

Blind Spot Detection System Market Assessment, By Technology [Ultrasound, Radar, Camera], By Vehicle [Passenger Cars, Commercial Vehicle], By Sales Channel [OEM, Aftermarket], By Region, Opportunities, and Forecast, 2017-2031F

Market Report | 2024-06-10 | 234 pages | Market Xcel - Markets and Data

AVAILABLE LICENSES:

- Single User License \$4500.00
- Muti-User/Corporate Licence \$5700.00
- Custom Research License \$8200.00

Report description:

The global blind spot detection system market is projected to witness a CAGR of 10.39% during the forecast period 2024-2031, growing from USD 3.51 billion in 2023 to USD 7.74 billion in 2031. The increased number of personal vehicles on the road and rising accident cases have given birth to new vehicle safety and security solutions. This includes adaptive cruise control, sensory data, and blind spot detection systems. Radar or ultrasonic sensors mounted on the side and back of the car are the basis for blind-spot monitoring. The device keeps an eye on the conditions of the vehicle's side and rear. Modern-age vehicles with higher speed limits and advanced radar systems are going to add value to the market. The systems alert or deliver warnings through automatic emergency warnings like visual and audio warnings. The advanced systems hold 180 degrees of coverage that reflect ultrasonic sensors and soundwaves for detecting any stationary and moving object. Governments across the globe are mandating safety measures as the number of road accidents tends to surge. New standard policies are being imposed on car manufacturers to make certain safety features compulsory.

Automakers are equipping their vehicles with the latest blind spot detection systems to counter accidental situations. Furthermore, upgraded versions of popular SUVs, hatchbacks, and sedans are also being fitted with the same. For instance, in November 2023, Maruti Suzuki started testing the new Swift 2024 in India. A blind spot monitor and an international spec with a suite of ADAS level 2 technology are fitted on the vehicle.

Higher Adoption of HCVs and Technological Advancements to Fuel Market Expansion

The blind detection system is more helpful for larger vehicles like SUVs and heavy commercial vehicles. Heavy commercial vehicles have complexity in changing lanes as the visibility is limited. Hence, blind spot detection systems help drivers navigate while shifting from one side of the road to another, monitoring both sides of the vehicles. Furthermore, BSD systems are more effective than mirrors, which still rely on drivers to do most of the watching and observing because they are proactive in alerting drivers to obstructions. More advanced systems can even interfere by subtly altering steering or applying brakes to stop drivers

from changing lanes and running into other cars. Alongside this, the integration of artificial intelligence and other advanced technologies is anticipated to fuel market growth.

For instance, in February 2024, Brigade Electronics introduced Radar Predict, a cutting-edge side blind spot information system (BSIS) collision prediction safety system designed especially to shield bicycles from hit-and-run situations involving heavy-duty vehicles. Radar Predict uses artificial intelligence (AI) to analyze data, including the vehicle's speed and direction as well as the location of surrounding cyclists, to warn drivers of possible crashes.

Improved Overall Safety and Expansion of Commercial Fleets to Bring New Opportunities to Market

The rising trend of making commercial vehicles safer and secure through different technological measures is likely to help the blind spot detection system market expansion. Furthermore, the higher adoption of SUVs and other off-road sports vehicles demands AI-based blind spot detection systems. Blind spot monitoring devices also continuously track traffic. While driving on a multi-lane road or a freeway, people usually gaze forward and ignore blind spots. Blind spot monitoring improves overall safety by having sensors constantly detect traffic in front of, behind, and around the car. The expanding commercial fleet businesses, including transportation and logistics solutions, are heavily adopting trucks, loaders, and other goods-carrying vehicles. These vehicles cruise on highways along with high-speed vehicles, and hence safety, plays an important role.

For instance, in November 2023, Durite Ltd. introduced their new DVS Progressive Safe System (PSS) during the FORS Annual Conference. The Blind Spot Information System (BSIS), also known as the nearside detection system, is mandated by the new PSS to differentiate between moving and stationary objects and to notify the driver only in the event of an impending collision. PSS delivers an improved detecting area and fully eliminates blind spots by applying the intelligent AI (Artificial Intelligence) technology.

