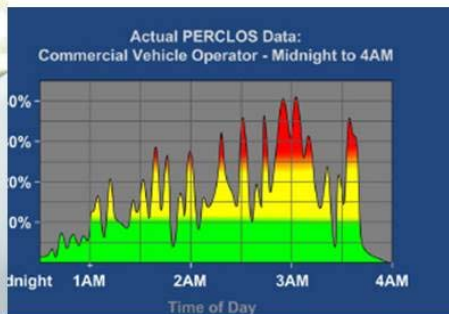


LSM TECHNOLOGIES

DRIVER FATIGUE (DISTRACTION) CAMERA (DFM)



Analysis of Fatigue level



PERCLOS Data

LSM Technologies DFM (Driver Fatigue Monitor) combines a dash mounted, infrared illuminated camera with intelligent video software to provide an easy-to-install, autonomous, turn-key solution for driver fatigue and distraction. Built-in video analytics are self-configuring and work by tracking the driver's eye lids and pupil dilation using proprietary algorithms. **LSM Technologies DFM** warns the driver with real time audible alerts when symptoms of weariness or distracted driving are recognised.

Driver Fatigue Monitoring

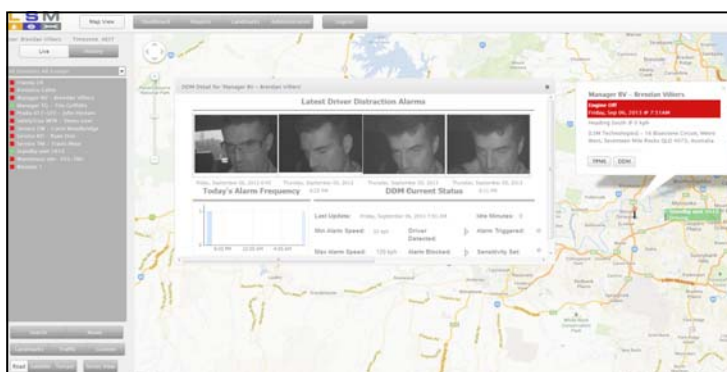
- **LSM Technologies DFM** monitors the state of a driver's wakefulness using PERCLOS (Percent Eyelid Closure) data. The camera sounds an alarm when unsafe patterns are exhibited, maintaining alertness and preventing potential accidents. **LSM Technologies DFM** automatically adapts to all cabin environments and driving conditions for constant driver protection.
- **LSM Technologies DFM** Technology is available as a Stand-alone Unit or integrated into our (or your selected) **SAFETRACS™** / Safety Asset / Fleet and Equipment Tracking Telemetry System.

Driver Distraction Monitoring

- Driver distraction is similarly monitored based upon the percentage of time his eyes are focused directly in the direction of the vehicle's travel. Each year more incidents involving distracted drivers texting, operating mobile phones, or otherwise not paying attention to the road are reported. **LSM Technologies DFM** provides direct feedback to the driver, improving his ability to make safe driving choices.

Web Based SAFETRACS™ Reporting Integration.

- **LSM Technologies DFM (Driver Fatigue Monitor)** integrates data seamlessly into our **SAFETRACS™** / Safety Asset / Fleet and Equipment Tracking Telemetry and Web Based System.
- Receive alerts immediately when a driver exhibits weary or distracted behaviour. PERCLOS data displays alongside Tyre Pressure / Temperature Monitoring, Fuel Mileage, Idle Times, and other Fleet Management data.
- DFM Event data is recorded and stored in the **SAFETRACS™** System along with a Still Video Image and / or brief Video Clip (when Telemetry Hub / GSM is connected) of the Driver Events.
- **LSM Technologies DFM** Event data can also be added to custom reports for a comprehensive analysis and reporting of vehicle / driver performance.



SAFETRACS™ Web Based event reporting / IR Image of Fatigued Driver

Date	Time	Heading/Speed	Event Type	Location	Captured Image
Thu, Sep 05, 2013	6:11 PM	North Northeast @ 101 kph	Distracted Driver Detected	Gympie Ararat Road, Shybone, Redcliffe, Queensland, 4517, Australia	
Thu, Sep 05, 2013	6:19 PM	North @ 97 kph	Distracted Driver Detected	Bruce Highway, North Lakes, Endeavour Outlook, Queensland, 4509, Australia	
Thu, Sep 05, 2013	6:25 PM	North Northwest @ 56 kph	Distracted Driver Detected	Progress Road, Burpengary, Caboolture, 4505, Australia	

SAFETRACS™ Web Based event reporting / IR Image of Fatigued Driver

SPECIFICATIONS

Operating Temperature	-7 deg C to +71 DegC
IR Illuminator	Automatic
Dimensions	134 x 87 x 64.5 mm
Weight	589.67 grams
Power	12- 36 VDC