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Driver Monitoring System Market– Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Vehicle Type (Passenger Car, Commercial Vehicle), By Monitoring Type (Driver State Monitoring, Driver Health Monitoring), By Technology Type (Image Sensing, Pressure Mats, Infrared Sensing, Strain Gauges, Steering Angle Sensors, Interior Camera, Others), By Region & Competition, 2020-2030F

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Abstracts

Market Overview:

Global Driver Monitoring System Market was valued at USD 1.29 Billion in 2024 and is expected to reach USD 2.08 Billion by 2030 with a CAGR of 8.30% during the forecast period. The global driver monitoring system (DMS) market is witnessing robust momentum as automotive manufacturers integrate advanced safety technologies to address rising concerns over driver distraction, fatigue, and inattentiveness. Growth is driven by the increasing adoption of Level 2 and Level 3 autonomous vehicles that require reliable in-cabin monitoring to ensure driver readiness and engagement. For instance, the automotive industry is undergoing a significant transformation with the rise of connected vehicles. Studies indicate that by 2030, nearly all new vehicles sold around 95% will be equipped with connectivity features. Stringent regulatory frameworks mandating safety systems such as camera-based driver attention detection, particularly in premium and commercial vehicle segments, are accelerating system integration across model portfolios. Trends in the market include a shift from camera-only solutions to multi-sensor platforms incorporating infrared sensors, eye-tracking

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algorithms, and facial recognition technologies to enhance accuracy in real-time behavioral detection.

Market Drivers

Regulatory Push for In-Cabin Safety Technologies

Governments and safety authorities across the globe are introducing mandates to ensure vehicles are equipped with driver monitoring systems (DMS), particularly in light of rising incidents linked to drowsy or distracted driving. Regulatory frameworks are evolving to require technologies capable of detecting driver attentiveness and issuing alerts to reduce collision risks. This regulatory momentum is catalyzing adoption across both passenger and commercial vehicle categories. DMS is increasingly being positioned as a mandatory safety component, alongside seatbelt reminders and airbags. The scope of such mandates is expected to broaden with the advancement of autonomous driving levels, where a clear distinction between active and passive driving modes must be established. As a result, automotive OEMs are under pressure to meet these evolving compliance benchmarks, thereby fueling demand for camera-based and sensor-integrated driver monitoring systems.

Key Market Challenges

System Accuracy in Diverse Operating Conditions

A major challenge facing driver monitoring systems is maintaining consistent performance across different lighting, weather, and user behavior scenarios. Infrared cameras and facial recognition sensors can suffer from degraded performance in extreme sunlight, nighttime conditions, or when drivers wear sunglasses or masks. This limitation undermines reliability, leading to false negatives or false positives, which can diminish user trust in the system.

Key Market Trends

Expansion into Fleet and Commercial Applications

Driver monitoring systems are finding growing adoption in fleet-operated vehicles such as trucks, buses, and delivery vans, with the rising demand for commercial vehicle globally. For instance, as per the OICA production data, Global commercial vehicle production surged in 2024, reaching over 26.4 million units, marking a 10% year-on-

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year increase, as industries worldwide ramped up output to meet post-slowdown demand and infrastructure expansion. Commercial fleet operators view DMS as a tool to reduce liability, ensure regulatory compliance, and improve driver performance. These systems can track behavior like phone usage, seatbelt compliance, drowsiness, and reckless driving, allowing fleet managers to act on real-time alerts or long-term analytics. With rising fuel costs and operational risks, fleets are investing in telematics-integrated DMS to drive efficiency and safety. This trend opens a broad use-case for aftermarket DMS installations and data-driven driver scoring. This trend offers room for inclusion of fleet DMS penetration rates, accident reduction statistics, and telematics system adoption figures.

Key Market Players

Denso Corporation

Valeo S.A.

Continental AG

Robert Bosch GmbH

Delphi Automotive PLC

Visteon Corporation

Veoneer Inc

Jabil Inc.

Texas Instruments

Magna International Inc

Report Scope:

In this report, the global Driver Monitoring System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

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Driver Monitoring System Market, By Vehicle Type:

- Passenger Car
- Commercial Vehicle

Driver Monitoring System Market, By Monitoring Type:

- Driver State Monitoring
- Driver Health Monitoring

Driver Monitoring System Market, By Technology Type:

- Image Sensing
- Pressure Mats
- Infrared Sensing
- Strain Gauges
- Steering Angle Sensors
- Interior Camera
- Others

Driver Monitoring System Market, By Region:

- North America
  - United States
  - Canada
  - Mexico
- Europe & CIS

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Germany

France

U.K.

Spain

Italy

Asia-Pacific

China

Japan

India

Vietnam

South Korea

Australia

Thailand

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

South America

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Brazil

Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the global Driver Monitoring System Market.

Available Customizations:

Global Driver Monitoring System Market report with the given market data, TechSci Research offers customizations according to the company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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