Radar Technology to Gain Major Traction in the Blind Spot Detection System Market

Based on technology type, radar technology holds dominance due to higher accuracy, quick response, and long-range detection. For outdoor long-range applications up to 40 meters, radar sensors are ideal. For increased accuracy, many radar sensors can also be adjusted to detect things up to a predetermined distance while rejecting closer items. Unlike photoelectric or ultrasonic sensors, radar sensors are unaffected by factors like wind, rain, fog, light, humidity, or air temperature. Accurate detection is the outcome with different settings. The radar systems have immunity to ambient weather conditions, including excess wind, dirt, debris, and potential for impact. Compared to other sensing technologies, radar sensors require less installation and maintenance. For instance, in November 2023, Sensata Technologies launched a new Radar Sensor for blind-spot detection. A next-generation take-off and reverse blind-spot monitoring radar is designed to enhance driver awareness in on-road and off-road heavy vehicles and machines. Designed to be easily integrated into a wide range of vehicles, the PreView Sentry 79 is installed without any heavy modifications or interventions into existing systems.

Asia-Pacific Leads in the Market with Higher Ev Adoption

Asia-Pacific holds a decent share of the market. The factors attributed to the regional growth include emerging economies like China and India, which are building their automotive manufacturing and research and development space. The higher adoption of electric vehicles, along with local automakers building new systems to prevent vehicle accidents, will likely propel regional growth during the anticipated period. Furthermore, local manufacturers expanding their research facilities also garner market growth. The Asia-Pacific market is also widening due to the availability of low-cost raw materials and the mass development of this technology. The region's manufacturers create high-end applications to attract more customers and outperform their rivals.

For instance, in October 2022, Taiwan's Oto Brite Electronics introduced the blind spot information system (BSIS) for large commercial vehicles. The product integrates with artificial intelligence to deliver a higher accuracy while detecting possible objects and vehicles.

Future Market Scenario (2024-2031F)

-[]A higher focus on vehicle safety, along with expanding fleet management businesses, is anticipated to consume a major chunk of the blind spot detection system market.

-[The government mandating safety checks and measures in upcoming vehicles is projected to garner market growth.
 -[Integration with technologies like artificial intelligence and long-range radar systems is anticipated to widen the market hold.
 -[The adoption of ADAS and adaptive cruise control systems is expected to increase the demand for blind spot detection systems.
 Key Players Landscape and Outlook

The blind spot detection system market players work on adding higher safety through quick response time, multi-camera setup, integration with AI, and 180-degree coverage. The market landscape comprises aftermarket equipment manufacturers along with the original manufacturers. Furthermore, the companies also collaborate, acquire, and partner to expand their supply chain, distribution channel, and overall market hold.

For instance, NXP expanded its Industry-First 28 nm RFCMOS Radar One-Chip Family to support software-defined car ADAS platforms. HELLA's 7th-generation radar portfolio is probably going to be built around NXP's SoC family. The new radar one-chip supports NCAP safety features, including emergency braking and blind-spot detection.

In May 2023, Mobileye and Porsche formed a strategic partnership to supply Mobileye's premium advanced driver assistance technologies, known as SuperVision. In some usage scenarios, SuperVision technologies provide hands-off operation, allowing cars to carry out tasks like automatic lane changes, collision avoidance, and blind spot identification.

Table of Contents:

1. ⊓Research Methodology 2. Project Scope & Definitions 3. □ Executive Summary 4. □Voice of Customer 4.1. □Functionality 4.2. Sensor Type 4.3.∏Integration 4.4. Accuracy and Reliability 4.5. False Positives and Negatives 4.6. Compatibility 5. Global Blind Spot Detection System Market Outlook, 2017-2031F 5.1. Market Size & Forecast 5.1.1. By Value 5.1.2. By Volume 5.2. By Technology 5.2.1. Ultrasound 5.2.2. Radar 5.2.3. Camera 5.3.
¬By Vehicle 5.3.1. □ Passenger Cars 5.3.2. Commercial Vehicles 5.4. By Sales Channel 5.4.1.[] OEM 5.4.2. Aftermarket 5.5. By Region 5.5.1. North America 5.5.2.∏Europe 5.5.3. Asia-Pacific 5.5.4. South America 5.5.5. ∏Middle East and Africa 5.6. □By Company Market Share (%), 2023 6. Global Blind Spot Detection System Market Outlook, By Region, 2017-2031F 6.1. North America* 6.1.1. Market Size & Forecast

