

Collision Avoidance Sensors Market Forecasts to 2034 – Global Analysis By Technology (Camera, Lidar, Radar, Ultrasound and Other Technologies), Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Collision Avoidance Sensors Market is accounted for \$8.7 billion in 2026 and is expected to reach \$24.6 billion by 2034 growing at a CAGR of 13.9% during the forecast period. Collision avoidance sensors are advanced technologies designed to detect and mitigate the risk of collisions between vehicles, objects, or obstacles in various environments, such as automotive, industrial, and aerospace settings. By continuously monitoring the surroundings, these sensors can detect potential collision risks, provide timely warnings, or automatically intervene to prevent accidents.

Market Dynamics:

Driver:

Growing emphasis on vehicle safety

With a growing awareness of the human and economic toll of road accidents, there is a collective global push toward enhancing safety measures in vehicles. Governments, regulatory bodies, and consumers are placing greater importance on technologies that can prevent collisions and mitigate their severity. Moreover, collision avoidance sensors play a crucial role by offering real-time detection of potential hazards and enabling quick, automated responses, such as emergency braking. These factors accelerate market demand.

Restraint:

High implementation cost

The implementation of advanced sensor technologies, including radar, LiDAR, and cameras, requires substantial financial investments for both manufacturers and end-users. These costs encompass not only the procurement of sophisticated sensor components but also the expenses associated with research, development, and integration into vehicles or industrial machinery. As a result, the high initial costs associated with collision avoidance sensors serve as a significant restraint on the market.

Opportunity:

Advancements in sensor technologies

The continuous evolution of radar, lidar, and camera technologies has resulted in sensors that are more sophisticated and reliable. Radar systems, utilizing radio waves to detect objects and their velocities, have seen advancements in frequency modulation and signal processing, allowing for higher precision and improved range. Additionally, advancements in camera technologies, including higher resolution and improved image processing algorithms, enhance the vision-based capabilities of collision avoidance systems.

Threat:

Environmental impacts

The production, utilization, and disposal of electronic components integral to these sensor systems contribute to electronic waste, posing a challenge to sustainability. The manufacturing processes involve the extraction of raw materials, energy consumption, and emissions, contributing to the industry's overall carbon footprint. Additionally, end-of-life disposal presents challenges for recycling and responsible waste management. Therefore, environmental impact is a significant threat hampering market demand.

Covid-19 Impact

The COVID-19 pandemic significantly impacted the collision avoidance sensor market. The decreased consumer purchasing power and economic uncertainties contributed to

a decline in demand for new vehicles equipped with these safety features. Moreover, the pandemic prompted a shift in focus within the automotive industry towards the production of essential vehicles, such as those for medical and emergency services, diverting attention and resources from the integration of advanced safety technologies.

The radar segment is expected to be the largest during the forecast period

The radar segment is estimated to hold the largest share. Radar technology plays a pivotal role in collision avoidance sensors, offering a sophisticated and widely adopted solution for detecting and preventing collisions. Radar systems utilize radio waves to determine the range, angle, and velocity of objects within their vicinity. Moreover, in industrial settings, radar sensors are utilized in machinery and equipment to prevent collisions and enhance workplace safety.

The parking assistance segment is expected to have the highest CAGR during the forecast period

The parking assistance segment is anticipated to have lucrative growth during the forecast period. Parking assistance systems are a significant component of the collision avoidance sensors designed to simplify and enhance the parking experience while minimizing the risk of collisions. The technology often includes features such as parking sensors that gauge the distance between the vehicle and obstacles, as well as automated parking assistance that can control steering and braking during parallel or perpendicular parking.

Region with largest share:

Asia Pacific commanded the largest market share during the extrapolated period owing to rapid economic development, urbanization, and a burgeoning automotive sector. Countries like China, Japan, South Korea, and India are at the forefront of integrating collision avoidance sensors into vehicles and industrial machinery. As these nations witness substantial increases in traffic density, there is a growing emphasis on safety, prompting the adoption of advanced sensor technologies.

