

Four Dimensional (4D) Imaging Radar Market Size, Share & Trends Analysis Report By Product

The Business Research Company's Four Dimensional (4D) Imaging Radar Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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The Business
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Four Dimensional (4D) Imaging Radar Global Market Report 2025

What Is The [Four Dimensional \(4D\) Imaging Radar Market](#) Size And Growth?

The market for four-dimensional (4D) imaging radar has experienced a swift expansion in recent years, with a projected increase from \$2.38 billion in 2024 to approximately \$2.75 billion in 2025. This represents a compound annual growth rate (CAGR) of 15.6%. The historic period witnessed such growth due to factors like an increasing demand for advanced safety attributes in vehicles, the necessity for high-resolution imaging in real-time scenarios, an intensifying focus on emerging state-of-the-art technologies, and heightened worries about potential cyber attacks targeting crucial border security.

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The market size for four-dimensional (4d) imaging radar is expected to experience swift expansion over the next several years, reaching a value of \$4.53 billion by 2029, with a compound annual growth rate (CAGR) of 13.3%. This predicted growth within the forecast period can be linked to several key factors. These include, the escalating demand for advanced driver assistance systems (ADAS), the quick-paced growth of the automotive industry, the rising popularity of 4D imaging radar technology, an increase in governmental initiatives promoting the deployment of radar technologies, and a growing requirement for real-time monitoring systems. Key trends within the forecast period to note are

advancements in the next generation of radar sensors, technological progress within the domain of 4D, the integration of 4D imaging radars within autonomous vehicles, increased incorporation of 4d imaging radar technologies with other sensors and systems, and the embracing of artificial intelligence and machine learning.

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What Are The Current Leading Growth Drivers For Four Dimensional (4D) Imaging Radar Market?

The four-dimensional (4D) imaging radar market is anticipated to expand due to the increasing demand in the automobile sector. The driving force behind this growth is the auto industry's continuous focus on innovation, safety, and the creation of superior advanced driver assistance systems (ADAS) in vehicles. The 4D radar technology enhances detection and tracking of objects and improves situational awareness. As per the data released by the European Automobile Manufacturers Association, a Belgium-based corporation, in May 2023, the global motor vehicle production soared to 85.4 million units in 2022, showing a significant 5.7% rise from the previous year. Moreover, Brand Finance plc, a leading valuation company in the UK, reported that vehicle sector accomplished roughly 78 million unit sales in 2022, reflecting a substantial 10% increase, outpacing the figures for both 2021 and 2020. As a result, burgeoning demand within the automotive industry is fuelling the expansion of the 4D imaging radar market.

Which Companies Are Currently Leading In The Four Dimensional (4D) Imaging Radar Market?

Major players in the Four Dimensional (4D) Imaging Radar Global Market Report 2025 include:

- Lockheed Martin Corporation
- DENSO Corporation
- ZF Friedrichshafen AG
- Continental AG
- General Dynamics Corporation
- Honeywell International Inc.
- Infineon Technologies AG
- NXP Semiconductors N.V.
- Autoliv Inc.
- Bendix Commercial Vehicles Systems LLC

What Are The Key Trends And Market Opportunities In The Four Dimensional (4D) Imaging Radar Sector?

Leading firms in the four-dimensional (4D) imaging radar market are focusing on creating innovative state-of-the-art solutions, including 4D digital imaging radar, to stay ahead in competition and meet the changing requirements of the market. This is a well-defined, long-range sensor technology which enhances conventional radar systems by adding vertical information, thereby improving the accuracy of object detection and classification. For example, Uhnder Inc., a US firm that creates a digital radar-on-chip for the automotive industry, launched

a 4D digital imaging radar in March 2022. The radar is designed for future advanced driver assistance systems (ADAS), autonomous vehicles (AVs), and automated mobility applications. The S80, as this radar-on-chip is named, boasts superior resolution, power on target, and contrast compared to traditional analog radar systems. It aims to enhance the detection capabilities of ADAS and autonomous vehicles. The S80 is software-defined and complies with stringent automotive standards. This groundbreaking technology also marks a significant progress in overcoming challenges faced by conventional radar systems, such as limited object classification abilities, subpar performance under extreme conditions, and issues of interference caused by the simultaneous deployment of multiple radars.

How Is The [Four Dimensional \(4D\) Imaging Radar Market Segmented](#)?

The four dimensional (4d) imaging radar market covered in this report is segmented –

- 1) By Type: Short Range Radar, Medium And Long Range Radar
- 2) By Vehicle Type: Commercial Vehicle, Passenger Cars, Industrial Trucks, Specialty Vehicles, Tractors
- 3) By Application: Automotive, Aerospace And Defense, Security And Surveillance, Traffic Monitoring And Management

Subsegments:

- 1) By Short Range Radar: Automotive Short Range Radar, Industrial Short Range Radar, Security and Surveillance Short Range Radar
- 2) By Medium And Long Range Radar: Automotive Medium And Long Range Radar, Aerospace And Defense Radar Systems, Maritime Radar Systems, Weather Monitoring Radar Systems

View the full four dimensional (4d) imaging radar market report:

<https://www.thebusinessresearchcompany.com/report/four-dimensional-4d-imaging-radar-global-market-report>

Which Is The Dominating Region For The Four Dimensional (4D) Imaging Radar Market?

In the Four Dimensional (4D) Imaging Radar Global Market Report 2025, North America is outlined as the leading region for the specified year, with a projected growth status. The report encompasses regions including North America, Asia-Pacific, Western Europe, Eastern Europe, South America, the Middle East, and Africa.

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