

India Radar Market Size, Share and Growth Analysis Report - Forecast Trends and Outlook (2025-2034)

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Report description:

The India radar market reached around USD 1.17 Billion in 2024. The market is projected to grow at a CAGR of 4.30% between 2025 and 2034 to reach nearly USD 1.78 Billion by 2034.

India Radar Market Growth

Over the last four years, India has consistently increased its defence budget, reflecting a strong commitment to enhancing its defence capabilities in response to escalating security threats. The budget commenced at Rs 4.71 lakh crore in 2020 and subsequently rose to INR 4.78 lakh crore in 2021, INR 5.25 lakh crore in 2022, and reached INR 5.94 lakh crore in 2023. The anticipated budget for 2024 is projected to exceed INR 6 lakh crore, indicating a continuous upward trend. Significant investments in defence facilitate the acquisition of advanced equipment, such as radars, which are crucial for safeguarding national security. In the realm of defence, radars play a vital role in various applications that improve situational awareness, provide early warning capabilities, and enhance precision in military operations. The utilisation of radar technology is fundamental to contemporary defence systems, offering critical functions for the detection, tracking, and engagement of threats across multiple domains.

The civil aviation sector in India is experiencing rapid growth. It is estimated that by 2030, the country will accommodate over 500 million air travellers, both domestic and international, positioning itself to potentially become the leading aviation market globally by 2047. The Directorate General of Civil Aviation reports that domestic airlines transported more than 76 million passengers in the first half of 2023, a significant increase from 57 million during the same timeframe in the previous year. This expansion in the aviation industry is expected to result in a substantial increase in air traffic. To ensure safety, primary and secondary surveillance radars are employed to monitor and track aircraft positions, altitudes, and speeds in real time, maintaining safe distances between aircraft during flight and while approaching airports. Additionally, precision approach radars are utilised to assist aircraft during landing, particularly in adverse visibility conditions such as fog, heavy rain, or nighttime operations.

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Key Trends and Developments

Wide applications of radars in defence and military, technological advancements, the robust growth of the aerospace and civil aviation sectors, and infrastructure development activities are the major trends impacting the India radar market growth.

April 2024

HL Klemove inaugurated its first local Advanced Driving Assistance System (ADAS) Radar Manufacturing Unit in India. Through this, the company aims to enhance the application of ADAS in the Indian automotive sector and align with the government's 'Make in India' objective.

May 2024

A Czech company, Eldis, secured a contract to supply 20 new airport radars for civil air traffic control systems in India by 2026. The contract is a part of India's Vision 2040 programme, aimed at modernising the aviation sector.

August 2024

The Tamil Nadu government announced the installation of two Doppler weather radars for Yercaud and Ramanathapuram, aimed at monitoring cyclones in partnership with the India Meteorological Department (IMD).

Wide Applications of Radars in Defence and Military

The Indian government has escalated its investment in defence and military modernisation, emphasising the enhancement of surveillance and reconnaissance capabilities. Additionally, ongoing border tensions and the necessity for improved security along both land and maritime borders are propelling the demand for advanced radar systems.

Technological Advancements and Innovations

The ongoing advancement of sophisticated radar technologies, including Active Electronically Scanned Array (AESA) systems, enhances detection capabilities and boosts operational efficiency.

Robust Growth of the Aerospace and Civil Aviation Sectors

The growth of the civil aviation sector and the increasing requirements for air traffic management are driving the demand for air traffic control radar systems.

Rapid Infrastructure Development Activities

The increasing infrastructure development initiatives, such as the development of smart cities and highways, are driving the need for radar systems in traffic management and monitoring applications.

Surging Indigenous Manufacturing Initiatives

Government programmes such as "Make in India" are aimed at fostering the domestic manufacturing of defence equipment, including radar systems, in order to diminish dependence on foreign imports.

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India Radar Market Trends

Radars are integral to defence and military operations, offering essential data for situational awareness, surveillance, targeting, and protection. They facilitate the continuous observation of air, land, and maritime domains, enabling the detection and tracking of hostile aircraft, missiles, naval vessels, and ground vehicles. These systems are vital for identifying incoming threats, such as enemy aircraft and missiles, which allows for prompt interception and neutralisation by surface-to-air missile systems or fighter jets. Fire-control radars are specifically designed to acquire and monitor individual targets, directing munitions like missiles or artillery to accurately engage and eliminate them. Additionally, military aircraft rely on radars for navigation, terrain following, and ensuring safe landings in challenging weather or low-visibility situations.

India Radar Industry Segmentation

India Radar Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

Market Breakup by Component:

- Antenna
- Transmitter
- Receiver
- Others

Market Breakup by Radar Service:

- Installation/Integration
- Support and Maintenance
- Training and Consulting

Market Breakup by Platform:

- Ground-Based
- Airborne
- Naval
- Space Based

Market Breakup by End Use:

- Military Applications
- Air Traffic Control
- Remote Sensing
- Ground Traffic Control
- Others

Market Breakup by Region:

- North India
- East and Central India
- West India

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- South India

India Radar Market Share

Based on radar service, the market is segmented into installation/integration, support and maintenance, and training and consulting. The support and maintenance segment is projected to grow at a CAGR of 4.9% during the forecast period of 2025-2034. The provision of support and maintenance for radar systems is essential to guarantee their reliable performance, precision, and durability. Routine maintenance helps avert unforeseen malfunctions, reduces downtime, and ensures adherence to safety regulations, which is vital for optimal functioning in critical applications.

Leading Companies in India Radar Market

Major players are focusing on the adoption of 3D and 4D radar technologies to gain a competitive edge in the market.

- Honeywell International Inc.
- Lockheed Martin Corporation
- Northrop Grumman Corp.
- BAE Systems Plc
- RTX Corp.
- Thales S.A.
- Saab AB
- Aimil Ltd.
- General Dynamics Corp.
- Leonardo S.p.A
- Others

The comprehensive report looks into the macro and micro aspects of the market. The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

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