Region with highest CAGR:

Europe is expected to witness profitable growth over the projection period, owing to strong automotive industry, technological innovation, and a commitment to advancing road safety. The region has witnessed widespread integration of collision avoidance

sensors in vehicles, driven by stringent safety regulations and the pursuit of reducing road accidents. Additionally, the focus on smart and connected transportation solutions further propels the demand for collision avoidance systems in this region.

Key players in the market

Some of the key players in the Collision Avoidance Sensors Market include Siemens AG, General Electric Company, Honeywell International Inc., Robert Bosch GmbH, Infineon Technologies AG, DENSO Corporation, NXP Semiconductors N.V., Murata Manufacturing Co., Ltd., Texas Instruments Inc., Delphi Automotive LLP, Takata Corporation, Sensata Technologies, Inc. and Panasonic Corporation.

Key Developments:

In October 2023, Siemens and Microsoft have announced a joint project to use AI to increase productivity and bring the benefits of generative AI to industries worldwide.

In April 2023, Siemens Digital Industries Software and IBM announced they are expanding their long-term partnership by collaborating to develop a combined software solution integrating their respective offerings for systems engineering, service lifecycle management and asset management.

Technologies Covered:

Camera

Lidar

Radar

Ultrasound

Other Technologies

Applications Covered:

Lane Departure Warning System

Blind Spot Detection

Adaptive Cruise Control

Parking Assistance

Forward Collision Warning System

Autonomous Emergency Braking

Other Applications

End Users Covered:

Aerospace & Defense

Automotive

Marine

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Application Analysis
- 3.8 End User Analysis
- 3.9 Emerging Markets
- 3.10 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL COLLISION AVOIDANCE SENSORS MARKET, BY TECHNOLOGY

- 5.1 Introduction
- 5.2 Camera
- 5.3 Lidar
- 5.4 Radar
- 5.5 Ultrasound
- 5.6 Other Technologies

6 GLOBAL COLLISION AVOIDANCE SENSORS MARKET, BY APPLICATION

- 6.1 Introduction
- 6.2 Lane Departure Warning System
- 6.3 Blind Spot Detection
- 6.4 Adaptive Cruise Control
- 6.5 Parking Assistance
- 6.6 Forward Collision Warning System
- 6.7 Autonomous Emergency Braking
- 6.8 Other Applications

7 GLOBAL COLLISION AVOIDANCE SENSORS MARKET, BY END USER

- 7.1 Introduction
- 7.2 Aerospace & Defense
- 7.3 Automotive
 - 7.3.1 Commercial Vehicle
 - 7.3.2 Passenger Cars
- 7.4 Marine
- 7.5 Rail
- 7.6 Other End Users

8 GLOBAL COLLISION AVOIDANCE SENSORS MARKET, BY GEOGRAPHY

- 8.1 Introduction
- 8.2 North America
 - 8.2.1 US
 - 8.2.2 Canada
 - 8.2.3 Mexico

8.3 Europe

8.3.1 Germany

8.3.2 UK

8.3.3 Italy

8.3.4 France

8.3.5 Spain

8.3.6 Rest of Europe

8.4 Asia Pacific

8.4.1 Japan

8.4.2 China

8.4.3 India

8.4.4 Australia

8.4.5 New Zealand

8.4.6 South Korea

8.4.7 Rest of Asia Pacific

8.5 South America

8.5.1 Argentina

8.5.2 Brazil

8.5.3 Chile

8.5.4 Rest of South America

8.6 Middle East & Africa

8.6.1 Saudi Arabia

8.6.2 UAE

8.6.3 Qatar

8.6.4 South Africa

8.6.5 Rest of Middle East & Africa

9 KEY DEVELOPMENTS

9.1 Agreements, Partnerships, Collaborations and Joint Ventures

9.2 Acquisitions & Mergers

9.3 New Product Launch

9.4 Expansions

9.5 Other Key Strategies

10 COMPANY PROFILING

10.1 Siemens AG

10.2 General Electric Company

- 10.3 Honeywell International Inc.
- 10.4 Robert Bosch GmbH
- 10.5 Infineon Technologies AG
- 10.6 DENSO Corporation
- 10.7 NXP Semiconductors N.V.
- 10.8 Murata Manufacturing Co., Ltd.
- 10.9 Texas Instruments Inc.
- 10.10 Delphi Automotive LLP
- 10.11 Takata Corporation
- 10.12 Sensata Technologies, Inc.
- 10.13 Panasonic Corporation

