

Report Information

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Automotive Driver State Monitoring Systems Market Research Report – Forecast to 2032

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Description:

Automotive Driver State Monitoring Systems Market Scenario

The Automotive Driver State Monitoring Market is projected to grow from 1.4 USD Bn in 2021 to 3.6 USD Bn by 2032, exhibiting a compound annual growth rate (CAGR) 10.3% during the forecast period (2023 - 2032). Driver State Monitoring Systems refers to the systems that collect recognizable information about the driver for assessing the capability of driver to perform the driving task safely. The systems are gaining more importance due to the need for understanding and adjusting to the driving conditions. Driver state monitoring systems are majorly custom designed for single purpose application such as distraction detection or drowsiness detection systems.

In case of technology segmentation, Heart Rate is the most important physiological parameter that needs to be monitored as it is a vital indicator of people's physiological state. Monitoring of heart rate requires the complex application of sensors and sensor systems, which in turn leads to high cost. Researchers are majorly focusing on development of more noncontact based systems which are simple, low-cost and comfortable to use.

In case of vehicle type segmentation, passenger vehicles segment accounts for the majority share of the automotive driver state monitoring systems market. The growth of this segment can be attributed to factors such as the boom in investment for reducing the production cost of driver state monitoring system in passenger cars and high preference for integrating improved technologies. The passenger car driver safety market is driven by the increasing need to improve operator or driver safety in the automotive industry. Increase in competition in automotive industry and the growth in the demand for safety-related systems are expected to boost the demand for driver safety systems during the forecast period.

The automotive driver state monitoring systems market has a presence of many global, regional, and local vendors. The market is highly competitive with all the players performing to gain higher market shares. Intense competition, rapid advances in technology, frequent changes in government policies, and environmental regulations are key factors that confront market growth. The vendors compete based on cost, product quality, reliability, and aftermarket service. It is crucial for the vendors to provide cost-efficient and high-quality driver state monitoring systems, to survive and succeed in an intensely competitive market environment.

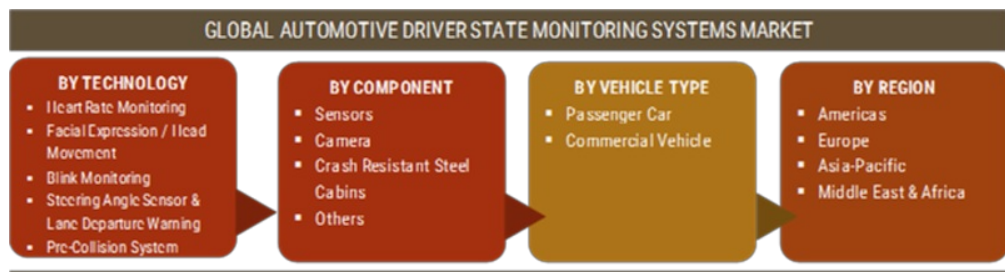
For the purpose of the study, the global automotive driver state monitoring systems market is segmented into Technology, Component, Vehicle Type, and region.

In terms of Technology, Facial Recognition/ Head Movement segment accounted for the largest market share of 31.24% in 2016, with a market value of USD 7 billion and is projected to witness a CAGR of 10% during the forecast period.

On the basis of Component, Sensors accounted for the largest market share of 41.13% in 2016, with a market value of USD 1,711.3 million and are projected to witness a CAGR of 10.66% during the forecast period.

In terms of Vehicle Type, Passenger Car segment accounted for the larger market share of 53.63% in 2016, with a market value of USD 1,932.5 million and is projected to expand at the highest CAGR of 9.60% during the forecast period.

Global Automotive Driver State Monitoring Systems Market Segmentation:



On the basis of region, the market has been segmented into the following regions, namely North America, Europe, Asia Pacific, and Middle East & Africa. In North America region, the purchasing power of people is high. Owing to this, the North America region will be the major revenue contributor in the driver state monitoring systems market. The rise in number of on-road accidents caused by driver drowsiness and distraction is also driving the market. The other factors driving the market are the growth of automotive industry, the introduction of stricter regulations, which mandate the use of electronic log devices for tracking the vehicle driving time.

A new regulation has been passed by the U.S. Federal Motor Carrier Safety Administration, which requires the fleet operators to use electronic log devices, designed specifically for recording the amount of time spent by a truck driver in driving. These regulations are setting up new standards in the automotive industry, which are intended to improve the safety of drivers and other road users. Therefore, it can be said that introduction of new regulations by the government is expected to drive the growth of the automotive driver state monitoring system over the forecast period.

Competitive Landscape

The automotive driver state monitoring systems market is witnessing intense competition, rapid advances in technology, frequent changes in government policies, and environmental regulations, as key factors that confront market growth. The vendors compete in terms of cost, product quality, reliability, and aftermarket service. It is crucial for the vendors to provide cost-efficient and high-quality driver state monitoring systems, to survive and succeed in an intensely competitive market environment.

Industry News

September 2015- Takat Holding Inc. and Seeing Machines Ltd have developed an automotive safety technology which is expected to be in the forefront of intelligent safety systems in the future. The technology allows drivers to share their attention without compromising safety.

January 2018- Seeing Machines, an industry leader, demonstrated its latest FOVIO Driver Monitoring Platform technology at the 2018 Consumer Electronics Show (CES) from January 9th through January 12th.

Hence, Global automotive driver state monitoring systems is expanding at a growth rate of 10.04% during the period 2017-2023.

Key Players

The key players of Automotive Driver State Monitoring Systems market are Aptiv (U.K), Continental AG (Germany), Tobii Technology (Sweden), Visteon Corporation (U.S.), Aisin Seiki Corporation Limited (Japan), and Denso Corporation (Japan). Ficosa International SA (Portugal), Harman International Industries Inc. (U.S.), Caterpillar Inc. (U.S.), Takata Corporation (Japan), Robert Bosch (Germany), Valeo (France), Seeing MACHINE (Australia), Edge3 (U.S.), and Xilinx (U.S.) are among others.

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