



## ***EcoAssist, Driving efficiency and sustainable mobility***



**Datik presents its new EcoAssist product at the Busworld International Bus and Coach Fair. This solution has been designed to contribute towards driving that is safer, more efficient and environmentally responsible, while reducing fuel consumption**

Aside from providing the necessary features for improving driving styles, making drivers aware of transportation's impact on nature and increasing energy efficiency, EcoAssist especially makes it possible to reduce fuel consumption and increase safety while driving.

This on-board interactive solution works with a display that is installed on the bus and provides drivers with visual alerts in real time so they can correct their driving style and minimise

fuel consumption. It is also possible to transfer data from the vehicle to iPanel, DATIK's fleet manager, where the fleet manager may analyse the KPIs and prepare action plans for reducing consumption.

The driver assistance tool is completely ergonomic thanks to visual indications. It is aimed at regular transportation and it is primarily for urban or short distance settings.

The device has been fully developed by DATIK and it can be installed in new or retrofitted vehicles, regardless of the brand.

The new product has been tested and certified by DBus, the San Sebastian Tram Company, which has introduced this system in several bus lines with the aim of reducing fuel consumption in the short-term and continuing its commitment to sustainable mobility. The results have been very satisfactory.

DBus, the company that provides public transportation services in San Sebastian, is constantly introducing new technological solutions in vehicles as well as in depots with the aim of improving urban bus services in the city. It also strives to improve the fleet on a daily basis through the use of increasingly environmentally friendly vehicles.



## ***The fatigue detector, a device already in use***

Pesa, La Unión, Autocares Moreno and Bilman Bus are the first customers to include the device known as Magic Eye – Fatigue.

Magic Eye is an advanced technological support system for minimising the risks of distractions and collisions by detecting and forecasting situations through the use of artificial vision technologies, which contributes towards more reliable driving.

This system includes the detection of pedestrians, cyclists, motorcycles, parked and moving vehicles, obstacles and traffic signals. It handles the calculation of safety distances, involuntary lane changes, speed limit notifications, and more importantly, the detection and notification of driver fatigue and distraction.



The detection and notification of driver fatigue and distraction is the most differentiating element compared to other conventional products. It monitors blinking as well as eye and head movements in order to detect anomalous actions that lead to risky reactions on behalf of the driver. If this occurs, the driver notification alarms are activated.

The system includes a camera, a processing device and an alarm that can be audio or visual, or both at the same time. Additional alert mechanisms that are more selective are currently being worked on, such as a vibrating seat so passengers are not disturbed when the alert is activated. It is easily installed and can be personalised according to each customer's needs in terms of the finish and visual alerts so it is perfectly integrated in the coach dashboard or in the fleet management platform.

It also works in reduced lighting conditions, without disturbing the driver, through the use of infrared lighting. This avoids brightness issues and also allows the system to operate when drivers are wearing lenses or glasses.

It also offers an important competitive advantage over other conventional products that are focused on only notifying the driver. It includes services for recording images as well as registering alerts or events. Information is also sent to a central unit via a web platform, making it possible to extract conclusions and manage all the information that has been gathered in order to detect any infractions that have been made, plan safer routes, and optimise driving habits.

According to the IFV, fatigue and falling asleep for one second while driving are the causes behind 20% of fatal traffic accidents (source: data from the eSafety Forum). This primarily affects industrial vehicles, whose drivers spend many hours on the road each day.

Magic Eye is a comprehensive solution that has been designed to manage fleets, save fuel and minimise the risks of distractions and collisions, resulting in driving that is safer, more efficient and reliable.



# The iPanel platform arrives in Mexico



## The iPanel will be integrated in the management systems of the Flecha Amarilla customer, the leader of the carrier sector in Mexico.

Datik has just signed a contract with the Flecha Amarilla customer in order to integrate the iPanel solution in its management systems and to offer a comprehensive tool for optimising fleet management.

The solution purchased has exclusive DCB (Datik Computing Board) and iPanel adaptations, which enables the customer to record all the data and events that occur on the journeys of its coaches and to send that information to the control centre (iPanel platform) immediately. This allows the fleet manager to have all the necessary information about the key business indicators in order to perform control and monitoring tasks, and to make the right decisions, both in real time as well as in the analysis phase for aspects related to costs, improving services and increasing productivity.

The iPanel platform also makes it possible to obtain safety, efficiency, comfort and operations management indicators, and it is a Cloud Computing solution that can be accessed from any computer with an Internet connection.

The system developed exclusively for this customer includes, in addition to the consumption meter (a system that DATIK will install on coaches for the optimisation and efficiency of fuel consumption, which is especially relevant for cost structures and especially considering the oil prices currently on the market), an innovative device for detecting fuel theft, which is a feature that is demanded by the Mexican market.

The objective of DATIK is to provide transport service operators with added value in the management of the information generated about fleets for better monitoring, control, service improvements and increased productivity.

## Flecha Amarilla

The Flecha Amarilla Group is one of the most important companies in Mexico, and it transports approximately seven million passengers each month in the sum of all the market segments it targets. It is continuously implementing technological innovations with the aim of achieving more efficient operating processes and guaranteeing improved safety and comfort for customers.