List Of Tables

LIST OF TABLES

Table 1 Global Collision Avoidance Sensors Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Collision Avoidance Sensors Market Outlook, By Technology (2023-2034) (\$MN)

Table 3 Global Collision Avoidance Sensors Market Outlook, By Camera (2023-2034) (\$MN)

Table 4 Global Collision Avoidance Sensors Market Outlook, By Lidar (2023-2034) (\$MN)

Table 5 Global Collision Avoidance Sensors Market Outlook, By Radar (2023-2034) (\$MN)

Table 6 Global Collision Avoidance Sensors Market Outlook, By Ultrasound (2023-2034) (\$MN)

Table 7 Global Collision Avoidance Sensors Market Outlook, By Other Technologies (2023-2034) (\$MN)

Table 8 Global Collision Avoidance Sensors Market Outlook, By Application (2023-2034) (\$MN)

Table 9 Global Collision Avoidance Sensors Market Outlook, By Lane Departure Warning System (2023-2034) (\$MN)

Table 10 Global Collision Avoidance Sensors Market Outlook, By Blind Spot Detection (2023-2034) (\$MN)

Table 11 Global Collision Avoidance Sensors Market Outlook, By Adaptive Cruise Control (2023-2034) (\$MN)

Table 12 Global Collision Avoidance Sensors Market Outlook, By Parking Assistance (2023-2034) (\$MN)

Table 13 Global Collision Avoidance Sensors Market Outlook, By Forward Collision Warning System (2023-2034) (\$MN)

Table 14 Global Collision Avoidance Sensors Market Outlook, By Autonomous Emergency Braking (2023-2034) (\$MN)

Table 15 Global Collision Avoidance Sensors Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 16 Global Collision Avoidance Sensors Market Outlook, By End User (2023-2034) (\$MN)

Table 17 Global Collision Avoidance Sensors Market Outlook, By Aerospace & Defense (2023-2034) (\$MN)

Table 18 Global Collision Avoidance Sensors Market Outlook, By Automotive

(2023-2034) (\$MN)

Table 19 Global Collision Avoidance Sensors Market Outlook, By Commercial Vehicle (2023-2034) (\$MN)

Table 20 Global Collision Avoidance Sensors Market Outlook, By Passenger Cars (2023-2034) (\$MN)

Table 21 Global Collision Avoidance Sensors Market Outlook, By Marine (2023-2034) (\$MN)

Table 22 Global Collision Avoidance Sensors Market Outlook, By Rail (2023-2034) (\$MN)

Table 23 Global Collision Avoidance Sensors Market Outlook, By Other End Users (2023-2034) (\$MN)

Table 24 North America Collision Avoidance Sensors Market Outlook, By Country (2023-2034) (\$MN)

Table 25 North America Collision Avoidance Sensors Market Outlook, By Technology (2023-2034) (\$MN)

Table 26 North America Collision Avoidance Sensors Market Outlook, By Camera (2023-2034) (\$MN)

Table 27 North America Collision Avoidance Sensors Market Outlook, By Lidar (2023-2034) (\$MN)

Table 28 North America Collision Avoidance Sensors Market Outlook, By Radar (2023-2034) (\$MN)

Table 29 North America Collision Avoidance Sensors Market Outlook, By Ultrasound (2023-2034) (\$MN)

Table 30 North America Collision Avoidance Sensors Market Outlook, By Other Technologies (2023-2034) (\$MN)

