

Global Collision Avoidance Technology Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Collision Avoidance Technology market size is expected to reach \$ 28155 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

Collision Avoidance Technology is a family of active safety systems installed in passenger cars, commercial vehicles, and specialized mobile equipment. It is typically composed of a forward-facing camera module, millimeter-wave radar, LiDAR, ultrasonic sensors, positioning and inertial units, a domain controller, brake actuators, and human-machine interface units. In physical form, it usually appears as a camera module mounted behind the windshield, radar sensors integrated into the front or rear bumper or grille, ultrasonic probes distributed around the vehicle body, and warning interfaces in the cockpit. Structurally, it consists of a perception layer, a sensor-fusion and computing layer, a decision-and-control layer, and an actuation layer. By function, it includes forward collision warning, automatic emergency braking, blind-spot monitoring, rear cross-traffic alert, lane departure correction, intersection collision avoidance, and pedestrian and cyclist protection. Its operating principle is to detect the distance, speed, direction, and motion trend of surrounding targets in real time, estimate time-to-collision and risk level, and then avoid crashes or mitigate injuries through warning, brake pre-charging, autonomous braking, or steering assistance. It is widely used in passenger vehicles, trucks, buses, construction machinery, mining vehicles, warehouse robots, and intelligent delivery equipment.

Collision Avoidance Technology is evolving from a standalone safety feature into a core foundational capability within the intelligent vehicle value stack. Its development opportunity is being shaped by the convergence of regulation, consumer safety expectations, and the upgrading of vehicle electronic and electrical architectures. In the

United States, FMVSS No. 127 has established a mandatory framework around automatic emergency braking, pedestrian automatic emergency braking, and forward collision warning, while European safety assessment systems continue to tighten expectations for crash avoidance, vulnerable road user detection, and real-world scenario performance. As a result, collision avoidance is no longer merely a brand-enhancing option; in a growing number of markets, it is becoming a layered capability tied to market access, safety ratings, and vehicle platform competitiveness. At the same time, software-defined vehicle architectures are enabling deeper integration of sensors, algorithms, domain controllers, and brake actuation, turning collision avoidance from a single functional module into a long-cycle software service entry point. This creates durable value through hardware pre-installation, software upgrades, data feedback loops, and feature monetization. For automakers, those who industrialize collision avoidance as a reusable, verifiable, and scalable systems capability will be better positioned to capture advantages in safety reputation, pricing power, and global certification efficiency. That said, the challenges in this market are equally significant. The true difficulty in collision avoidance does not lie in whether an object can be detected, but in whether the system can detect and respond correctly under complex edge conditions. Night driving, glare, rain, snow, fog, occlusion, irregular targets, work zones, dense urban intersections, and high-speed cut-in scenarios continue to test perception accuracy, fusion robustness, braking consistency, and functional safety design. IIHS findings and related research indicate that some current systems still show meaningful room for improvement in nighttime pedestrian recognition and other demanding environments, confirming that the industry remains in a critical transition from functional availability to scenario-level trustworthiness. Meanwhile, the supply chain faces additional pressures related to cost discipline, sensor and chip selection, fragmented regulations, liability boundaries, and longer validation cycles. For investors and industry decision-makers, the most defensible companies will not simply be those with a single sensor advantage or one strong algorithm, but those able to connect regulatory know-how, system integration, algorithm iteration, validation engineering, mass-production delivery, and post-sale data operations into a unified cross-regional capability with durable compliance strength. From the demand side, Collision Avoidance Technology is moving beyond premium vehicle differentiation and into broader deployment across passenger vehicles, commercial vehicles, and specialized mobile equipment, while demand is expanding from forward crash prevention toward full-scenario risk avoidance. In passenger vehicles, demand is increasingly centered on low-speed urban complexity, nighttime protection for vulnerable road users, intersection risk management, and integrated user experiences that connect collision avoidance with navigation, parking, and in-cabin monitoring. In commercial vehicles and fleet operations, the emphasis is stronger on accident prevention, insurance optimization,

driver behavior management, regulatory compliance, and total cost of ownership improvement, which is driving demand for connected, traceable, and operationally manageable factory-installed and retrofit systems. As vehicle E/E architectures become more centralized and central computing platforms gain adoption, collision avoidance functions will increasingly serve as the foundation for higher-level driver assistance capabilities. This will shift cooperation among Tier 1 suppliers, chipmakers, algorithm companies, and OEMs from component procurement to joint definition, co-development, and continuous OTA-based operation. Looking ahead, the competitive question will no longer be who can deliver a single collision avoidance system once, but who can convert safety capability into brand trust, fleet productivity, and software lifecycle value, and then deliver that promise consistently across regulatory regimes and real-world scenarios worldwide.

This report studies the global Collision Avoidance Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Collision Avoidance Technology, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Collision Avoidance Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Collision Avoidance Technology total market, 2021-2032, (USD Million)

Global Collision Avoidance Technology total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Collision Avoidance Technology total market, key domestic companies, and share, (USD Million)

Global Collision Avoidance Technology revenue by player, revenue and market share 2021-2026, (USD Million)

Global Collision Avoidance Technology total market by Type, CAGR, 2021-2032, (USD Million)

Global Collision Avoidance Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Collision Avoidance Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, Toyota, Ford, Renault Group, ZF, DENSO, Continental,

Hyundai Mobis, Magna, Aptiv, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Collision Avoidance Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Collision Avoidance Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Collision Avoidance Technology Market, Segmentation by Type:

ACC

BSD

FCW

LDWS

Global Collision Avoidance Technology Market, Segmentation by Primary Sensor Modality:

Camera-based Collision Avoidance Technology

Millimeter-wave Radar-based Collision Avoidance Technology

LiDAR-based Collision Avoidance Technology

Ultrasonic-based Collision Avoidance Technology

Infrared-based Collision Avoidance Technology

V2X-based Collision Avoidance Technology

Multi-sensor Fusion Collision Avoidance Technology

Global Collision Avoidance Technology Market, Segmentation by Installation Position:

Front-mounted Collision Avoidance Technology

Rear-mounted Collision Avoidance Technology

Side-mounted Collision Avoidance Technology

Roof-mounted Collision Avoidance Technology

Cabin-mounted Collision Avoidance Technology

Surround-mounted Collision Avoidance Technology

Global Collision Avoidance Technology Market, Segmentation by System Integration Level:

Component-level Collision Avoidance Product

Sensor Module-level Collision Avoidance Product

ECU-level Collision Avoidance Product

Subsystem-level Collision Avoidance Product

Vehicle-level Collision Avoidance System

Platform-level Collision Avoidance System

Global Collision Avoidance Technology Market, Segmentation by Application:

OEM

Aftermarket

Companies Profiled:

Bosch

Toyota

Ford

Renault Group

ZF

DENSO

Continental

Hyundai Mobis

Magna

Aptiv

Valeo

Autoliv

Astemo

Sensata

Ficosa

Aumovio

Subaru

Key Questions Answered

1. How big is the global Collision Avoidance Technology market?
2. What is the demand of the global Collision Avoidance Technology market?
3. What is the year over year growth of the global Collision Avoidance Technology market?
4. What is the total value of the global Collision Avoidance Technology market?
5. Who are the Major Players in the global Collision Avoidance Technology market?
6. What are the growth factors driving the market demand?

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