6.1.1.1. By Value 6.1.2. By Technology 6.1.2.1. Ultrasound 6.1.2.2. [Radar 6.1.2.3. Camera 6.1.3. By Vehicle 6.1.3.1. Passenger Cars 6.1.3.2. Commercial Vehicles 6.1.4. By Sales Channel 6.1.4.1.∏OEM 6.1.4.2.∏Aftermarket 6.1.5. □United States* 6.1.5.1. Market Size & Forecast 6.1.5.1.1. By Value 6.1.5.2. By Technology 6.1.5.2.1. Ultrasound 6.1.5.2.2. [Radar 6.1.5.2.3. Camera 6.1.5.3. By Vehicle 6.1.5.3.1. Passenger Cars 6.1.5.3.2. Commercial Vehicles 6.1.5.4. By Sales Channel 6.1.5.4.1.∏OEM 6.1.5.4.2. Aftermarket 6.1.6. Canada 6.1.7. Mexico *All segments will be provided for all regions and countries covered 6.2.∏Europe 6.2.1. Germany 6.2.2.∏ France 6.2.3.∏ Italy 6.2.4. United Kingdom 6.2.5.∏ Russia 6.2.6. Netherlands 6.2.7.[] Spain 6.2.8. Turkey 6.2.9. Poland 6.3. Asia-Pacific 6.3.1.[] India 6.3.2.[] China 6.3.3.[] Japan 6.3.4. Australia 6.3.5. Vietnam 6.3.6. South Korea 6.3.7. Indonesia 6.3.8. Philippines 6.4. South America

6.4.1. Brazil 6.4.2. Argentina 6.5. Middle East and Africa 6.5.1. Saudi Arabia 6.5.2. UAE 6.5.3. South Africa 7. Market Mapping, 2023 7.1. By Technology 7.2. By Vehicle 7.3.
¬By Sales Channel 7.4.
¬By Region 8. Macro Environment and Industry Structure 8.1. Demand Supply Analysis 8.2. Import Export Analysis 8.3. Value Chain Analysis 8.4.
□PESTEL Analysis 8.4.1. Political Factors 8.4.2. Economic System 8.4.3. Social Implications 8.4.4. Technological Advancements 8.4.5. Environmental Impacts 8.4.6. Legal Compliances and Regulatory Policies (Statutory Bodies Included) 8.5.
□Porter's Five Forces Analysis 8.5.1. Supplier Power 8.5.2. Buyer Power 8.5.3. Substitution Threat 8.5.4. Threat From New Entrants 8.5.5.□ Competitive Rivalry 9. Market Dynamics 9.1. Growth Drivers 9.2. Growth Inhibitors (Challenges and Restraints) 10.
¬Key Players Landscape 10.1. Competition Matrix of Top Five Market Leaders 10.2. Market Revenue Analysis of Top Five Market Leaders (By Value, 2023) 10.3. Mergers and Acquisitions/Joint Ventures (If Applicable) 10.4. SWOT Analysis (For Five Market Players) 10.5. Patent Analysis (If Applicable) 11. Pricing Analysis 12. Case Studies 13.
¬Key Players Outlook 13.1.
¬Robert Bosch GmbH 13.1.1. Company Details 13.1.2. ||Key Management Personnel 13.1.3. □Products and Services 13.1.4. [Financials (As reported) 13.1.5. Key Market Focus and Geographical Presence 13.1.6. Recent Developments

13.2. Continental AG

13.3. Denso Corporation

13.4. Aptiv Global Operations Limited

13.5. Autoliv Inc.

13.6. Veoneer Inc.

13.7. Valeo SA

13.8. NXP Semiconductors NV

13.9. Texas Instruments Incorporated

13.10. ZF Friedrichshafen AG

13.11. Infineon Technologies AG

*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

14. Strategic Recommendations

15. About Us & Disclaimer



Blind Spot Detection System Market Assessment, By Technology [Ultrasound, Radar, Camera], By Vehicle [Passenger Cars, Commercial Vehicle], By Sales Channel [OEM, Aftermarket], By Region, Opportunities, and Forecast, 2017-2031F

Market Report | 2024-06-10 | 234 pages | Market Xcel - Markets and Data

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4500.00
	Muti-User/Corporate Licence	\$5700.00
	Custom Research License	\$8200.00
	VAT	

Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346. []** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	Phone*	
First Name*	Last Name*	
Job title*		
Company Name*	EU Vat / Tax ID / NIP number*	
Address*	City*	
Zip Code*	Country*	
	Date	2025-05-03

Signature