

Mobile Group

AUTOMOTIVE &
VISUAL TELEMATICS
SOLUTIONS



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Everyone informed, everyone empowered

About Mobile Group

Mobile Group Ltd. is an-Israeli based subsidiary of Rafael Advanced Defense Systems, Ltd. employing over 150 people. Most are software and hardware engineers.

Mobile Group's expertise lies in designing and delivering highly customized embedded systems for automotive, communication, and Visint (Visualization and intelligence) sectors, focusing on:

Processing and analyzing visual data in real time

Processing and analyzing HLS intelligence data

Processing and analyzing automotive vehicle data

Providing Condition based maintenance services

Mobile group uses cutting edge in-house designed modules to efficiently meet the unique requirements of our customers and partners. As a leading developer of embedded Android and Linux-based system, Mobile Group has successfully delivered creative solutions for leading automotive manufacturers around the world.

Mission and Vision

Mission

A future where industrial operations are seamlessly interconnected, highly efficient, and data-driven, empowering organizations to achieve new levels of performance, reliability, and safety through intelligent automotive and embedded systems.

Vision

To deliver tailor-made, embedded Android/Linux solutions for automotive markets.

To transform collected data into actionable intelligence, enabling predictive maintenance, real-time alerts, and deep operational insights.



Our Telematics Products



MG Vision

Adds an AI-powered visual layer to fleet telematics, using road- and driver-facing cameras with ADAS/DMS to detect risks, verify incidents, and provide video evidence for safety, compliance, and efficiency.



MG Vision Lite

is a streamlined dashcam solution with ADAS and DMS capabilities, delivering essential visual telematics and safety insights in a simpler, cost-effective package.

MG Vision ECO

Asset Protection: MG Vision and MG Vision Lite strengthen fleet security by providing visual verification of incidents. Unauthorized access, risky driving, or collisions are captured on video, ensuring both deterrence and fast resolution. This protects valuable vehicles and assets while reducing liability exposure.

Involvement: Both solutions keep all stakeholders in the loop. Drivers receive real-time ADAS and DMS feedback, dispatch sees alerts as they happen, and fleet managers can review video evidence for corrective action. By connecting driver, manager, and operations, the system ensures coordinated and effective responses.

Telematics: MG Vision adds a visual intelligence layer to traditional telematics, combining ADAS (lane departure, collision warning, tailgating) and DMS (drowsiness, distraction, phone use) with real-time video. MG Vision Lite delivers a lighter, cost-effective alternative that still supports core telematics functions, making it ideal for fleets needing scalable, camera-based safety and monitoring.

Save Money & Generate Revenue: With clear insights into driver behavior and accident circumstances, fleets reduce repair costs, insurance premiums, and downtime. At the same time, video evidence enables faster insurance claims and even opens revenue opportunities through upselling maintenance (e.g., detecting unsafe tire pressure or battery degradation).

MG Vision: the problems it solves

Mobile Group's solutions enable fleets to track vehicles in real time, spot harsh driving behaviors, and prevent unauthorized use through instant alerts. They detect early mechanical issues before they lead to breakdowns, while continuously monitoring the health and usage of every vehicle in the fleet ensuring safer operations, reduced downtime, and maximum asset protection.

Mobile Group's Telematics interfaces directly to the Controller Area Network (CAN) and provides AI-enhanced insights to detect anomalies, prevent car faults before they happen and increase the life span of the fleet.

Reporting	Capabilities - 4 Cameras
Live Video	Access live video from driver and road-facing cameras
Retrieve video-clip	Retrieve short video clips around events (incident, harsh braking, etc.)
ADAS	Pull ADAS alerts (lane departure, tailgating, collision risk)
DMS	Pull DMS alerts (eye closure, distraction, phone usage)
Behavior Score	Driver risk scoring over time
Automatic Detection	From pedestrians, traffic, signals and automatic alert to the driver
G Sensor	Measures sudden changes in motion (impact, tilt, or vibration)
Acceleration	Tracks vehicle acceleration behavior. Helps identify aggressive driving or rapid speeding.
Right & Left Corner	Detect sharp cornering, potential rollover risk, or poor road handling.
Harsh Breaking	Flags risky driver behavior or emergency responses.
ACC	Monitors ignition or power state to detect unauthorized engine use or idle time.
External Sensor (Bluetooth or Cable)	<ul style="list-style-type: none">● Temperature● Weight● Tire Pressure● On demand ...
Remote Configuration	Set thresholds for extreme events
FOTA & SOTA update	<ul style="list-style-type: none">● Improves performance, fixes bugs, adds hardware-level features● Evolves with customer needs, regulations, or AI upgrades



ADAS: Advanced Driver Assistance System



Monitors road risks

Lane drift

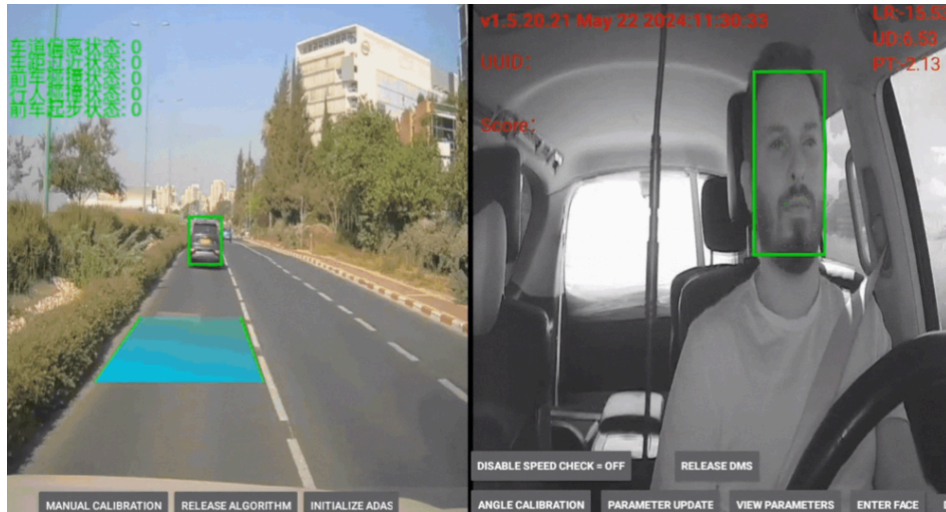
Tailgating

Collisions warning

Pedestrian danger

Identify vehicle upfront (motorcycle, bicycle, scooter, pedestrian and more)

