Since 1991 fatal road accidents have been decreasing, however the overall accident and injury counts keep increasing. It is necessary to analyze factors leading to the traffic accident and find the solution to reduce them. In 2005 the Ministry of Land, Infrastructure and Transport conducted a validation test on drive recorders which can detect accidents or near accidents and record driving data and front/rear imagery before/after accidents. The result concludes that drive recorders have three key advantages:

1. Faster accident processing,
2. Reduction of the number of accidents,
3. Reduction in fuel expenses.

It is expected that drive recorders may grow in popularity in the commercial vehicles market, then in the passenger car market to combine with car navigation/car security system.

This paper gives an overview on in-car and base equipment of the developed drive recorder and the market trends.
Introduction

1.1 Background to appearance of drive recorder

Development of the drive recorder

2.1 Pertinent issues

2.2 Development goals
Overview of the system

Main specifications

4.1 In-vehicle unit

Main specifications

<table>
<thead>
<tr>
<th>Common items</th>
<th>Car model</th>
<th>Color</th>
<th>Power supply</th>
<th>Storage capacity</th>
<th>Operating temperature</th>
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Items differing by type
4.2 Base office equipment

- 4.2.1 G sensing algorithm

5.1 G sensing algorithm

Main features
5.2 Base office application

The system is designed to interface with existing office systems. The interface allows data to be transferred from the OBVIOUS Recorder to the host office application for further processing. The system is compatible with various office applications, including spreadsheets, databases, and word processors. This compatibility ensures that the data collected by the OBVIOUS Recorder can be easily integrated into the existing office workflow.

The interface is designed to be user-friendly, allowing office staff to easily access the data collected by the OBVIOUS Recorder. The interface provides a range of options for data visualization, including graphs and charts, which can be customized to suit the needs of each individual office.

The system also includes a range of data analysis tools, which can be used to identify trends and patterns in the data collected by the OBVIOUS Recorder. This allows office staff to make informed decisions based on the data collected by the system.

Overall, the OBVIOUS Recorder is an effective tool for integrating data from a drive recorder into an office environment. The system allows data to be easily transferred from the recorder to the host office application, ensuring that the data is readily available for further processing. The interface is user-friendly, making it easy for office staff to access the data collected by the OBVIOUS Recorder. The system also includes a range of data analysis tools, which can be used to identify trends and patterns in the data collected by the OBVIOUS Recorder.
5.3 Methods of searching and saving the image data

The system provides various methods for searching and saving image data. Users can search for specific images by entering keywords or using the search bar. Images can be saved in various formats such as JPEG and PNG.

After searching, images can be saved to the user's device or to a cloud storage service for easy access from anywhere.

5.4 Changing the in-vehicle parameters

Users can customize the in-vehicle parameters to suit their needs. Options include adjusting the display brightness, selecting different languages, and configuring the input settings.

The interface is user-friendly, allowing users to easily change parameters without requiring advanced technical knowledge.
Conclusion

In this paper, we introduce the development of the Drive Recorder (OBVIOUS Recorder) and its features, which were designed to improve the safety of drivers.

The Drive Recorder (OBVIOUS Recorder) was developed to provide a comprehensive solution for vehicle data recording and analysis. It is equipped with advanced features such as automatic data recording in case of accidents and real-time data monitoring.

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