DRIVER FATIGUE MONITORING SYSTEM

AUTOMATION CONTROLS
An ISO 9001 : 2015 Company

Driver Fatigue Monitoring System AC-14-DFMS is a Driver and Vehicle Safety Product which can accurately predict and warn for driver's sleeping in driving. It is our world patent product under advanced and unique Technology. Vehicle Drive is world pioneer in fatigue management industry.
Internally connected with GPS, to monitor the speed of Vehicle. AC-14-DFMS can be used by bus companies, mining companies, coil companies and insurance companies act all over India.

HOW DOES IT WORKS

- Despite decades of public awareness and mitigation efforts, over 70 per cent of the rural highway accidents remain single vehicle events. The greatest risk occurs during twilight and night nonetheless the AC-14-DFMS works 24/7 under all conditions including if the driver is wearing sunglasses.

- The AC-14-DFMS is installed in the vehicle not on the driver. The system is fully automatic, with no calibration or setup process required, meaning no additional driver training or changes to standard operating procedure. The AC-14-DFMS operates invisibly to the driver, and does not change or impact the driving tank in any way.

- When the infrared camera/sensors simply monitor your pupil's changing characteristics, it never sleeps blinks or takes a break, and when you start exhibiting unsafe patterns, it sounds an alarm. Moreover, because we monitor the person and not the road, it works regardless of weather or roadway conditions log, snow, rain on and off highway. Off highway includes Maritime, farming, mining etc. anywhere a helmsman or equipment operator is susceptible to fatigue.

- The AC-14-DFMS focuses entirely on the driver alertness levels or inattention to the road ahead regardless of time of day or weather conditions. Making good drivers safer because they now have positive immediate feedback that they need to act.

- The AC-14-DFMS, once deployed, can raise the driver's awareness of fatigue and distraction. Instant audio feedback is available to drivers when fatigue or distraction events are detected, but fatigue warnings are modulated such that the system cannot be abused to stay awake. Raising the awareness of fatigue and distraction though driver feedback promotes recognition of the value of sleep and which will help to reduce incidents across an organization.

FEATURES

- Works around the clock, both in the dark or the sun.
- Works with sunglasses or prescription glasses.
- Leading face recognition technology.
- Mesh membrane pupil detection technology detects open but sleepy eyes.
- In addition to fatigue driving, if the driver does not focus on driving the system will respond.
- Intelligent high-speed recognition, the system can identify when you are in an urban areas or on the expressway, the system will automatically raise the alarm sensitivity on expressway.
- Compact, easy to install, will not affect the driver's field of view
- Automatic sensitivity control, when the driver barely moves, the system will automatically raise the sensitivity. If he often turns his head, the alarm sensitivity will be automatically lowered, to reduce false alarms.
- Facial feedback indicator, the green light is on when the angle between lens and human face is proper.
- Can record and save the incidences, which can download when required.

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TECHNICAL SPECIFICATION:

Driver Fatigue Monitoring System, work in all lighting condition 24/7 Compatible with safety, prescription or Sun Glasses. Work in all whether and road condition, fog, Snow, rain, on or off highway.

Power 8-36V, 100mA@12V, 60mA@24V,
Temp. -45 Deg. C to +85 Deg. C.

INSTALLATION:

To test the right installation, sit in the normal position in the vehicle, if the green light of the camera light up is bright or flashing, indicating that the driver has between detected in opening the eyes. The distance from lens to the driver's eyes should be between 600mm -900mm. when the driver are looking at the front and the green light remain bright, indicating that AC-14-DFMS can detect the driver's eyes better. Adjust the right position of the camera where the green can keep on as far as possible. Flashing green light is normal while driver open the eyes, especially for the driver wearing rimmed spectacles.

SETTINGS:

1. **Sensitivity – Switch No. A & B**
   1A: High sensitivity
   2A: Normal sensitivity, it takes a little more time to alarm for driver's looking around.
2. **Speed – Switch No. 2A**
   1B: Static or Normal steady speed below 45 Km/Hr.
   2B: Speed exceeds 45Km/Hr.