Based on end user, the market is segmented into airborne, ground-based, and naval. Based on region, the market is

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segmented into northern & central, eastern, western, and southern.

Market Players

Saudi Arabia Long-Range Radar Systems Market players include Airbus SE, BAE Systems Saudi Arabia, Leonardo Saudi Ltd, Lockheed Martin Corporation, Northrop Grumman Corporation, Raytheon Saudi Arabia, Rheinmetall Electronics GmbH, Thales Group, HENSOLDT Holding Germany GmbH, and Honeywell Turki Arabia Ltd.

Report Scope:

In this report, the Saudi Arabia long-range radar systems market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Saudi Arabia Long-Range Radar Systems Market, By Component:

Antenna

Transmitter

Receiver

Saudi Arabia Long-Range Radar Systems Market, By Technology:

Pulsed Radar

Continuous Wave (CW) Radar

Saudi Arabia Long-Range Radar Systems Market, By End User:

Airborne

Ground-Based

Naval

Saudi Arabia Long-Range Radar Systems Market, By Region:

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- Western
- Eastern
- Southern
- Northern & Central

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia long-range radar systems market.

Available Customizations:

With the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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