

# **Global Collision Avoidance System Market Size study & Forecast, by Technology (Radar, Camera, Ultrasound, LiDAR) by Application (ACC, BSD, FCWS, LDWS, Parking Assistance) and Regional Forecasts 2025-2035**

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## **Abstracts**

The Global Collision Avoidance System Market is valued at approximately USD 82.9 billion in 2024 and is anticipated to grow at a robust CAGR of 11.40% over the forecast period of 2025-2035. A collision avoidance system represents a suite of advanced safety technologies meticulously engineered to prevent or mitigate accidents by detecting potential hazards and alerting drivers—or autonomously taking corrective actions. This system, often integrated into modern vehicles, leverages a combination of radar, camera, ultrasound, and LiDAR technologies to create a 360-degree awareness field, thereby enhancing situational intelligence. The surge in vehicle electrification, rising global focus on road safety, and tightening automotive safety regulations have collectively accelerated market expansion. Increasing integration of advanced driver assistance systems (ADAS) into both luxury and mid-segment vehicles further underscores the growing influence of collision avoidance technologies in redefining transportation safety standards worldwide.

The adoption of collision avoidance systems has gained unprecedented momentum as automotive manufacturers pivot toward fully autonomous and semi-autonomous vehicles. This transition is largely driven by a broader industrial movement toward intelligent mobility and sustainability. According to the World Health Organization (WHO), over 1.3 million people lose their lives each year due to road traffic crashes, emphasizing the urgent necessity of deploying active safety systems that minimize human error—the primary cause of accidents. Moreover, the proliferation of smart infrastructure, coupled with government mandates enforcing vehicle safety compliance,

has substantially bolstered market growth. For instance, regions such as Europe and North America have already made automatic emergency braking (AEB) and lane departure warning systems mandatory in new vehicle models. However, despite rapid technological advancement, the market faces certain constraints such as high implementation costs and system calibration complexities in low-visibility environments. Nonetheless, ongoing innovation in sensor fusion and AI-based predictive analytics continues to open lucrative pathways for manufacturers, particularly in emerging automotive markets.

The detailed segments and sub-segments included in the report are:

By Technology:

Radar

Camera

Ultrasound

LiDAR

By Application:

Adaptive Cruise Control (ACC)

Blind Spot Detection (BSD)

Forward Collision Warning System (FCWS)

Lane Departure Warning System (LDWS)

Parking Assistance

By Region:

North America

U.S.

Canada

## Europe

UK

Germany

France

Spain

Italy

Rest of Europe

## Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

## Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

## Radar Technology is Expected to Dominate the Market

Radar technology remains the backbone of modern collision avoidance systems, commanding the largest share of the market owing to its reliability, accuracy, and all-weather functionality. The segment's dominance is rooted in radar's unparalleled ability to detect objects at long ranges and through challenging environmental conditions such as fog, dust, and rain. Automotive manufacturers are increasingly integrating mid- and long-range radar modules into vehicles to enhance adaptive cruise control and blind-spot detection capabilities. Additionally, cost efficiency and scalability make radar a preferred choice across vehicle classes—from compact cars to heavy-duty trucks. Although LiDAR and camera-based systems are evolving rapidly, radar's maturity and compatibility with existing vehicle architectures ensure its continued supremacy in both OEM and aftermarket installations. As technological convergence accelerates, radar-based systems are expected to remain indispensable to achieving Level 3 and Level 4 autonomy.

## Adaptive Cruise Control Leads in Revenue Contribution

Among the various applications, Adaptive Cruise Control (ACC) stands out as the top revenue-generating segment, commanding significant adoption across passenger and commercial vehicles alike. ACC systems leverage radar and camera sensors to automatically adjust vehicle speed, maintaining safe distances from surrounding traffic while reducing driver fatigue during long-distance travel. The growing consumer preference for comfort and convenience, combined with increasing regulatory push toward integrating driver assistance features, has reinforced ACC's leadership in the

global market. Meanwhile, Forward Collision Warning Systems (FCWS) and Blind Spot Detection (BSD) are witnessing accelerated growth, driven by heightened awareness of safety benefits and the penetration of these technologies into mid-range and economy vehicles. As automotive OEMs progressively transition toward comprehensive safety ecosystems, ACC continues to anchor the value chain, serving as the foundational layer for advanced autonomous driving functionalities.

