

# LSM- CABSENSE®

## TELEMATIC MONITORING SOLUTION FOR DRIVERS + OCCUPANTS

**LSM CabSense®** is a driver and occupant behavioral monitoring device designed for fleets.

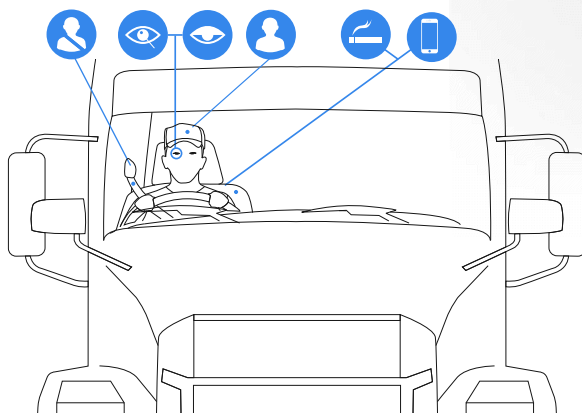
**LSM CabSense®** detects driver drowsiness, distraction, identity and dangerous actions, providing real time driver alerts, as well as tailored fleet manager alerts and insights via our **LSM- FSM® Fleet Safety Manager** server.

The underlying technology is based on **LSM Technologies** proprietary driver / occupant monitoring software which thanks to the solution's high quality, robustness and compliance meets with the demands of heavy mobile fleets.



### Detecting:

- Drowsiness
- Distraction
- Driver ID
- Holding phone
- Smoking
- Seatbelt
- Camera status
- Records / stores video + still images



### Providing the LSM- FSM® Fleet Safety Manager:

- Real-time driver alerts
- Fleet manager alerts
- Tamper proofing
- High-level driver ID
- Workforce management enhancement
- Driver scoring information
- DMS based driver supervision.
- Streams Video + Still images

## ADVANCED FLEET MANAGEMENT OFFERING

The detection of driver state, actions, driver ID and camera status enable life-saving and cost-saving features to the fleet and its drivers. In addition to the real-time alerts, further unique features were designed to serve fleets' needs, and include: camera tamper proofing, high-level driver ID, workforce management enhancement, driver scoring information, and real-time transfer of data to the customer's fleet management server using dedicated cloud middleware. The device is equipped with self-monitoring capabilities to detect tampering and other malfunctions which may have an adverse effect on its operation.

## POWERED BY CUTTING EDGE AI

LSM Technologies is a leader in computer vision AI, focusing on in-cabin sensing solutions for the automotive industry. LSM CabSense® employs proprietary computer vision algorithms, which track the driver's head pose, eyelids, and gaze direction to provide real-time assessment of the driver's drowsiness and distraction levels. Additional algorithms detect smoking, holding a phone, wearing a seatbelt and facemask in order to support fleet compliance. Facial recognition supports driver identity verification.

## THE DEVICE



**Bluetooth**  
Flexible telematics box connectivity



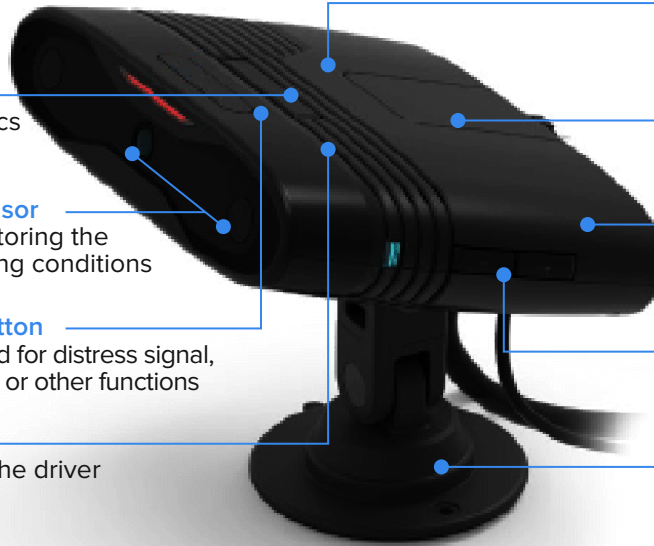
**Camera & IR sensor**  
Capable of monitoring the driver in all lighting conditions



**Configurable button**  
Can be configured for distress signal, dispute triggering or other functions



**Speaker**  
Audio alerts for the driver



**Wi-Fi**  
For convenient installation and configuration using a mobile phone or tablet



**RD232**  
For easy connection with telematics box



**LTE - Cloud**  
Flexible telematics box connectivity



**Volume button**



**Adjustable car mount**

## EASY INSTALLATION & INTEGRATION

LSM CabSense® provides easy and quick installation through a friendly installer app, and facilitates the data flow from the device to our **LSM- FSM® Fleet Safety Manager**.

### INSTALLATION

- Simple mounting on windshield or dashboard via adjustable mount.
- An IOS / Android Installer app is used for quick & easy installation and calibration.
- Enrollment of fleet drivers can be done by the installer, or triggered remotely through the LSM- FSM® Fleet Safety Manager console.

### CONNECTIVITY

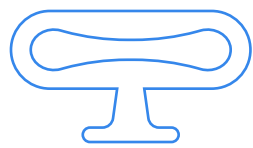
- Using cloud connectivity, direct and real-time flow of data is sent to the **LSM- FSM® Fleet Safety Manager** server.
- Easy connection to the in-vehicle **LSM- FSM® Fleet Safety Manager** telematics box using RS232, Bluetooth or Wifi.

### ALERTS & REPORTING

- Real-time audio and visual driver alerts.
- **LSM- FSM® Fleet Safety Manager** alerts (configurable).
- Real-time data flow from the Fleet Sense devices to the **LSM- FSM® Fleet Safety Manager**.
- Camera status notifications allow quick response to tampered cameras or loss of calibration.



Easy installation using App (Mobile / Tablet)



The **LSM- CabSense®** device



**LSM- CabSense®** connects to **FSM® Fleet Safety Manager** Server



Data from **LSM- CabSense®** device integrated into **FSM® Fleet Safety Manager** dashboard

## HIGHLIGHTS

### ROBUSTNESS

The underlying technology is designed to meet the safety standards and regulations automotive OEMs are facing, including Euro NCAP and the European General Safety Regulations.

### PRIVACY

All video processing is stored locally on the device. The end customer may choose whether to receive text based alerts only or include video snippets before and after an event. Under both cases, data is protected within the secured FSM® Fleet Safety Manager Server.

### TAILORED FOR FLEET OPERATION

The LSM- CabSense® Integrates seamlessly for direct communication with our FSM® Fleet Safety Manager Server. In addition, LSM- CabSense® offers an important distinction between Driver Alerts and Behavioral alerts, which are filtered to prevent overload.

### TAMPER PROOFING

**LSM- CabSense®** detects and reports loss of calibration, visual interference on camera lens, and tampering.



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