

4D Imaging Radar Market by Range (Short-Range, Medium-Range, Long-Range), Application (ADAS, Security & Surveillance, Patient Diagnostic & Monitoring, End User (Automotive, Aerospace & Defense, Healthcare, Industrial) - Global Forecast to 2030

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Abstracts

The 4D imaging radar market is estimated to be USD 392.8 million in 2025 and is estimated to reach USD 1,206.9 million by 2030, at a CAGR of 25.2% between 2025 and 2030. The market is driven by the growing integration of radar into multi-sensor systems, which enhances object detection, tracking, and decision-making in autonomous vehicles. Advancements in sensor fusion are significantly improving road safety by providing reliable performance in challenging conditions like fog or darkness, where traditional sensors may fail. Additionally, increasing regulatory support and investments in intelligent transport systems are accelerating adoption, as 4D imaging radar delivers the precision and reliability needed for safer mobility solutions.

'Security & surveillance application to register highest CAGR during the forecast period.'

4D imaging radar is increasingly being adopted across a broad spectrum of security and surveillance applications due to its superior ability to detect, track, and classify objects in complex and dynamic environments. 4D imaging radar operates reliably in poor visibility conditions such as fog, rain, snow, or complete darkness, making it ideal for 24/7 monitoring. It is used in perimeter security for border control, defense bases, and critical infrastructure such as power stations, airports, and data centers, where early threat detection and situational awareness are crucial. In urban environments, it is integrated into smart city surveillance networks to monitor traffic patterns, identify

suspicious activities, and manage crowd control during events. Furthermore, mobile surveillance systems, including those in patrol vehicles and unmanned ground or aerial vehicles (UGVs/UAVs), use 4D radar to maintain real-time awareness during tactical or emergency operations. Its ability to track objects with precise location and motion data enables faster and more accurate decision-making for security personnel. Rising global security concerns, including terrorism, cross-border intrusions, and increasing incidents of critical infrastructure attacks, are prompting governments and private sectors to invest heavily in next-generation surveillance technologies.

'Asia Pacific is expected to witness high CAGR in 4D imaging radar market during the forecast period.'

The Asia Pacific region is experiencing robust growth in the 4D imaging radar market, primarily due to the rapid expansion of its automotive sector and increasing investments in autonomous driving technologies. Leading automakers such as Toyota (Japan), Hyundai (South Korea), BYD (China), and NIO (China) are actively incorporating 4D imaging radar in their vehicles to enhance safety, situational awareness, and automated driving capabilities. For instance, BYD's integration of advanced driver-assistance systems (ADAS) in its electric vehicles, backed by government policies promoting clean and intelligent mobility, exemplifies the shift toward radar-based solutions. Additionally, India's growing automotive market, with rising consumer demand for smart vehicles and safety features, is pushing manufacturers to adopt 4D radar for features like Adaptive Cruise Control and Automatic Emergency Braking. This is further supported by a growing middle-class population and increasing disposable income, making ADAS-equipped vehicles more accessible. Furthermore, smart city projects across the region aim to incorporate intelligent traffic management systems, where 4D imaging radar is critical in enabling vehicle-to-infrastructure communication, crowd detection, and accident prevention. This regulatory environment not only mandates safety but also stimulates demand for radar sensors in both public and private transportation systems.

Extensive primary interviews were conducted with key industry experts in the 4D imaging radar market space to determine and verify the market size for various segments and subsegments gathered through secondary research. The break-up of primary participants for the report has been shown below:

The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1–20%, Tier 2–35%, and Tier 3–45%

By Designation: Managers–20%, Directors–30%, and Others–50%

By Region: North America–30%, Europe–20%, Asia Pacific–40%, and RoW–10%

The report profiles key players in the 4D imaging radar market with their respective market ranking analysis. Prominent players profiled in this report are Texas Instruments Incorporated (US), NXP Semiconductors (Netherlands), Infineon Technologies AG (Germany), Robert Bosch GmbH (Germany), Mobileye (Israel), Vayyar (Israel), Uhnder (US), Arbe (Israel), Thales (France), Continental AG (Germany), Magna International Inc. (Canada), Einstein (US), and CUBTEK INC. (Taiwan), among others.

Apart from this, Ambarella International LP. (US), Greenerwave (France), Aptiv (US), Elbit Systems Ltd. (Israel), Valeo (France), Sensrad (Sweden), Echodyne Corp. (US), Conqueri (US), Altos Radar (US), Renesas Electronics Corporation (Japan), Smart Radar System Inc. (South Korea), Muye Microelectronics (China), bitsensing Inc. (South Korea), and Calterah Semiconductor Technology (Shanghai) Co., Ltd. (China) are among the few other companies in the 4D imaging radar market.

Research Coverage:

This research report categorizes the 4D imaging radar market based on range, application, end user, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the 4D imaging radar market and forecasts the same till 2030. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the 4D imaging radar ecosystem.

Key Benefits of Buying the Report

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall 4D imaging radar market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing demand for Autonomous driving and advanced driver assistance systems (ADAS), Rising need for safety and smart sensing in industrial and infrastructure applications, Limitations of LiDAR and camera systems in harsh environments, and advancements in radar technology) influencing the growth of the 4D imaging radar market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the 4D imaging radar market

Market Development: Comprehensive information about lucrative markets – the report analyzes the 4D imaging radar market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the 4D imaging radar market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, such as Texas Instruments Incorporated (US), NXP Semiconductors (Netherlands), Infineon Technologies AG (Germany), Robert Bosch GmbH (Germany), and Mobileye (Israel), in the 4D imaging radar market

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