Table 31 North America Collision Avoidance Sensors Market Outlook, By Application (2023-2034) (\$MN)

Table 32 North America Collision Avoidance Sensors Market Outlook, By Lane Departure Warning System (2023-2034) (\$MN)

Table 33 North America Collision Avoidance Sensors Market Outlook, By Blind Spot Detection (2023-2034) (\$MN)

Table 34 North America Collision Avoidance Sensors Market Outlook, By Adaptive Cruise Control (2023-2034) (\$MN)

Table 35 North America Collision Avoidance Sensors Market Outlook, By Parking Assistance (2023-2034) (\$MN)

Table 36 North America Collision Avoidance Sensors Market Outlook, By Forward Collision Warning System (2023-2034) (\$MN)

Table 37 North America Collision Avoidance Sensors Market Outlook, By Autonomous Emergency Braking (2023-2034) (\$MN)

Table 38 North America Collision Avoidance Sensors Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 39 North America Collision Avoidance Sensors Market Outlook, By End User (2023-2034) (\$MN)

Table 40 North America Collision Avoidance Sensors Market Outlook, By Aerospace & Defense (2023-2034) (\$MN)

Table 41 North America Collision Avoidance Sensors Market Outlook, By Automotive (2023-2034) (\$MN)

Table 42 North America Collision Avoidance Sensors Market Outlook, By Commercial Vehicle (2023-2034) (\$MN)

Table 43 North America Collision Avoidance Sensors Market Outlook, By Passenger Cars (2023-2034) (\$MN)

Table 44 North America Collision Avoidance Sensors Market Outlook, By Marine (2023-2034) (\$MN)

Table 45 North America Collision Avoidance Sensors Market Outlook, By Rail (2023-2034) (\$MN)

Table 46 North America Collision Avoidance Sensors Market Outlook, By Other End Users (2023-2034) (\$MN)

Table 47 Europe Collision Avoidance Sensors Market Outlook, By Country (2023-2034) (\$MN)

Table 48 Europe Collision Avoidance Sensors Market Outlook, By Technology (2023-2034) (\$MN)

Table 49 Europe Collision Avoidance Sensors Market Outlook, By Camera (2023-2034) (\$MN)

Table 50 Europe Collision Avoidance Sensors Market Outlook, By Lidar (2023-2034) (\$MN)

Table 51 Europe Collision Avoidance Sensors Market Outlook, By Radar (2023-2034) (\$MN)

Table 52 Europe Collision Avoidance Sensors Market Outlook, By Ultrasound (2023-2034) (\$MN)

Table 53 Europe Collision Avoidance Sensors Market Outlook, By Other Technologies (2023-2034) (\$MN)

Table 54 Europe Collision Avoidance Sensors Market Outlook, By Application (2023-2034) (\$MN)

Table 55 Europe Collision Avoidance Sensors Market Outlook, By Lane Departure Warning System (2023-2034) (\$MN)

Table 56 Europe Collision Avoidance Sensors Market Outlook, By Blind Spot Detection (2023-2034) (\$MN)

Table 57 Europe Collision Avoidance Sensors Market Outlook, By Adaptive Cruise

Control (2023-2034) (\$MN)

Table 58 Europe Collision Avoidance Sensors Market Outlook, By Parking Assistance (2023-2034) (\$MN)

Table 59 Europe Collision Avoidance Sensors Market Outlook, By Forward Collision Warning System (2023-2034) (\$MN)

Table 60 Europe Collision Avoidance Sensors Market Outlook, By Autonomous Emergency Braking (2023-2034) (\$MN)

Table 61 Europe Collision Avoidance Sensors Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 62 Europe Collision Avoidance Sensors Market Outlook, By End User (2023-2034) (\$MN)

Table 63 Europe Collision Avoidance Sensors Market Outlook, By Aerospace & Defense (2023-2034) (\$MN)