The key regions considered for the Global Collision Avoidance System Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. Among these, Asia Pacific is poised to emerge as the fastest-growing regional market during the forecast period. This acceleration is largely attributed to the rapid expansion of the automotive industry in China, Japan, South Korea, and India, coupled with rising consumer demand for technologically sophisticated yet affordable vehicles. Increasing safety awareness, coupled with supportive government initiatives promoting intelligent transportation systems, has further stimulated adoption. North America dominates in terms of market share, propelled by stringent safety mandates, high consumer acceptance of driver-assist technologies, and the strong presence of leading ADAS manufacturers. Meanwhile, Europe maintains steady growth, bolstered by its robust regulatory framework and accelerating transition toward autonomous mobility. Latin America and the Middle East are gradually catching up, supported by growing investments in connected vehicle infrastructure and fleet modernization efforts.

Major market players included in this report are:

Robert Bosch GmbH

Denso Corporation

Continental AG

Magna International Inc.

ZF Friedrichshafen AG

Autoliv Inc.

Mobileye N.V. (Intel Corporation)

Hyundai Mobis Co., Ltd.

Aptiv PLC

Valeo SA

Panasonic Corporation

Texas Instruments Incorporated

WABCO Holdings Inc.

NXP Semiconductors N.V.

Infineon Technologies AG

#### Global Collision Avoidance System Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial

aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

#### Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL COLLISION AVOIDANCE SYSTEM MARKET REPORT SCOPE & METHODOLOGY**

- 1.1. Research Objective
- 1.2. Research Methodology
  - 1.2.1. Forecast Model
  - 1.2.2. Desk Research
  - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
  - 1.4.1. Market Definition
  - 1.4.2. Market Segmentation
- 1.5. Research Assumption
  - 1.5.1. Inclusion & Exclusion
  - 1.5.2. Limitations
  - 1.5.3. Years Considered for the Study

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. key Findings

### **CHAPTER 3. GLOBAL COLLISION AVOIDANCE SYSTEM MARKET FORCES ANALYSIS**

- 3.1. Market Forces Shaping The Global Collision Avoidance System Market (2024-2035)
- 3.2. Drivers
  - 3.2.1. surge in vehicle electrification
  - 3.2.2. rising global focus on road safety
- 3.3. Restraints
  - 3.3.1. high implementation costs and system calibration complexities
- 3.4. Opportunities
  - 3.4.1. adoption of collision avoidance systems

## **CHAPTER 4. GLOBAL COLLISION AVOIDANCE SYSTEM INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Forces Model
  - 4.1.1. Bargaining Power of Buyer
  - 4.1.2. Bargaining Power of Supplier
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024-2035)
- 4.3. PESTEL Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
  - 4.3.5. Environmental
  - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024-2025)
- 4.7. Global Pricing Analysis And Trends 2025
- 4.8. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL COLLISION AVOIDANCE SYSTEM MARKET SIZE & FORECASTS BY TECHNOLOGY 2025-2035**

- 5.1. Market Overview
- 5.2. Global Collision Avoidance System Market Performance - Potential Analysis (2025)
- 5.3. Radar
  - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.3.2. Market size analysis, by region, 2025-2035
- 5.4. Camera
  - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.4.2. Market size analysis, by region, 2025-2035
- 5.5. Ultrasound
  - 5.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.5.2. Market size analysis, by region, 2025-2035
- 5.6. LiDAR
  - 5.6.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.6.2. Market size analysis, by region, 2025-2035

