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Automotive Night Vision System Market - Global Outlook and Forecast 2019-2024

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Abstracts

The global automotive night vision system market is estimated to generate revenues of around $3 billion by 2024, growing at a CAGR of more than 15% during 2018-2024. The market research report also provides market share analysis in terms of unit volumes during the forecast period.

Developed countries such as the US, Japan, the UK, Germany, and France are some of the leading regions for these systems in the global market. The electrification of vehicles in the form of powertrain, connected vehicles, safety systems, infotainment, and electronics will augment the evolution of the market over the next few years. The global automotive night vision system market is driven by the developments in artificial intelligence and growth of ADAS systems. The introduction of anti-lock braking systems (ABS), engine control units (ECUs), electronic fuel injection systems, and automated locking systems will transform the global market. The market research report provides in-depth market analysis and segmental analysis of the global automotive night vision system market by product, technology, vehicle, and geography.

The report considers the present scenario of the global automotive night vision system market and its market dynamics for the period 2019?2024. It covers a detailed overview of the various market growth enablers, restraints, and trends. The study covers both the demand and supply sides of the market. It also profiles and analyzes the leading companies and other prominent companies operating in the market.

Automotive Night Vision System Market – Dynamics

The growing need for night vision systems for successful implementation of autonomous driving will drive the global automotive night vision system market. The

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inclusion of night vision systems would greatly help in reducing the pedestrian fatalities. Till date, a lot of research was conducted only on making day time driving safer, but Uber's accident has shifted manufacturers focus towards safety during night time driving. Just like humans, self-driving cars also face difficulties in identifying objects at night primarily due to darkness that shrouds object at night. The global luxury car market is witnessing rapid growth owing to the massive demand from the APAC region due to the huge wealth expansion among the population and the need for personal luxury goods. In 2017, China accounted for about 32% of the global luxury car sales, overtaking the US. In the same year, Maserati recorded its highest ever annual sales in China, as its sales jumped 119% over that in 2016. Currently, OEMs rely heavily on data to offer better customer services such remote diagnostics, and predictive maintenance among others. This has influenced the digitization of numerous functions in vehicles such as monitoring of metrics like speed, fuel efficiency, gas tank levels, heating and air conditioning among others. Digitization of cars has helped manufacturers to continuously improve on the functionalities and deliver better products that adhere to the stringent safety and emission norms. The data collected by various sensors offer a bird's eye view of the performance of the car, which allows driver to take informed decisions to increase the performance of the car.

Automotive Night Vision System Market – Segmentation

This market research report includes a detailed segmentation of the market by product, technology, vehicle, and geography. The global automotive night vision system market by product is classified into active night vision systems and passive night vision systems. Passive systems segment dominated the total market share in 2018, growing at a CAGR of around 15% during the forecast period. The growing demand for ADAS systems is driving the need for passive systems in the global market. The active system uses infrared light sources which don't cause a distraction for oncoming drivers at night as the infrared band falls outside the visible spectrum in the market. The visual data of these systems are captured on special cameras and relayed to the output monitors, HMI, and infotainment systems.

The technology segment in the global automotive night vision system market is divided into far infrared (FIR) and near infrared (NIR). Near infrared (NIR) is the fastest growing segment in the global market, at a CAGR of approximately 19% during the forecast period. The adoption of infrared illumination and stringent safety norms by governments worldwide is fueling the growth of this segment in the global market. The average detection of FIR is higher than NIR, with an average detection distance of 119m for older drivers and 144m for younger drivers. The extensive use of these systems will

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create lucrative opportunities for leading vendors in the global automotive night vision system market.

The global automotive night vision system market by vehicle is segmented into passenger cars and commercial vehicles. The passenger cars segment occupied the largest market share in 2018, growing at a CAGR of more than 14% during the forecast period. The implementation of stringent regulations and the growing adoption of safety technologies will drive the growth of the passenger cars segment in the global market. Several OEMs are integrating vehicle chassis, LiDAR, radar, and cameras in commercial vehicles to meet the dynamic consumer demands in the global market. The growing adoption of electric vehicles will propel the growth of the global automotive night vision system market.

Market Segmentation by Product

Active Night Vision Systems

Passive Night Vision Systems

Market Segmentation by Technology

Far Infrared (FIR)

Near Infrared (NIR)

Market Segmentation by Vehicle

Passenger Cars

Commercial Vehicles

Automotive Night Vision System Market – Geography

The geographical segment in the global automotive night vision system market is categorized into APAC, Europe, North America, Latin America, and MEA. APAC is the fastest growing region in the global market, at a CAGR of around 16% during the

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forecast period. The increasing penetration of luxury cars, safety systems, and the adoption of stringent safety and emission norms are some of the major factors contributing to the growth of the APAC region in the global market. North American countries such as the US, Canada, and Mexico are the largest revenue generators in the market. The increasing demand for luxury vehicles, electric cars, and the demand for automotive safety systems across MEA will boost revenues in the global automotive night vision system market.

Market Segmentation by Geography

- Europe
  - Germany
  - Spain
  - UK
- North America
  - US
  - Canada
  - Mexico
- APAC
  - China
  - Japan
  - South Korea
- Latin America
  - Brazil
- MEA

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UAE

South Africa

Key Vendor Analysis

The global automotive night vision system market is diverse in structure with different competition levels across regions. The high product reach, increasing market demand, and the presence of several players that compete on a price basis are driving the competition level in the global market. The presence of highly productive domestic manufacturers and growing exports across APAC will create lucrative opportunities in the market. The leading vendors compete on price and product differentiation to sustain the competition in the market. The higher adoption of electric, connected, and autonomous vehicles will increase the profitability of the vendors in the global automotive night vision system market.

The major vendors in the global automotive night vision system market are:

Autoliv

Continental AG

Delphi Technologies

Robert Bosch

Other prominent vendors include Aisin Seiki, Denso Corporation, First Sensor, FLIR, Garmin, Ibeo Automotive Systems, Innoviz Technologies, LeddarTech, Magna International, Mobileye (Intel), OMRON Corporation, OSRAM, Phantom Intelligence, Princeton Lightwave (Argo AI), Shenzhen Protruly Electronics, TriLumina, Quanergy Systems, Valeo, Velodyne LIDAR, Visteon Corporation, XenomatiX, and ZF.

Key market insights include

1. The analysis of the global automotive night vision system market provides market size and growth rate for the forecast period 2019-2024.

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2. It offers comprehensive insights into current industry trends, trend forecast, and growth drivers about the global automotive night vision system market.
3. The report provides the latest analysis of market share, growth drivers, challenges, and investment opportunities.
4. It offers a complete overview of market segments and the regional outlook of global automotive night vision system market.
5. The report offers a detailed overview of the vendor landscape, competitive analysis, and key market strategies to gain competitive advantage.

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