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Global Anti-collision System Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G413A4C4A910EN.html
Date: June 2026
Pages: 144
Price: US$ 4,480.00 (Single User License)
ID: G413A4C4A910EN

Abstracts

The global Anti-collision System market size is expected to reach $ 116564 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Collision avoidance systems generally refer to a class of automotive safety technologies centered on environmental perception, risk identification, warning logic, decision-making, and active intervention. Their purpose is not merely to mitigate damage after a crash has occurred, but to detect hazards as early as possible before impact, alert the driver, and, when necessary, intervene through automatic braking, steering support, or powertrain control in order to prevent a collision or reduce its severity. In industrial terms, these systems are no longer isolated standalone components, but have evolved into integrated system architectures composed of cameras, millimeter-wave radar, ultrasonic sensors, domain controllers, software algorithms, actuators, and supporting frameworks for functional safety and data compliance. In application terms, their capabilities are expanding from traditional forward rear-end collision protection toward more complex scenarios involving pedestrians, cyclists, intersections, nighttime vulnerable road users, reversing operations, and commercial vehicle blind spots. UNECE Regulation No. 152 has established a unified regulatory framework for AEBS in passenger cars and light commercial vehicles. Japan?s Ministry of Land, Infrastructure, Transport and Tourism has incorporated collision damage mitigation braking into the mandatory pathway for new vehicles. The European Union?s General Safety Regulation has progressively expanded mandatory advanced driver-assistance requirements, while the U.S. National Highway Traffic Safety Administration finalized a mandatory rule for light-vehicle automatic emergency braking in 2024. These developments indicate that collision avoidance systems are shifting from being optional safety features to becoming a convergence point of regulatory capability, brand competitiveness, and vehicle platform capability.

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Market Development Opportunities & Main Driving Factors The core opportunity in the collision avoidance systems market stems first from the changing logic of regulation. Europe, the United States, and Japan are moving technologies such as automatic emergency braking, lane-keeping support, and vulnerable road user protection from encouraged adoption toward formal entry requirements and evaluation criteria. This means that automakers seeking access to mainstream markets, maintenance of safety ratings, and preservation of brand credibility must embed collision avoidance capability at the platform development stage rather than adding it at the end of the vehicle program. A second major driver is the technological shift from single-sensor solutions toward multi-sensor fusion and software-defined architectures. Bosch has explicitly positioned automatic emergency braking, vulnerable road user AEB, and related hardware-software capabilities within its ADAS portfolio. ZF has emphasized that its commercial vehicle safety solutions are being deployed both to meet existing regulatory requirements and to extend toward higher-order active safety functions. Mobileye has continued to promote platform-based solutions centered on surround ADAS and advanced collision avoidance. Together, these developments indicate that industry value is moving beyond hardware sales toward a composite value chain built on sensors, computing power, algorithms, and continuous software enhancement. At the same time, automakers increasingly regard active safety performance as a visible selling point in intelligent vehicle competition, while markets such as China are strengthening policy support through pilot programs and certification pathways for intelligent connected vehicles. This is creating a reinforcing cycle between policy direction and product innovation.

Market Challenges, Risks, & Restraints The most critical challenge facing collision avoidance systems lies not in whether the technology can be installed, but in whether it can operate reliably and credibly across complex real-world scenarios. Research and testing by the Insurance Institute for Highway Safety have shown that system performance can vary significantly in nighttime pedestrian scenarios, under changing illumination conditions, and in cases of limited pedestrian visibility. Bosch has likewise emphasized in its official materials that the ability to identify partially obscured pedestrians and cyclists in complex urban traffic remains a key priority for improving AEB reliability. This highlights a clear engineering gap between regulatory compliance and real-world robustness. Meanwhile, regulatory thresholds themselves are rising. The U.S. final rule issued in 2024 covers not only AEB but also pedestrian AEB and forward collision warning, while the European framework has further expanded its technical focus toward pedestrian and cyclist collision scenarios. For the supply chain, this raises systemic pressures in sensor capability, software validation, functional safety,

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cybersecurity, data compliance, and liability allocation. For automakers, aggressive marketing of advanced driver-assistance functions without clearly defining system boundaries may create compliance exposure, recall risk, litigation pressure, and brand trust erosion. Industry petitions and legal challenges around the U.S. AEB rule also demonstrate that technical feasibility, cost absorption, and regulatory timing remain in tension, reinforcing the fact that market growth will not be linear and that barriers to entry are structurally rising.

Downstream Demand Trends Downstream demand is clearly extending from passenger vehicle front-end rear-end collision protection toward broader operating scenarios and more complex road environments. In the passenger vehicle market, collision avoidance systems are increasingly viewed as foundational capabilities within the intelligent driving experience. Market expectations are shifting from whether a vehicle has AEB to whether it can address higher-risk conditions such as nighttime pedestrians, cyclists, intersections, and low-adhesion surfaces. Euro NCAP?s 2026 protocol changes continue to reinforce dimensions such as safe driving and crash avoidance, indicating that evaluation systems are increasingly rewarding broader real-world scenario coverage. In commercial vehicles, buses, and urban delivery fleets, demand is even more rigid because of high operating frequency, heavier accident responsibility, and more complicated blind-spot and turning-conflict scenarios. ZF has therefore placed emergency braking, blind-spot warning, and automatic reversing brake assist among its key commercial vehicle safety technologies. At the same time, intelligent connected vehicle and autonomous driving pilot programs are elevating collision avoidance systems from auxiliary driving modules to entry-level safety foundations. China?s institutional framework for vehicle access and road-use pilots makes product testing, safety assessment, geographically limited operation, and emergency response part of an integrated management loop. As a result, whether the target is higher-level assisted driving or future Level 3 and Level 4 deployment, collision avoidance systems are increasingly becoming a necessary safety base for commercial introduction.