## **CHAPTER 6. GLOBAL COLLISION AVOIDANCE SYSTEM MARKET SIZE & FORECASTS BY APPLICATION 2025-2035**

### 6.1. Market Overview

### 6.2. Global Collision Avoidance System Market Performance - Potential Analysis (2025)

### 6.3. Adaptive Cruise Control (ACC)

#### 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035

#### 6.3.2. Market size analysis, by region, 2025-2035

### 6.4. Blind Spot Detection (BSD)

#### 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035

#### 6.4.2. Market size analysis, by region, 2025-2035

### 6.5. Forward Collision Warning System (FCWS)

#### 6.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035

#### 6.5.2. Market size analysis, by region, 2025-2035

### 6.6. Lane Departure Warning System (LDWS)

#### 6.6.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035

#### 6.6.2. Market size analysis, by region, 2025-2035

### 6.7. Parking Assistance

#### 6.7.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035

#### 6.7.2. Market size analysis, by region, 2025-2035

## **CHAPTER 7. GLOBAL COLLISION AVOIDANCE SYSTEM MARKET SIZE & FORECASTS BY REGION 2025–2035**

### 7.1. Growth Collision Avoidance System Market, Regional Market Snapshot

### 7.2. Top Leading & Emerging Countries

### 7.3. North America Collision Avoidance System Market

#### 7.3.1. U.S. Collision Avoidance System Market

##### 7.3.1.1. Technology breakdown size & forecasts, 2025-2035

##### 7.3.1.2. Application breakdown size & forecasts, 2025-2035

#### 7.3.2. Canada Collision Avoidance System Market

##### 7.3.2.1. Technology breakdown size & forecasts, 2025-2035

##### 7.3.2.2. Application breakdown size & forecasts, 2025-2035

### 7.4. Europe Collision Avoidance System Market

#### 7.4.1. UK Collision Avoidance System Market

##### 7.4.1.1. Technology breakdown size & forecasts, 2025-2035

##### 7.4.1.2. Application breakdown size & forecasts, 2025-2035

#### 7.4.2. Germany Collision Avoidance System Market

- 7.4.2.1. Technology breakdown size & forecasts, 2025-2035
- 7.4.2.2. Application breakdown size & forecasts, 2025-2035
- 7.4.3. France Collision Avoidance System Market
  - 7.4.3.1. Technology breakdown size & forecasts, 2025-2035
  - 7.4.3.2. Application breakdown size & forecasts, 2025-2035
- 7.4.4. Spain Collision Avoidance System Market
  - 7.4.4.1. Technology breakdown size & forecasts, 2025-2035
  - 7.4.4.2. Application breakdown size & forecasts, 2025-2035
- 7.4.5. Italy Collision Avoidance System Market
  - 7.4.5.1. Technology breakdown size & forecasts, 2025-2035
  - 7.4.5.2. Application breakdown size & forecasts, 2025-2035
- 7.4.6. Rest of Europe Collision Avoidance System Market
  - 7.4.6.1. Technology breakdown size & forecasts, 2025-2035
  - 7.4.6.2. Application breakdown size & forecasts, 2025-2035
- 7.5. Asia Pacific Collision Avoidance System Market
  - 7.5.1. China Collision Avoidance System Market
    - 7.5.1.1. Technology breakdown size & forecasts, 2025-2035
    - 7.5.1.2. Application breakdown size & forecasts, 2025-2035
  - 7.5.2. India Collision Avoidance System Market
    - 7.5.2.1. Technology breakdown size & forecasts, 2025-2035
    - 7.5.2.2. Application breakdown size & forecasts, 2025-2035
  - 7.5.3. Japan Collision Avoidance System Market
    - 7.5.3.1. Technology breakdown size & forecasts, 2025-2035
    - 7.5.3.2. Application breakdown size & forecasts, 2025-2035
  - 7.5.4. Australia Collision Avoidance System Market
    - 7.5.4.1. Technology breakdown size & forecasts, 2025-2035
    - 7.5.4.2. Application breakdown size & forecasts, 2025-2035
  - 7.5.5. South Korea Collision Avoidance System Market
    - 7.5.5.1. Technology breakdown size & forecasts, 2025-2035
    - 7.5.5.2. Application breakdown size & forecasts, 2025-2035
  - 7.5.6. Rest of APAC Collision Avoidance System Market
    - 7.5.6.1. Technology breakdown size & forecasts, 2025-2035
    - 7.5.6.2. Application breakdown size & forecasts, 2025-2035
- 7.6. Latin America Collision Avoidance System Market
  - 7.6.1. Brazil Collision Avoidance System Market
    - 7.6.1.1. Technology breakdown size & forecasts, 2025-2035
    - 7.6.1.2. Application breakdown size & forecasts, 2025-2035
  - 7.6.2. Mexico Collision Avoidance System Market
    - 7.6.2.1. Technology breakdown size & forecasts, 2025-2035

