

Air and Missile Defense Radar (AMDR) Market by Platform (Ground-based, Naval-based, Airborne-based), Range (Short Range, Medium Range, Long Range and Strategic System), Application (Ballistic Missile Defense, Conventional), and Region 2024-2032

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Report description:

The global air and missile defense radar (AMDR) market size reached US\$ 13.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 22.5 Billion by 2032, exhibiting a growth rate (CAGR) of 5.4% during 2024-2032. The increasing global security concerns, the widespread integration with command-and-control systems, and continual advancements in radar technologies represent some of the key factors driving the market.

The air and missile defense radar (AMDR) are an advanced radar system designed to provide comprehensive surveillance and protection against airborne threats, including aircraft and ballistic missiles. It is a crucial component of modern defense systems, enabling early detection, tracking, and engagement of hostile targets to enhance the effectiveness of air and missile defense operations. It utilizes advanced radar technology, including active electronically scanned arrays (AESAs), to achieve superior performance in terms of range, accuracy, and multi-mission capabilities. It operates by emitting high-frequency radio waves and analyzing the reflections from the targets in its coverage area. It has the ability to detect and track multiple targets simultaneously, including low-flying aircraft and ballistic missiles. This provides an enhanced situational awareness for defense operators, enabling them to make informed decisions and effectively engage incoming threats. Besides, it can be integrated into various platforms, including ground-based systems, naval vessels, and mobile units, providing flexibility and adaptability to different operational environments.

Air and Missile Defense Radar (AMDR) Market Trends:

The market is primarily driven by the increasing global security concerns. Along with this, the increasing geopolitical tensions

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among various countries have led to a rise in the demand for air and missile defense capabilities, which is propelling the market. Moreover, the increasing emphasis on multi-domain operations, which involve integrating air, land, sea, cyber, and space domains, is catalyzing the growth of the market. Apart from this, ongoing advancements in radar technologies, such as active electronically scanned arrays (AESAs), have enhanced the performance and capabilities of AMDR systems, which in turn is creating a positive market outlook. Besides, AMDR systems with enhanced speed, range, and tracking capabilities are sought after to effectively detect and counter hypersonic threats, contributing to the market. Furthermore, the integration with command-and-control systems is creating a positive market outlook as integration allows for real-time data sharing, improved situational awareness, and efficient decision-making, further fueling the adoption of AMDR systems. Besides, the rising government initiatives and policies that prioritize national security and defense modernization are supporting the growth of the market. Moreover, the demand for secure and resilient AMDR systems that can withstand cyber threats drives investment in innovative technologies and solutions is impacting the market favorably.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global air and missile defense radar (AMDR) market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on platform, range, and application.

Platform Insights:

- Ground-based
- Naval- based
- Airborne-based

The report has provided a detailed breakup and analysis of the air and missile defense radar (AMDR) market based on the platform has also been provided in the report. This includes ground-based, naval-based, and airborne-based. According to the report, naval-based exhibit a clear dominance in the market.

Range Insights:

- Short Range
- Medium Range
- Long Range and Strategic System

A detailed breakup and analysis of the air and missile defense radar (AMDR) market based on the range has also been provided in the report. This includes short range, medium range, long range and strategic system.

Application Insights:

- Ballistic Missile Defense
- Conventional

A detailed breakup and analysis of the air and missile defense radar (AMDR) market based on the application has also been provided in the report. This includes ballistic missile defense, and conventional.

Regional Insights:

- North America

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United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America exhibits a clear dominance in the market. Some of the factors driving the North America air and missile defense radar (AMDR) market included the rising demand for secure and resilient AMDR systems, numerous favorable government initiatives and policies, and the increasing geopolitical tensions among various countries.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global air and missile defense radar (AMDR) market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Israel Aerospace Industries Ltd., Leonardo S.p.A., Lockheed Martin Corporation, Northrop Grumman Corporation, Raytheon Technologies Corporation, Reutech Radar Systems (Reunert Ltd.), Rheinmetall AG, Saab AB, Thales Group, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global air and missile defense radar (AMDR) market performed so far, and how will it perform in the coming years?
What are the drivers, restraints, and opportunities in the global air and missile defense radar (AMDR) market?
What is the impact of each driver, restraint, and opportunity on the global air and missile defense radar (AMDR) market?
What are the key regional markets?
Which countries represent the most attractive air and missile defense radar (AMDR) market?
What is the breakup of the market based on the platform?
Which is the most attractive platform in the air and missile defense radar (AMDR) market?
What is the breakup of the market based on the range?

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Which is the most attractive range in the air and missile defense radar (AMDR) market?

What is the breakup of the market based on application?

Which is the most attractive application in the air and missile defense radar (AMDR) market?

What is the competitive structure of the global air and missile defense radar (AMDR) market?

Who are the key players/companies in the global air and missile defense radar (AMDR) market?

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