

Digital Radar Market Predicted to Surge to US\$ 21.32 Billion Expanding at a 17.8% CAGR From 2024 to 2032

The rising geopolitical tensions and increased security concerns across the country's borders are the major factors driving the digital radar market growth.

NEW YORK CITY, NY, UNITED STATES, September 12, 2024 /EINPresswire.com/ -- The digital radar market report by Polaris Market Research offers a comprehensive analysis of the market, covering all the major aspects to help stakeholders make informed decisions.



Digital radars are being increasingly used for safety, security, and surveillance in the automotive, aerospace, military, and defense sectors"

Polaris Market Research

The digital radar market is projected to reach US\$ 21.32 billion by 2032, growing at a CAGR of 17.8% from 2024 to 2032. The market is driven by the increasing demand for digital radar systems in various sectors, including automotive, aerospace, military, and defense. The market is expected to grow at a CAGR of 4.90% from 2023 to 2032.

What are digital radar systems?

Radars are electromagnetic equipment used to detect the location and distance of objects. They use radio waves to determine the angle, speed, and spread of objects within their radius. Radars consist of a transmitter to produce an electromagnetic signal, which is radiated into space using an antenna. Digital radar systems make use of digital waveforms for generating radio frequency signals and processing target returns digitally. The use of digital waveforms gives them several advantages over conventional radar systems.

Digital radars can create high-resolution maps of a vehicle's surroundings, including their speed, location, and elevation of objects. Also, they can process echoes to improve signal quality and usability. Digital radars play a vital role in various mission-critical applications, including search and rescue and offshore security. The rising incidences of unauthorized border activities have created a demand for highly efficient surveillance solutions, thereby impacting the digital radar market growth favorably.

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Advanced Micro Devices, Inc., Ainstein, Arbe, BAE Systems, Bharat Electronics Limited (BEL), Elbit Systems Ltd., IAI, Indra, Leonardo Group, Lockheed Martin Corporation, and Magna International Inc. are some of the leading players in the digital radar market. These industry participants focus on a variety of strategic initiatives to expand their global presence. These include increased investments, international collaborations, and mergers and acquisitions. Some of the latest developments in the market are:



- In July 2024, Furuno USA announced the launch of their new FAR2XX8MK2 series of commercial radars. The new radars are specifically engineered to provide enhanced radar images to improve safety and reliability at the sea.
- In April 2023, Fisker Inc. introduced digital radar technology into a production vehicle. The radar technology brings advanced safety features to the Fisker Ocean all-electric SUV.

Technological Advancements: Innovations in digital radar technology, which include high-resolution imaging, have improved the precision and reliability of radar systems. The top market players are continuously introducing digital radars with the aforementioned technologies to cater to the diverse market needs.

Growing Automotive Sector: The automotive sector is booming worldwide owing to a rise in vehicle sales having advanced technologies such as driver-assistance systems and self-driving. This, in turn, is having a favorable impact on the digital radar market sales.

Increased Investment: Companies across various sectors, including aerospace, automotive, and telecommunications, have recognized the benefits of digital radars and have started investing in the technology. The private sector investment in radar technology is driving market demand.

Key players in the digital radar market include:

North America: North America accounted for the largest digital radar market share. The region's robust growth is primarily due to the increased use of digital radars in unmanned aerial vehicles and drones. The region is experiencing a surge in the demand for both commercial and recreational drones.

Asia Pacific: Asia Pacific is anticipated to witness significant growth from 2024 to 2032. This can be attributed to the presence of several manufacturers in the region. These companies are driving innovation in radars, thereby contributing to the regional market growth.

Market Segments

By Type

- Active
- Passive

By Dimensionality

- 2D & 3D
- 4D

By Application

- Safety
- Security & Surveillance
- Others

By End User

- Automotive
- Aerospace
- Military & Defense
- Others

By Region

- North America
 - o US
 - o Canada

- Europe
 - o Germany
 - o France
 - o UK
 - o Italy
 - o Spain

- o Netherlands
- o Russia
- o Rest of Europe

- Asia Pacific

- o China
- o Japan
- o India
- o Malaysia
- o South Korea
- o Indonesia
- o Australia
- o Rest of Asia Pacific

- Middle East & Africa

- o Saudi Arabia
- o UAE
- o Israel
- o South Africa
- o Rest of Middle East & Africa

- Latin America

- o Mexico
- o Brazil
- o Argentina
- o Rest of Latin America

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What is the growth rate of the digital radar market?

The market is projected to grow at a CAGR of 17.8% from 2024 to 2032.

Which region held the largest market share in 2023?

North America had the largest share of the market.

Which application held the highest share in the digital radar market in 2023?

The safety segment held the highest share of the market.

Which vertical had the highest CAGR in the global market?

The military & defense category registered the highest CAGR in the digital radar market.

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Likhil G

Polaris Market Research and Consulting

+1 929-297-9727

sales@polarismarketresearch.com

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