- 7.6.2.2. Application breakdown size & forecasts, 2025-2035
- 7.7. Middle East and Africa Collision Avoidance System Market
  - 7.7.1. UAE Collision Avoidance System Market
    - 7.7.1.1. Technology breakdown size & forecasts, 2025-2035
    - 7.7.1.2. Application breakdown size & forecasts, 2025-2035
  - 7.7.2. Saudi Arabia (KSA) Collision Avoidance System Market
    - 7.7.2.1. Technology breakdown size & forecasts, 2025-2035
    - 7.7.2.2. Application breakdown size & forecasts, 2025-2035
  - 7.7.3. South Africa Collision Avoidance System Market
    - 7.7.3.1. Technology breakdown size & forecasts, 2025-2035
    - 7.7.3.2. Application breakdown size & forecasts, 2025-2035

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

- 8.1. Top Market Strategies
- 8.2. Robert Bosch GmbH
  - 8.2.1. Company Overview
  - 8.2.2. Key Executives
  - 8.2.3. Company Snapshot
  - 8.2.4. Financial Performance (Subject to Data Availability)
  - 8.2.5. Product/Services Port
  - 8.2.6. Recent Development
  - 8.2.7. Market Strategies
  - 8.2.8. SWOT Analysis
- 8.3. Denso Corporation
- 8.4. Continental AG
- 8.5. Magna International Inc.
- 8.6. ZF Friedrichshafen AG
- 8.7. Autoliv Inc.
- 8.8. Mobileye N.V. (Intel Corporation)
- 8.9. Hyundai Mobis Co., Ltd.
- 8.10. Aptiv PLC
- 8.11. Valeo SA
- 8.12. Panasonic Corporation
- 8.13. Texas Instruments Incorporated
- 8.14. WABCO Holdings Inc.
- 8.15. NXP Semiconductors N.V.
- 8.16. Infineon Technologies AG

## List Of Tables

### LIST OF TABLES

- Table 1. Global Collision Avoidance System Market, Report Scope
- Table 2. Global Collision Avoidance System Market Estimates & Forecasts By Region 2024–2035
- Table 3. Global Collision Avoidance System Market Estimates & Forecasts By Segment 2024–2035
- Table 4. Global Collision Avoidance System Market Estimates & Forecasts By Segment 2024–2035
- Table 5. Global Collision Avoidance System Market Estimates & Forecasts By Segment 2024–2035
- Table 6. Global Collision Avoidance System Market Estimates & Forecasts By Segment 2024–2035
- Table 7. Global Collision Avoidance System Market Estimates & Forecasts By Segment 2024–2035
- Table 8. U.S. Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 9. Canada Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 10. UK Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 11. Germany Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 12. France Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 13. Spain Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 14. Italy Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 15. Rest Of Europe Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 16. China Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 17. India Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 18. Japan Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 19. Australia Collision Avoidance System Market Estimates & Forecasts, 2024–2035
- Table 20. South Korea Collision Avoidance System Market Estimates & Forecasts, 2024–2035

.....

## List Of Figures

### LIST OF FIGURES

- Fig 1. Global Collision Avoidance System Market, Research Methodology
- Fig 2. Global Collision Avoidance System Market, Market Estimation Techniques
- Fig 3. Global Market Size Estimates & Forecast Methods
- Fig 4. Global Collision Avoidance System Market, Key Trends 2025
- Fig 5. Global Collision Avoidance System Market, Growth Prospects 2024–2035
- Fig 6. Global Collision Avoidance System Market, Porter’s Five Forces Model
- Fig 7. Global Collision Avoidance System Market, Pestel Analysis
- Fig 8. Global Collision Avoidance System Market, Value Chain Analysis
- Fig 9. Collision Avoidance System Market By Application, 2025 & 2035
- Fig 10. Collision Avoidance System Market By Segment, 2025 & 2035
- Fig 11. Collision Avoidance System Market By Segment, 2025 & 2035
- Fig 12. Collision Avoidance System Market By Segment, 2025 & 2035
- Fig 13. Collision Avoidance System Market By Segment, 2025 & 2035
- Fig 14. North America Collision Avoidance System Market, 2025 & 2035
- Fig 15. Europe Collision Avoidance System Market, 2025 & 2035
- Fig 16. Asia Pacific Collision Avoidance System Market, 2025 & 2035
- Fig 17. Latin America Collision Avoidance System Market, 2025 & 2035
- Fig 18. Middle East & Africa Collision Avoidance System Market, 2025 & 2035
- Fig 19. Global Collision Avoidance System Market, Company Market Share Analysis (2025)

.....

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