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Space Radar Market By Type (Synthetic Aperture Radar, Doppler Radar), By Application (Earth Observation, Weather Forecasting, Disaster Management, Others), By Platfrom (Satellite-Based, Airborne Platforms), By Frequency Band (X-Band (8-12 GHz), C-Band (4-8 GHz), L-Band (1-2 GHz), Ku, Ka, and V Bands), By End User (Defense and Security, Government and Commercial): Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The space radar market refers to the industry focused on the development, deployment, and utilization of radar systems integrated into satellites for Earth observation, surveillance, and communication. Space radar, including technologies such as Synthetic Aperture Radar (SAR), is used to capture high-resolution imagery and gather data on Earth’s surface, atmospheric conditions, and space debris, regardless of weather conditions or time of day. These systems are critical for various applications, including defense, disaster management, climate monitoring, agriculture, and urban planning. The market encompasses satellite manufacturers, technology providers, and service operators, as well as the increasing demand for radar-based data solutions across government, commercial, and military sectors. As the demand for precise, real-time data grows, the space radar market continues to expand globally.

For instance, in October 2024,HENSOLDT, a sensor solutions provider, has secured a contract with Space Centre Australia (SCA) to supply two high-performance Air Surveillance Radar - Next Generation (ASR-NG) systems, along with a 20-year sustainment plan, to enhance Australia's air surveillance capabilities. The total value of

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the initial phase of the contract is approximately $30 million. As per the contract, HENSOLDT is expected to deliver the two ASR-NG radars by the end of 2026, with sustainment services scheduled to begin in 2027, further strengthening Australia's defense and air monitoring infrastructure.

In addition,space radar market includes the growing use of Synthetic Aperture Radar (SAR) for high-resolution Earth observation, advancements in radar satellite technology for climate monitoring and disaster management, and the increasing adoption of space radar systems for defense and security applications, driving global demand for real-time data.

The grow in awareness of space debris monitoring to ensure safe orbital operations is significantly driving the demand for the space radar market. As space debris poses a threat to operational satellites and spacecraft, radar systems, especially synthetic aperture radar (SAR), are crucial for tracking and managing debris, enhancing collision avoidance, and supporting sustainable space activities for long-term safety.Furthermore, increase in demand for space-based surveillance and Earth observation for defense and security applications has driven the demand for the space radar market. However,limited technological expertise and infrastructure in emerging economies are hindering the growth of the space radar market. Many developing nations lack the necessary skills, research capabilities, and space infrastructure to develop, launch, and maintain advanced radar systems. This restricts their ability to adopt space radar technology, slowing market expansion and limiting its accessibility in these regions.Furthermore, High development and deployment costs for space radar systems is hampering the growth of the space radar market. On the contrary,The increasing use of radar satellites in climate monitoring and disaster management presents a lucrative opportunity for the space radar market. Radar systems, particularly Synthetic Aperture Radar (SAR), provide valuable data for tracking climate change, monitoring environmental shifts, and responding to natural disasters. Their ability to operate in all weather conditions enhances the effectiveness of early warning systems and disaster response.

The global Space radar market is segmented on the basis of type, application, platform, frequency band, end user, and region. On the basis of type, the market is bifurcated into synthetic aperture radar, and doppler radar. By application, the market is divided into earth observation, weather forecasting, disaster management, and others. On the basis of system platform, the market is bifurcated into satellite-based, and airborne platform. By frequency band, the market is segmented into X-Band (8-12 GHz), C-Band (4-8 GHz), L-Band (1-2 GHz), Ku, Ka, and V Bands. On the basis of end user, the market is segmented into defense and security, commercial, government and enterprise, and private enterprise. Region wise, it is analyzed across North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa.

The report analyzes the profiles of key players operating in the space radar market such asLockheed Martin Corporation, Raytheon Technologies, Northrop Grumman Corporation, Thales Group, Leonardo S.p.A., Saab AB, BAE Systems plc, Capella Space, ICEYE, Airbus Defence, Boeing, Thales Group, NEC Corporation, and Denel Dynamics.These players have adopted various strategies to increase their market penetration and strengthen their position in the Space radar.

Key Benefits for Stakeholders

The study provides in-depth analysis of the global Space radar along with the current & future trends to illustrate the imminent investment pockets.

Information about key drivers, restrains, & opportunities and their impact analysis on the global Space radar size are provided in the report.

Porter’s five forces analysis illustrates the potency of buyers and suppliers operating in the industry.

The quantitative analysis of the global Space radar from 2023 to 2033 is provided to determine the market potential.

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Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

SWOT Analysis

Key Market Segments

By Type

Synthetic Aperture Radar

Doppler Radar

By Application

Earth Observation

Weather Forecasting

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Disaster Management

Others

By Platfrom

Satellite-Based

Airborne Platforms

By Frequency Band

X-Band (8-12 GHz)

C-Band (4-8 GHz)

L-Band (1-2 GHz)

Ku, Ka, and V Bands

By End User

Defense and Security

Government and Commercial

By Region

North America

U.S.

Canada

Mexico

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Europe

- UK
- Germany
- France
- Russia
- Rest of Europe

Asia-Pacific

- China
- Japan
- India
- South Korea
- Rest of Asia-Pacific

LAMEA

- Latin America
- Middle East
- Africa

Key Market Players

- Lockheed Martin Corporation
- Saab AB

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Capella Space

AIRBUS

NEC Corporation

BAE Systems

RTX

Thales

Leonardo S.p.A.

ICEYE

Boeing

Denel Dynamics

Northrop Grumman

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