

Pre-Collision Technology Market - Opportunities, Share, Growth and Competitive Analysis and Forecast 2029

The Business Research Company's Pre-Collision Technology Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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Pre-Collision Technology Global Market Report 2025

What Is The Forecast For The [Pre-Collision Technology Market](#) From 2024 To 2029?

The market size for pre-collision technology has been on a robust uptrend in the past few years.

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It's projected to escalate from \$56.56 billion in 2024 to \$62.15 billion in 2025, with a compound annual growth rate (CAGR) of 9.9%. This expansion during the historical period is credited to the surge in popularity of forward collision warnings, automatic emergency braking, lane departure warnings, blind spot detection, and collision avoidance systems.

Expectations indicate that the pre-collision technology market will undergo significant expansion in the coming years. By 2029, the projected value of the market is \$86.75

billion, reaching this figure with a Compound Annual Growth Rate (CAGR) of 8.7%. The surge during this forecast period can be credited to advancements in areas like connected vehicles and driver-assistance systems, vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication, and the electrification and lightweighting of autonomous vehicles. Noteworthy trends expected during this forecast period encompass improved sensor fusion, AI-aided collision prediction, detection of pedestrians and cyclists, the integration of adaptive cruise control, and ongoing updates and enhancements to the software.

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What Are The Core Growth Drivers Shaping The Future Of The Pre-Collision Technology Market?

The escalation in the need for self-driving vehicles is projected to drive the expansion of the pre-collision technology market. An autonomous vehicle, or a car that can navigate without human input by perceiving its environment, uses pre-collision technology to detect and lessen potential collisions. It accomplishes this through the use of cameras, sensors, radar, and software to enhance safety and prevent accidents. For example, as per the Insurance Institute for Highway Safety, a US-based independent, non-commercial scientific and tutorial organization, approximately 3.5 million autonomous vehicles are predicted to be operational on US roads by 2025, and 4.5 million by 2030. Moreover, it's projected that 75% of vehicles worldwide will be autonomous by 2040. Therefore, the surge in the need for self-driving vehicles is fueling the growth of the pre-collision technology market.

Which Companies Are Currently Leading In The Pre-Collision Technology Market?

Major players in the Pre-Collision Technology include:

- Toyota Motor Corporation
- Robert Bosch GmbH
- Siemens AG
- General Electric Company
- Hitachi Automotive Systems
- Panasonic Corporation
- Denso Corporation
- Qualcomm Technologies Inc.
- ZF Friedrichshafen AG
- Continental AG

What Are The Key Trends And Market Opportunities In The Pre-Collision Technology Sector?

Major players in the pre-collision tech market are concentrating their efforts on the production and enhancement of technologically advanced tools, such as collision avoidance systems, to increase their market dominance. A collision avoidance system is a safety device designed to either entirely prevent or significantly reduce the impact of a collision. One key example is that in June 2023, Wabtec Corporation, an American firm that delivers equipment, systems and digital solutions, introduced the Generation 3 Collision Avoidance System (CAS). This updated system features a new, simplistic and intuitive user interface, as well as context-based voice alerts developed following the latest human factor design principles. It substitutes analog ""beeps and buzzers"" technology with intelligent, discreet, directed and auditory alerts, allowing operators to work undistracted and react instantly to sound notifications. This innovative system is set to enhance both safety and productivity, while also offering the latest performance standards through its regulatory and intelligence features.

Comparative Analysis Of Leading [Pre-Collision Technology Market Segments](#)

The pre-collision technology market covered in this report is segmented –

- 1) By Product: Parking Assistance, Lane Departure Warning System (LDWS), Autonomous Emergency Braking (AEB), Adaptive Cruise Control (ACC), Other Products
- 2) By Technology: Camera, Ultrasonic, Radio Detection And Ranging (RADAR), Light Detection And Ranging (LiDAR), Other Technologies
- 3) By Application: Automotive, Aviation, Railway, Mining, Marine, Other Applications

Subsegments:

- 1) By Parking Assistance: Rear Parking Sensors, Front Parking Sensors, 360-Degree Camera Systems
- 2) By Lane Departure Warning System (LDWS): Lane Keeping Assist, Lane Departure Prevention
- 3) By Autonomous Emergency Braking (AEB): Forward Collision Warning (FCW), Automatic Emergency Braking (AEB) With Pedestrian Detection
- 4) By Adaptive Cruise Control (ACC): Standard Adaptive Cruise Control, Dynamic Radar Cruise Control
- 5) By Other Products: Blind Spot Detection Systems, Cross Traffic Alert Systems

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Which Regions Are Dominating The Pre-Collision Technology Market Landscape?

In 2024, North America dominated the pre-collision technology market. However, in the forecast period, Asia-Pacific is predicted to experience the highest growth rate. The report on the pre-collision technology market includes Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: saumyas@tbrc.info

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Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

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