DMS: Driver Monitoring System



Detects distraction

Fatigue & yawn

Phone use

Smoking

Eyes off the road

Live Video

Retrieve video-clip

Automatic Detection

MG Vision Lite

MG Vision Lite is a cost-effective visual telematics solution designed to bring the benefits of AI-powered driver and road monitoring to fleets of all sizes. Equipped with dual cameras, it delivers essential ADAS and DMS features, helping detect lane drift, collision risks, distraction, or drowsiness. With simplified installation, cloud connectivity, and real-time alerts, MG Vision Lite provides fleet managers with the critical insights they need to improve safety, reduce accidents, and lower operational costs, without the complexity or expense of a full-scale telematics system.



The problem it solves

Reporting

Capabilities - 2 Cameras

Download videos

Download stored video clips (event-triggered or time-based)

Events Recording

Pull event types (braking, shock, over-speed)

DMS

Basic DMS insights (phone use, eye status, head pose)

ADAS

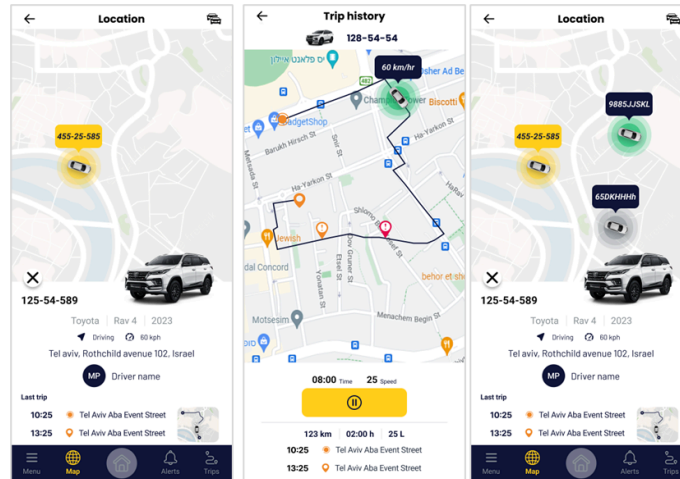
Basic ADAS insights

Event Storage

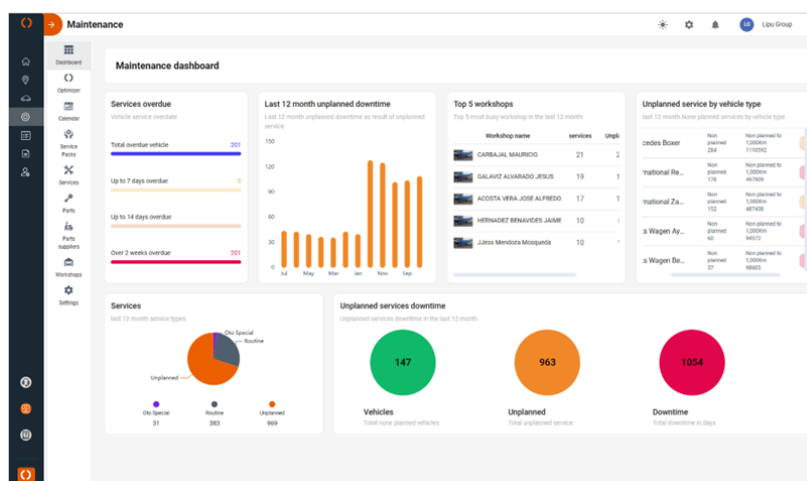
Set event recording duration, trigger type

OtoFusion: AI-Powered Maintenance Optimization

OtoFusion delivers **strategic, analytics-based insights** to the right people (**fleet managers and maintenance coordinators**)



- **Dashboard:** A clear and easy to use dashboards to get a fast understanding about the fleet maintenance status
- **Maintenance Optimizer:** The maintenance optimizer provides recommendations about the next service, with input on delaying or pulling it earlier. It also provides recommendation about Otofusion special service:
- **Work Schedule:** The Calendar provides information about the next and historical services based on routine and the maintenance optimizer outputs
- **Otofocus - Insight Center:** The "Otofocus" is an insights center module. It highlights our AI outputs for the user in an easy way, allowing them to call of action



Function	How it keeps you informed
Aggregates fleet data	Combines data from MG Connect + MG Vision + service logs
Detects failure patterns	Flags recurring issues across vehicle types, usage profiles, or driver habits
Prioritizes vehicle by risk	Ranks which vehicles need attention soonest
Optimizes service timing	Suggests windows for proactive service (dashboard & notification)
Recommends best workshop	Based on issue type, cost, and availability
Feeds dashboards with actionable metrics	Service cost trends, downtime impact, policy compliance, etc.

In a nutshell

Everyone informed, everyone empowered

Early detection of faults : cheaper fixes before failure

Safer driving – fewer accidents & lower insurance premiums

Prevents excessive brake / tire wear : **Less Maintenance Downtime**

Cuts unnecessary fuel burn & pollution fines

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