Regional Trends The North American market is characterized by the dual force of federal regulation and independent safety evaluation. The U.S. National Highway Traffic Safety Administration finalized its light-vehicle AEB rule in 2024 and incorporated pedestrian scenarios into the requirement, meaning that automakers must now build products around regulatory consistency and legal auditability. At the same time, IIHS continues to push improvement in real-world performance through more demanding nighttime pedestrian testing. Europe, by contrast, is driven more by the combination of mandatory regulation, rating-system leverage, and strong emphasis on vulnerable road user protection. The General Safety Regulation has already widened the mandatory

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adoption of advanced safety functions across vehicles sold in the European Union, while Euro NCAP?s 2026 protocol continues to strengthen pre-crash prevention and driver engagement dimensions. This makes Europe a likely lead market for the launch and calibration of higher-specification active safety functions. China and the broader Asia-Pacific region show a different pattern, combining policy pilots, intelligent vehicle competition, and rapid coordination within local supply chains. China is advancing intelligent connected vehicle access and road-use pilots while also promoting certification systems, whereas Japan established an earlier mandatory path for collision mitigation braking in passenger vehicles and continues to tighten AEBS requirements for larger vehicles. Other regions are more likely to follow UNECE and European frameworks gradually, with adoption speed depending on local certification systems, road conditions, and cost tolerance. As a result, the global market is unlikely to converge uniformly. Instead, it is more likely to develop through a gradient structure in which high-standard regions define capability benchmarks first and other regions selectively follow.

Latest Developments On April 29, 2024, the U.S. National Highway Traffic Safety Administration issued its final rule for light-vehicle automatic emergency braking, establishing FMVSS No. 127 and requiring future passenger cars and light trucks to be equipped with automatic emergency braking, pedestrian automatic emergency braking, and forward collision warning. This marked a transition in the United States from voluntary industry deployment toward federally mandated performance standards for active safety. On July 7, 2024, a new phase of the European Union?s General Safety Regulation took effect for all new vehicles sold in the EU. According to official explanations, the framework broadened mandatory requirements for advanced safety features such as advanced emergency braking, lane-keeping support, and driver attention monitoring. In June 2024, four Chinese government authorities announced the first batch of pilot consortia for intelligent connected vehicle market access and road-use authorization. Official interpretations and related reporting indicate that the pilots would be conducted in cities such as Beijing, Shanghai, and Guangzhou and would cover passenger vehicles, buses, and trucks, demonstrating that China is moving intelligent connected vehicle safety capability from testing and validation toward market access and commercialization-oriented governance. On March 25, 2025, Mobileye published an official article presenting Surround ADAS as an advanced collision avoidance and hands-off highway driving solution designed for broader vehicle platforms. In January 2026, Mobileye further disclosed a new program with a major U.S. automaker, suggesting that vehicle manufacturers are accelerating the platform-level deployment of higher-grade active safety capabilities through strategic collaboration.

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This report studies the global Anti-collision System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Anti-collision System, 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 Anti-collision System that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Anti-collision System total market, 2021-2032, (USD Million)
Global Anti-collision System total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: Anti-collision System total market, key domestic companies, and share, (USD Million)
Global Anti-collision System revenue by player, revenue and market share 2021-2026, (USD Million)
Global Anti-collision System total market by Type, CAGR, 2021-2032, (USD Million)
Global Anti-collision System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Anti-collision System 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 Desay SV, Aisin, Aptiv, AUMOVIO, Bendix, Bosch, DENSO, Ficosa, Hitachi Astemo, HL Klemove, 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 Anti-collision System 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.

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Global Anti-collision System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Anti-collision System Market, Segmentation by Type:

Collision Warning System

Automatic Emergency Braking System

Multi-Function Integrated Anti-Collision System

Blind Spot Collision Prevention System

Parking Collision Prevention System

Global Anti-collision System Market, Segmentation by Sensing Technology:

RContact Detection Anti-Collision System

Vision-Based Anti-Collision System

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LiDAR-Based Anti-Collision System

Ultrasonic-Based Anti-Collision System

Infrared-Based Anti-Collision System

Global Anti-collision System Market, Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

Rail Transit

Construction Machinery

Warehouse Logistics Equipment

Others

Companies Profiled:

Desay SV

Aisin

Aptiv

AUMOVIO

Bendix

Bosch

DENSO

Ficosa

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Hitachi Astemo

HL Klemove

Hyundai Mobis

Knorr-Bremse

Magna

Panasonic Automotive Systems

Valeo

ZF

Key Questions Answered

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

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