Table 64 Europe Collision Avoidance Sensors Market Outlook, By Automotive (2023-2034) (\$MN)

Table 65 Europe Collision Avoidance Sensors Market Outlook, By Commercial Vehicle (2023-2034) (\$MN)

Table 66 Europe Collision Avoidance Sensors Market Outlook, By Passenger Cars (2023-2034) (\$MN)

Table 67 Europe Collision Avoidance Sensors Market Outlook, By Marine (2023-2034) (\$MN)

Table 68 Europe Collision Avoidance Sensors Market Outlook, By Rail (2023-2034) (\$MN)

Table 69 Europe Collision Avoidance Sensors Market Outlook, By Other End Users (2023-2034) (\$MN)

Table 70 Asia Pacific Collision Avoidance Sensors Market Outlook, By Country (2023-2034) (\$MN)

Table 71 Asia Pacific Collision Avoidance Sensors Market Outlook, By Technology (2023-2034) (\$MN)

Table 72 Asia Pacific Collision Avoidance Sensors Market Outlook, By Camera (2023-2034) (\$MN)

Table 73 Asia Pacific Collision Avoidance Sensors Market Outlook, By Lidar (2023-2034) (\$MN)

Table 74 Asia Pacific Collision Avoidance Sensors Market Outlook, By Radar (2023-2034) (\$MN)

Table 75 Asia Pacific Collision Avoidance Sensors Market Outlook, By Ultrasound (2023-2034) (\$MN)

Table 76 Asia Pacific Collision Avoidance Sensors Market Outlook, By Other Technologies (2023-2034) (\$MN)

Table 77 Asia Pacific Collision Avoidance Sensors Market Outlook, By Application (2023-2034) (\$MN)

Table 78 Asia Pacific Collision Avoidance Sensors Market Outlook, By Lane Departure Warning System (2023-2034) (\$MN)

Table 79 Asia Pacific Collision Avoidance Sensors Market Outlook, By Blind Spot Detection (2023-2034) (\$MN)

Table 80 Asia Pacific Collision Avoidance Sensors Market Outlook, By Adaptive Cruise Control (2023-2034) (\$MN)

Table 81 Asia Pacific Collision Avoidance Sensors Market Outlook, By Parking Assistance (2023-2034) (\$MN)

Table 82 Asia Pacific Collision Avoidance Sensors Market Outlook, By Forward Collision Warning System (2023-2034) (\$MN)

Table 83 Asia Pacific Collision Avoidance Sensors Market Outlook, By Autonomous Emergency Braking (2023-2034) (\$MN)

Table 84 Asia Pacific Collision Avoidance Sensors Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 85 Asia Pacific Collision Avoidance Sensors Market Outlook, By End User (2023-2034) (\$MN)

Table 86 Asia Pacific Collision Avoidance Sensors Market Outlook, By Aerospace & Defense (2023-2034) (\$MN)

Table 87 Asia Pacific Collision Avoidance Sensors Market Outlook, By Automotive (2023-2034) (\$MN)

Table 88 Asia Pacific Collision Avoidance Sensors Market Outlook, By Commercial Vehicle (2023-2034) (\$MN)

Table 89 Asia Pacific Collision Avoidance Sensors Market Outlook, By Passenger Cars (2023-2034) (\$MN)

Table 90 Asia Pacific Collision Avoidance Sensors Market Outlook, By Marine (2023-2034) (\$MN)

Table 91 Asia Pacific Collision Avoidance Sensors Market Outlook, By Rail (2023-2034) (\$MN)

Table 92 Asia Pacific Collision Avoidance Sensors Market Outlook, By Other End Users (2023-2034) (\$MN)

Table 93 South America Collision Avoidance Sensors Market Outlook, By Country (2023-2034) (\$MN)

Table 94 South America Collision Avoidance Sensors Market Outlook, By Technology (2023-2034) (\$MN)

Table 95 South America Collision Avoidance Sensors Market Outlook, By Camera (2023-2034) (\$MN)

