

Global Automotive Event Data Recorder (EDR) Market Report and Forecast 2024-2032

Market Report | 2023-12-11 | 205 pages | EMR Inc.

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Report description:

Global Automotive Event Data Recorder (EDR) Market Report and Forecast 2024-2032

Market Outlook

According to the report by Expert Market Research (EMR), the global automotive event data recorder (EDR) market is projected to grow at a CAGR of 6.10% between 2024 and 2032. Aided by the mounting emphasis on road safety and the surge in vehicle automation, the market is expected to grow significantly by 2032.

An automotive event data recorder, commonly referred to as an EDR, is a device installed in vehicles that captures vital information moments before, during, and after a vehicular accident. This technology is akin to the "black box" found in aircraft, though tailored for automotive applications. It plays a pivotal role in accident reconstruction, insurance claims, and research related to improving vehicular safety. Besides its primary function of recording crash data, EDRs provide insights into driving patterns, thereby contributing to the development of advanced driver assistance systems (ADAS).

One of the primary accelerators for the automotive event data recorder (EDR) market growth is the increasing global focus on road safety. Governments and regulatory bodies worldwide have either already mandated the installation of EDRs in new vehicles or are actively considering it. This has resulted from a growing understanding of the role EDRs play in understanding accident dynamics, thereby informing safer vehicle design and more effective road safety regulations.

As per the automotive event data recorder (EDR) market analysis, the rapid advancements in vehicle automation and the impending reality of self-driving cars have further amplified the importance of EDRs. As vehicles become increasingly automated, the necessity for detailed performance data becomes paramount, not only for safety considerations but also for refining algorithms and systems that power autonomous vehicles.

Furthermore, insurance companies are finding immense value in EDRs. The ability to access objective data regarding an accident can streamline the claim process, provide clarity in situations of dispute, and potentially lead to more accurate insurance premium calculations based on driving behavior.

The rise in shared mobility solutions, such as ride-hailing and car-sharing services, has also added momentum to the automotive event data recorder (EDR) market growth. Operators of these platforms are keen on ensuring passenger safety and optimising

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fleet management. EDRs provide the dual benefit of improving safety protocols while also delivering insights into vehicle usage patterns.

In the realm of research and development, EDRs are proving invaluable. Universities, automotive companies, and independent researchers use the data from these devices to study various aspects of driving, from human behaviour to the effectiveness of new safety features. This research directly feeds into the development of safer vehicles and smarter traffic management solutions.

Market Segmentation

The market can be divided based on application and region.

Market Breakup by Application

- Passenger Cars
- Commercial Vehicles

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global automotive event data recorder (EDR) market. Some of the major players explored in the report by Expert Market Research are as follows:

- Veoneer Inc.
- Aptiv Plc
- Robert Bosch GmbH
- Continental Engineering Services GmbH
- DENSO Corporation
- Others

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