Table 96 South America Collision Avoidance Sensors Market Outlook, By Lidar

(2023-2034) (\$MN)

Table 97 South America Collision Avoidance Sensors Market Outlook, By Radar

(2023-2034) (\$MN)

Table 98 South America Collision Avoidance Sensors Market Outlook, By Ultrasound

(2023-2034) (\$MN)

Table 99 South America Collision Avoidance Sensors Market Outlook, By Other Technologies (2023-2034) (\$MN)

Table 100 South America Collision Avoidance Sensors Market Outlook, By Application (2023-2034) (\$MN)

Table 101 South America Collision Avoidance Sensors Market Outlook, By Lane Departure Warning System (2023-2034) (\$MN)

Table 102 South America Collision Avoidance Sensors Market Outlook, By Blind Spot Detection (2023-2034) (\$MN)

Table 103 South America Collision Avoidance Sensors Market Outlook, By Adaptive Cruise Control (2023-2034) (\$MN)

Table 104 South America Collision Avoidance Sensors Market Outlook, By Parking Assistance (2023-2034) (\$MN)

Table 105 South America Collision Avoidance Sensors Market Outlook, By Forward Collision Warning System (2023-2034) (\$MN)

Table 106 South America Collision Avoidance Sensors Market Outlook, By Autonomous Emergency Braking (2023-2034) (\$MN)

Table 107 South America Collision Avoidance Sensors Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 108 South America Collision Avoidance Sensors Market Outlook, By End User (2023-2034) (\$MN)

Table 109 South America Collision Avoidance Sensors Market Outlook, By Aerospace & Defense (2023-2034) (\$MN)

Table 110 South America Collision Avoidance Sensors Market Outlook, By Automotive (2023-2034) (\$MN)

Table 111 South America Collision Avoidance Sensors Market Outlook, By Commercial Vehicle (2023-2034) (\$MN)

Table 112 South America Collision Avoidance Sensors Market Outlook, By Passenger Cars (2023-2034) (\$MN)

Table 113 South America Collision Avoidance Sensors Market Outlook, By Marine (2023-2034) (\$MN)

Table 114 South America Collision Avoidance Sensors Market Outlook, By Rail (2023-2034) (\$MN)

Table 115 South America Collision Avoidance Sensors Market Outlook, By Other End Users (2023-2034) (\$MN)

Table 116 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Country (2023-2034) (\$MN)

Table 117 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Technology (2023-2034) (\$MN)

Table 118 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Camera (2023-2034) (\$MN)

Table 119 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Lidar (2023-2034) (\$MN)

Table 120 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Radar (2023-2034) (\$MN)

Table 121 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Ultrasound (2023-2034) (\$MN)

Table 122 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Other Technologies (2023-2034) (\$MN)

Table 123 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Application (2023-2034) (\$MN)

Table 124 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Lane Departure Warning System (2023-2034) (\$MN)

Table 125 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Blind Spot Detection (2023-2034) (\$MN)

Table 126 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Adaptive Cruise Control (2023-2034) (\$MN)

Table 127 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Parking Assistance (2023-2034) (\$MN)

Table 128 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Forward Collision Warning System (2023-2034) (\$MN)

Table 129 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Autonomous Emergency Braking (2023-2034) (\$MN)

Table 130 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 131 Middle East & Africa Collision Avoidance Sensors Market Outlook, By End User (2023-2034) (\$MN)

Table 132 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Aerospace & Defense (2023-2034) (\$MN)

Table 133 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Automotive (2023-2034) (\$MN)

Table 134 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Commercial Vehicle (2023-2034) (\$MN)

Table 135 Middle East & Africa Collision Avoidance Sensors Market Outlook, By

Passenger Cars (2023-2034) (\$MN)

Table 136 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Marine (2023-2034) (\$MN)

Table 137 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Rail (2023-2034) (\$MN)

Table 138 Middle East & Africa Collision Avoidance Sensors Market Outlook, By Other End Users (2023-2034) (\$MN)

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